TIBETAN COMMUNITY
OF NEW YORK & NEW JERSEY

32-01 57TH STREET SITE
QUEENS, NEW YORK

CONSTRUCTION COMPLETION REPORT

NYSDEC Site Number: 241197

Prepared for:
TIBETAN COMMUNITY
OF NEW YORK & NEW JERSEY
32-01 57TH STREET,
QUEENS, NEW YORK

Prepared by:
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REVISED: APRIL 2026
By HYDRO TECH ENVIRONMENTAL ENGINEERING AND GEOLOGY, DPC

CERTIFICATIONS

I, Tarek Z Khouri, am currently a registered professional engineer licensed by the State of New York, hereby certifies this Construction Completion Report (CCR) that was initially prepared by ATANE Engineers, Architects and Land Surveyors, D.P.C. (ATANE), the previous Remedial Consultant of Record that had the direct responsibility for the implementation of the remedial program activities at this Site. I certify that information presented in this CCR as provided by ATANE and then confirmed to the extent possible by Hydro Tech Environmental Engineering and Geology DPC (HydroTech), is in conformance with the Department-approved Interim Remedial Measures Work Plan (IRMWP), and any missing information that could not be retrieved by ATANE or confirmed by HydroTech is then deemed unavailable.

I certify that the data submitted to the Department with this CCR demonstrates that the remediation requirements set forth in the IRMWP and IRMWP Addendum and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, and that such plan has been approved by the Department.

I certify that all documents generated by HydroTech in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report has been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form 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, Tarek Z. Khouri, of HydroTech, am certifying as the current Owner’s Designated site representative for the Site.

086611	04-29-2026
NYS Professional Engineer #	Date



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LIST OF ACRONYMS

Acronym	Definition
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CCR	Construction Completion Report
COC	Certificate of Completion
CQMP	Construction Quality Management Plan
EPH	Extractable Petroleum Hydrocarbon
FER	Final Engineering Report
GQS	Groundwater Quality Standards
IRM	Interim Remedial Measure
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
QEP	Qualified Environmental Professional
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
RAO	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RE	Remedial Engineer
RI	Remedial Investigation
SCG	Standards, Criteria, and Guidelines
SCO	Soil Cleanup Objectives
SMMP	Soil/Materials Management Plan
SMP	Site Management Plan
SSO	Site Safety Officer
SWPPP	Stormwater Pollution Prevention Plan
SVOCs	Semi-Volatile Organic Compounds

TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

CONSTRUCTION COMPLETION REPORT

1.0 EXECUTIVE SUMMARY

This Construction Completion Report (CCR) has been prepared on behalf of Tibetan Community of New York and New Jersey (herein referred to as the "Remedial Party" or "Respondent") to document the Interim Remedial Measures (IRM) performed at the property located at 32-05 57th Street in Woodside, Queens, New York. The work presented in this document was performed in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Interim Remedial Measures Work Plan (IRMWP) dated April 26, 2017, NYSDEC-approved IRM Addendum dated August 7, 2017 and other NYSDEC requirements in correspondences dated April 2022 and January 2025.

This CCR summarizes the IRM performed at the Site, which included the following tasks according to ATANE:

1. Excavation and disposal of non-hazardous soil for the installation of a drywell and re-pavement of asphalt parking lot in open space;
2. Installation of engineering controls that consisted of:
    - A cover system across the entire Site
    - An active sub-slab depressurization system (SSDS) across the entire building slab at the Site
    - A soil vapor extraction (SVE) System in the southeastern portion of the Site
3. Performance of post SSDS startup indoor air sampling and post SVE system startup effluent air sampling.
4. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.

The IRM described in this document is consistent with the procedures defined in New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation and Remediation (May 2010) and New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 guidance. The remedy described in this document also complies with all applicable Federal, State and local laws, regulations and requirements.

The following sections provide the details and specific information pertaining to the various components of the CCR as reviewed in the limited oversight records provided by ATANE during construction or witnessed by HydroTech following construction.

2.0 INTRODUCTION

This Construction Completion Report (CCR) has been prepared on behalf of Tibetan Community of New York and New Jersey (herein referred to as the "Remedial Party" or "Respondent") to document the Interim Remedial Measures (IRM) performed at the 0.5-acre property located at 32-01 57th Street (a.k.a. 32-02 58th Street and 57-02 - 57-12 32nd Avenue) and 32-10 58th Street in Woodside, Queens, New York and identified as Block 1159, Lots 1 and 14. This property has been classified by the New York State Department of Environmental Conservation (the "NYSDEC") as a Class P (Potential) site (Site #241197). Tibetan Community of New York and New Jersey executed an Order On Consent And Administrative Settlement (Index No. R2-20170321-111**)** with the NYSDEC on June 7, 2017 for the remediation of this Site. This CCR documents Interim Remedial Measures (IRM) completed at the Site including the excavation of non-hazardous contaminated soil, the installation, startup and operation of a sub-slab-slab depressurization system (SSDS) and a soil vapor extraction system and the performance of post startup SSDS indoor air sampling at the Site and post SVE startup effluent air sampling and the installation of a sitewide cover system.

2.1 SITE DESCRIPTION AND BACKGROUND

The Site is located at 32-01 57th Street (a.k.a. 32-02 58th Street and 57-02 - 57-12 32nd Avenue) and 32-10 58th Street in Woodside, Queens, New York and is identified as Block 1159 and Lots 1 and 14 on the New York City Tax Map. This Site is 22,500 square feet and is bounded by 32nd Avenue on the north, a 2-story commercial/industrial facility (auto parts shop, a tire repair shop, and an auto repair shop) and house of worship/community center on the southwest, a 2-story residential building on the southeast, 58th Street on the east, and 57th Street on the west. A Site Location Map is provided in Figure 1 and a Site Plan is provided in Figure 2. The boundaries of the site are fully described in the Metes and Bounds in the environmental easement in Appendix 1.

In October 2011, prior to the Tibetan Community's ownership of the Site, a Phase II Environmental Site Investigation (ESI) was prepared by AKRF, Inc. The results of the investigation indicated detections of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Soil vapor results indicated VOC detections above the New York State Department of Health (NYSDOH) guidance for tetrachloroethene (PCE) and trichloroethene (TCE) in seven (7) boring locations. Since this ESI was performed for a prospective purchaser not associated with the Tibetan Community or the prior owner of the Site, this ESI was not reasonably available to the public or the Tibetan Community prior to its purchase of the Site.

Prior to the Tibetan Community's purchase of the Site, it retained Airtek Environmental Corporation (Airtek) to perform a Phase I Environmental Site Assessment (ESA) of the Site. In March of 2012, Airtek performed an ESA of the Site, which identified the following recognized environmental conditions (RECs):

- Fuel Oil Underground Storage Tank (UST) – 1,080 Gallon which was installed in 1968 and closed in place in 1994

- Fuel Oil UST – 3,000 Gallon which is associated with NYSDEC Spill Case #0307705. There was no direct evidence of a tank leak but the tank failed tightness testing in 2003. The spill case was subsequently closed in 2004 after the tank passed tightness testing
- Subject Property is identified as Akron Hardware, Manufacturing Corporation and Forgecraft Products, Inc Hardware Manufacturing in 1950 and 1962.
- Neighborhood has significant industrial uses surrounding Subject Property. Most of these were identified as REC's by Airtek, from uses related to oil storage, automotive repair, manufacturing, sheet metal works, etc

A Phase II Subsurface Investigation performed by Airtek Environmental Corporation in May of 2012 included advancement of three soil borings in the parking lot portion of the Site and a groundwater investigation. The report identified the following findings:

- No petroleum staining in the soil cores
- No samples exceeded CP-51 for VOCs, SVOCs, pesticides, and polychlorinated biphenyls (PCBs)
- Slight metal exceedances were noted
- Results were typical of historic fill
- Groundwater was not encountered to a depth of 25 feet below grade surface (bgs)

After performing its due diligence, the Tibetan Community purchased the Site and in 2016 began preparing the Site for renovation into a cultural assembly space with offices, classrooms, and meeting spaces. In late 2016, after it had begun construction on the Site, the Tibetan Community received notification from the NYSDEC that the Site was considered a P Site (Site Number #241197) pursuant to ECL 27-1305, allegedly based on information from the Phase II Environmental Site Investigation (ESI) prepared by AKRF, Inc. in October of 2011. This information was unbeknownst to the Tibetan Community until after it had begun renovation of the building on the Site in 2016. Nevertheless, the Tibetan Community engaged environmental counsel, an environmental consultant and an environmental engineer to investigate and remediate the Site under NYSDEC's oversight. The Tibetan Community has chosen to implement this IRM pursuant to a consent order with the NYSDEC (the "Consent Order").

As part of the IRM implementation, according to ATANE, an off-site soil vapor intrusion assessment consisting of sub-slab vapor and indoor air sampling was performed during April 2017 at the southeast-adjacent property at 31-12 58th Street. Findings of this investigation indicated TCE vapors are detected sub-slab at a concentration that is marginally below the mitigate action level, which then triggered an IRM addendum to address the potential for soil vapor intrusion impact at this adjacent property.

2.2 REMEDIAL ACTION OBJECTIVES

Based on the results of the October 2011 and May 2012 Phase II Sub-Surface Investigations, the following Remedial Action Objectives (RAOs) were identified for this Site.

SOIL

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

GROUNDWATER

RAOs for Public Health Protection

- Prevent ingestion of groundwater.

SOIL VAPOR

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings on-site or off-site.

2.3 OBJECTIVE AND REMEDIAL GOAL

The objective of the IRMCCR is to document the completion of construction of interim remedial cleanup of the Site to excavate contaminated soil for the installation of an on-site stormwater drainage system and the re-pavement of parking lot and also to mitigate on-site and off-site vapor intrusion impacts of chlorinated solvents to render the Site protective to public health and the environment. The scope of work was performed based upon the April 2017 Interim Remedial Measures Work Plan (IRMWP), the August 2017 IRM Addendum and other NYSDEC correspondences dated April 2022 and January 2025. As noted in a recorded Environmental Easement, the property was remediated to meet Restricted Residential use which also allows for Commercial and Industrial use. Appendix 1 provides the Environmental Easement. Appendix 2 provides the IRMWP Addendum.

To achieve the IRM, according to ATANE, the following remedial actions were performed at the Site:

1. Excavated and properly disposed of non-hazardous soil for the installation of a drywell and stormwater retention system and pavement asphalt parking lot in open space;
2. Installation of a Sub Slab Depressurization System (SSDS) across the entire building slab at the Site to mitigate on-site soil vapor impacts;
3. Installation of a Soil Vapor Extraction (SVE) system the southeastern portion of the Site to prevent potential off-site soil vapor impact beneath the southeast-adjacent property;
4. Performance of post SSDS start-up indoor air sampling and post SVE system startup effluent air sampling
5. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.

6. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting;
7. The property may only be used for restricted residential, commercial, and industrial uses as defined in Part 375-1.8(g), subject to local zoning laws;

All portions of the fieldwork were performed in accordance with a Health & Safety Plan and at a minimum, in accordance with acceptable industry standards. These acceptable industry standards include but are not limited to NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (May 2010) and New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 guidance and other acceptable industry standards.

3.0 DESCRIPTION OF INTERIM REMEDIAL ACTIONS PERFORMED

Interim Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Remedial Measures Work Plan (IRMWP) dated April 26, 2017, NYSDEC-approved IRM Addendum dated August 7, 2017 and other NYSDEC correspondences dated April 2022 and January 2025. All deviations from the IRMWP are noted in Section 4.0.

3.1 REMEDIAL CONSTRUCTION OVERSIGHT - ACCORDING TO ATANE RECORDS

3.1.1 Site Specific Health & Safety Plan (HASP)

On-site Health and Safety monitoring was performed during the remedial excavation activities in accordance with Appendix A of the NYSDEC approved IRMWP to ensure onsite worker safety. CAMP monitoring was performed at active on-site remedial locations utilizing real-time monitoring equipment to evaluate airborne dust and volatile organic vapor concentrations. The peak and average results of this monitoring were recorded and presented in a log format to the NYSDEC in the Daily Progress Reports.

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

3.1.2 Soil/Materials Management Plan (S/MMP)

The excavation of an estimated 300 cubic yards (according to soil disposal logs via tri-axle trucks with a maximum capacity of 15 cubic yards) of soil was performed in the open parking lot in the eastern and southeastern portions of the property. The purpose of the excavation was for the removal of shallow soil from zero to 2 feet bgs across the open parking lot for re-pavement with a new asphalt cover and the installation of a drywell to be used for stormwater retention to the east of the building at the Site.

Excavated soils were temporarily stockpiled within the area of excavation in preparation for loading and off-site disposal.

Visual, olfactory and PID soil screening and assessment was performed by qualified environmental professionals during remedial excavation activities. Soil screening was performed for all remedial excavation work.

Encountered fill materials: metal and wood debris; demolition debris consisting of concrete, brick and block; and wood piles were segregated by waste stream and recycled, where feasible, or disposed as municipal waste where appropriate. Special disposal consideration applied to stained concrete and wood pilings.

Loading of trucks was monitored via real-time air monitoring equipment to document dust and organic vapor concentrations at the point of remedial excavation and truck loading. Peak and average dust and organic vapor readings were reported to NYSDEC daily during intrusive activity.

Transport of materials was performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers were appropriately licensed and trucks were properly placarded.

The approved truck transport routes for the excavated soils were utilized for off-site contaminated soil disposal. The inbound and outbound routes were selected taking into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. Emergency conditions requiring alternate transport routes for trucks containing contaminated soil were not required.

Trucks were prohibited from stopping and idling in the neighborhood outside the project Site. The egress point for truck and equipment transport from the Site was kept clean of dirt and other materials during Site remediation.

Loaded trucks were visually inspected prior to leaving the Site to ensure soils were contained inside the truck body. If noted, soil on the exterior of the trucks was removed prior to leaving the loading area. A truck wash station was not required during the remedial soil actions. The entrance and exit point of the Site was inspected daily for evidence of soil and cleaned as appropriate to ensure compliance with the requirements of the NYSDEC approved IRMWP.

Loaded vehicles leaving the Site were appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

3.1.3 Community Air Monitoring Plan (CAMP)

The CAMP was performed during invasive soil excavation activities in accordance with Appendix A of the approved IRMWP. The CAMP is a real-time perimeter air monitoring program for fugitive dust and volatile organic compounds designed to be protective of the off-site public within close proximity to the remedial action site. The CAMP included the following:

- The perimeter air monitoring program for dust and organic compounds was designed to be protective of the off-Site public within close proximity to the remedial action Site.
- The CAMP included action levels for organic vapors and particulate levels.
- The CAMP included methods for air monitoring; and
- The CAMP addressed analytes measured and instrumentation to be used.

Monitoring Approach

One upwind and one downwind perimeter monitoring stations were located at the Site during each day during which intrusive soil remedial actions were conducted. The location of these stations were determined daily, based upon site-specific wind direction measurements and the location of the active area of remediation.

During the remedial activities, a weather station was set up to provide indication of the predominant wind direction. The locations of the CAMP stations were reported to the NYSDEC Project Manager as part of the daily reports. The monitoring results were reported to the NYSDEC Project Manager and included in the Daily Reports.

Organic compounds were monitored continuously using a *MiniRAE 3000* Photoionization detector (PID) or the equivalent. Dust and other airborne particulates were measured continuously with a *TSI* Dusttrak II Aerosol Monitor 8530.

Action Levels

If ambient organic vapors were measured at greater than 5 ppm, activities were halted and monitoring continued. If the organic vapor level decreased to below 5 ppm above background, work activities resumed. If the organic vapor levels were greater than 5 ppm over background but less than 25 ppm over background at the perimeter of the work area, activities were resumed provided the organic vapor level 200 feet downwind of the perimeter of the work area, or half the distance to the nearest residential or commercial structure, whichever was less, was below 5 ppm over background.

If the organic vapor level was above 25 ppm at the perimeter of the work area, activities were to cease. If work shutdown occurred, downwind air monitoring as directed by the Safety Officer was implemented to ensure that vapor emissions did not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission section.

If any organic levels greater than 5 ppm over background were identified 200 feet downwind from the perimeter of the work area, or half the distance to the nearest residential or commercial property, whichever is less, all work activities were halted. If, following the cessation of the work activities, or as the result of an emergency, organic levels were found to persist above 5 ppm above background 200 feet downwind or half the distance to the nearest residential or commercial property from the work area, then the air quality was monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20 Foot Zone).

If the downwind airborne particulate concentration were greater than 100 micrograms/cubic meters ($\mu g/m^3$) than the background concentration, work was to cease and both the work activity and dust suppression techniques were re-evaluated to reduce further particulate dispersion. Work only was to resume after the downwind airborne particulate concentration was reduced below 100 $\mu g/m^3$ above background level and no visible dust was observed leaving the work area.

Operational Findings

During the Site remediation activities, several temporary work stoppages were necessitated by short-duration spikes in the organic concentrations immediately adjacent to the work areas However, these spikes dissipated rapidly and the CAMP action levels were not exceeded at the perimeter monitoring stations. Therefore, Site worker PPE levels remained at level D throughout the remedial activities. Based

on monitoring of vapor and dust levels, within the Site or around the Site perimeter, dust control mitigation measures were not necessary. Further discussion on CAMP is provided in Section 3.2.4 of this CCR.

3.1.4 Contractors Site Operations Plans (SOPs)

The Remediation Engineers reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the approved IRM WP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

3.2 REMEDIAL PROGRAM ELEMENTS

3.2.1 Contractors and Consultants

Contractors/Consultants	Responsibilities
ATANE (Formerly HAKS)	IRM design and certification, oversight of IRM activities (soil excavation and disposal, covers system, SSDS and SVE System installation oversight, reporting).
Enviro Drilling & Contracting	Air Monitoring, SSDS & SVE Inspections, Overseeing intrusive activity.
HydroTech	Revise and finalize the drafts of CCR and SMP prepared by ATANE and perform a round of on-site indoor air Assessment post SSDS startup.

Remedial Engineer

The Remedial Engineers for this project are Mr. Tarek Z. Khouri of HydroTech and formerly Mr. Anish Deshpande of ATANE (formerly HAKS Engineers, Architects and Land Surveyors DPC). Mr. Khouri originally oversaw the implementation of IRM activities at the project until retiring from ATANE in November 2017. Mr. Deshpande then oversaw the continued implementation of IRM activities and prepared the draft version of this CCR dated March 2019. Both Remedial Engineers are registered professional engineers licensed by the State of New York. The Remedial Engineer had primary direct responsibility for implementation of the remedial program for the Tibetan Community of New York and New Jersey (TCNYNJ) Site (NYSDEC Site No. 241197). Mr. Khouri has certified, as noted in this CCR, that remedial activities were observed by qualified environmental professionals under his supervision and that the remediation requirements set forth in the IRMWP, and any other relevant provisions of ECL 27-1419, have been achieved in substantial compliance with that plan.

The Remedial Engineers or delegated personnel coordinated the work of other contractors and subcontractors involved in all aspects of remedial construction, including soil excavation, stockpiling,

characterization, removal and disposal, air monitoring, emergency spill response services, import of back fill material, and management of waste transport and disposal. The Remedial Engineers or delegated personnel were responsible for all appropriate communication with NYSDEC and NYSDOH.

The Remedial Engineers oversaw review of all pre-remedial plans submitted by contractors for compliance with the IRMWP, as well as the performed remedial actions, which are certified in compliance with the approved IRMWP in this Construction Completion Report. The required certifications as mentioned in the approved IRMWP are provided within this CCR.

3.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors on July 11, 2017.

The IRMWP was approved by the NYSDEC on May 23, 2017. The IRMWP addendum was approved by NYSDEC on September 6, 2017. Documentation of agency approvals required by the IRMWP and other non-agency permits relating to the remediation project at the Site are included in Appendix 3.

3.2.3 General Site Controls

Site Security

Site security was provided 24 hours a day 7 day a week. Gates providing access to the Site were locked and secured at all times, except the main gate where a security guard was stationed. This gate was only locked if no site activities were being performed.

Job Site Record Keeping

Job Site field notes were maintained in dated and bound field book maintained on-Site throughout the project. The project was further documented via preparation of daily and monthly progress reports; and digital photography.

Erosion and sedimentation controls

Erosion and sedimentation controls were constructed and maintained as outlined in the Stormwater Pollution Prevention Plan (SWPPP) and included placement of hay bales and silt fencing. Erosion and sediment control measures identified in the SWPPP were routinely inspected to ensure that they were operating correctly.

Soil screening methods and results

Visual, olfactory and PID soil screening and assessment was performed by qualified environmental professionals during remedial excavation activities.

Stockpile methods

Excavated soils were temporarily stockpiled within the area of remedial excavation in preparation for loading and off-site disposal. Temporary stockpiled soil volumes were placed in accordance with the

NYSDEC approved IRMWP. Any soil not temporarily staged for off-site disposal was placed on and covered with 6 mil polyethylene sheeting. Hay bales were a contingency control for soils with excessive moisture stockpiled at surface grade.

Nuisance controls

This CCR documents the completion of the approved remedial actions including the implementation of odor, dust and other nuisance control plans and is appropriately certified, as required by NYSDEC.

Truck Wash

A truck wash station was not required to clean the tires of trucks exiting the Site. Loaded vehicles leaving the Site were appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

Dust Control Plan

A dust suppression plan was implemented at the Site. Dust monitoring was performed under the CAMP to monitor fugitive dust emissions during invasive work. The following actions were performed to ensure that dust emissions were minimized:

- Asphalt roadways were maintained on-site as long as possible to minimize soil roadways; and
- Gravel roadways were constructed on soil surfaces to minimize dust generation from truck traffic.

Odor Control Plan

The odor control plan provided for control of off-Site migration of nuisance odors. Specific odor control methods that were used on a routine basis include monitoring of odors at the Site perimeter and direct load-outs of soils to trucks for off-Site disposal. The odor controls were effective, no nuisance odors migrated off-Site, and there were no odor events that required notification to NYSDEC and NYSDOH.

Truck Routing

All vehicular traffic involved in the Site remediation activities entered and exited the Site at the corner of 32nd Avenue and 58th Street. All vehicular traffic involved in the Site remediation activities were parked on the Site and at no time were the local roadways utilized for parking. Traffic control requiring special considerations during remedial actions was not a problem.

3.2.4 CAMP Results

Air monitoring for dust particles and organic vapors was performed during all intrusive activities on-site. No detections of peak dust concentrations above the 100 µg/m3 action level occurred at the perimeter monitoring stations. No visual dust was observed during the intrusive activity. Similarly, peak organic vapor concentrations exceeding the 5.0 ppm action level were not detected through PID readings at the perimeter monitoring stations.

Based on a review of the CAMP data, the dust and organic vapor concentrations detected during field remedial activities complied with the CAMP action levels.

Copies of all available field data sheets relating to the CAMP are provided in electronic format as daily reports in Appendix 4.

3.2.5 Reporting

Daily Progress Reports were provided to the NYSDEC Case Manager via e-mail. A summary of the CAMP monitoring data was provided to the project manager daily, along with details from field personnel regarding performed remedial actions, weather conditions, field personnel, and findings, which the project manager then entered into the Daily Progress Reports for submittal to the NYSDEC Case Manager.

Monthly Progress Reports were completed by the project manager and provided to the NYSDEC Case Manager. The target submittal date for each Monthly Progress Report was the 10th of each month. The reports summarized: the remedial actions taken during each month; other site activities performed not related to the remediation; anticipated actions for the following month; changes in approved activities; sampling results; the estimated percent of completion; anticipated delays; and activities performed and anticipated under the Citizen Participation Plan (as applicable).

Six daily reports in the form of CAMP data logs with photos and trucking logs during invasive activities dated July 17, 2017, August 9, 10, 11, 18 and 21, 2017, one daily report for indoor air sampling dated October 14, 2028 and two monthly reports for SSDS and SVE startup and sampling dated September 10, 2018 and October 10, 9, 208 were saved on file by ATANE and are included in Appendix 4. The digital photo log required by the IRM is included in electronic format in Appendix 5 and it includes available photographs that cover specific IRM activities such as soil excavation and stockpiling, soil loading, SSDS pits installation, SSDS and SVE system monitoring after they were started.

3.3 CONTAMINATED MATERIALS REMOVAL

Materials removed from the Site during the remediation project included asphalt milling and non-hazardous historic fill material during the excavation of shallow soil for the re-pavement of the open parking lot area in the eastern and southeastern portions of the Site. Additional excavation was also performed in the open parking lot the east of the building at the Site for the installation of a drywell along with a stormwater retention system.

3.3.1 Waste Characterization Sampling

A waste characterization investigation was performed for ATANE (previously HAKS) in June 2017 and also in July 2017 to characterize the soil and fill material from grade surface to the depth of 2 feet bgs in the open parking area in the eastern and southeastern portions of the Site. In total, two composite samples and two grab samples were collected for soil waste characterization. The grab

samples were analyzed for VOCs. The composite samples analysis included SVOCs, total petroleum hydrocarbon (TPH), pesticides, herbicides, polychlorinated biphenyls (PCBs), TAL metals, TCLP metals, corrosivity, ignitability, pH, any filter and reactivity for cyanide and sulfide. In addition, three grab samples collected were analyzed for VOCs. This soil waste characterization exercise indicated that the shallow soil beneath the entire parking lot did not exceed the Restricted Residential Soil Cleanup Objectives (RRSCOs). In addition, available soil sampling results from the May 2012 Limited Phase II Subsurface Investigation indicates the soil was screened in three soil probes installed on the parking lot to the east of the building at the Site to the depth of approximately 18 feet bgs and three soil samples were collected from unknown depths based on PID screening that ranged between 0-10 ppm and were analyzed for VOCs, SVOCs, pesticides, PCBs, and TAL Metals. This limited investigation indicated that soil beneath the parking lot did not show evidence of contamination and also did not exceed the RRSCOs.

Based on the laboratory results of the waste characterization, two disposal facilities accepted the soil and historic fill generated at the Site to be shipped into their facilities. These facilities are identified as:

1. PPark NJ (PPark) located at 100 Planten Avenue, Prospect Park, NJ
2. Cean Earth of Carteret located at 24 Middlesex Avenue, Cartert, NJ

A copy of the soil disposal acceptance letter from the PPark listing both facilities is provided in Appendix 6 along a copy of the laboratory reports from Phoenix Environmental Laboratories, Inc. for all collected soil waste characterization samples.

3.3.2 Soil Excavation and Disposal Details

Remedial excavation was performed in the eastern and southeastern undeveloped portions of the Site for the re-pavement of an existing parking lot and the installation of drywell and stormwater retention system. Available information from ATANE as documented in the daily reports in Appendix 4, reported only the removal of asphalt milling and the shallow excavation and disposal of non-hazardous historic fill material to the depth of 2 feet bgs. The excavation for the installation of the drywell and the stormwater retention system was determined from field observations by HydroTech by identifying a trench manhole of a drywell to the east of the building and two adjacent solid manhole covers that are likely associated with the stormwater retention tank. HydroTech estimates the drywell and stormwater retention tank excavation extended to approximate depth of 8 feet bgs within an area that is approximately 8 feet wide and 16 feet long. Figure 3 provides the approximate location of the drywell and the stormwater retention system at the Site.

No records of soil screening for organic vapors during the shallow or deep excavations at the Site were provided by ATANE and no post-excavation endpoint samples were collected for laboratory analysis.

Excavated material in the parking lot area was properly characterized for disposal to the depth of 2 feet bgs. No waste characterization was performed for the soil that was excavated between 2 feet and 8 feet bgs.

Countersigned soil disposal manifests were not provided by PPark, while Clean Earth of Carteret provided countersigned manifests for 4 loads, only. Based on soil disposal information presented in the daily reports by ATANE in Appendix 4, an estimated total of 255 cubic yards (or 382.5 tons) of excavated soil waste was disposed at PPark via 17 tri-axle trucks with an estimated maximum capacity of 15 cubic yards per load. A total of 119.51 tons of excavated soil was disposed at Clean Earth of Carteret.

Table 1 provides a summary of waste disposal quantities and disposal facilities. Non-hazardous disposal manifests are included in Appendix 6.

3.5 ENGINEERING CONTROLS

Since remaining contaminated soil vapor exists beneath the Site, Engineering Controls (EC) are required to protect human health and the environment. The Site has the following primary Engineering Controls, as described in the following subsections.

1. Site Cover System
2. Sub-Slab Depressurization System (SSDS)
3. Soil Vapor Extraction (SVE) System

3.5.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a cover system placed over the Site. The parking lot has been covered with a 3-inch asphalt pavement and the build area at the Site consists of an 8-inch thick structural slab. This cover system will be subject to a Site Management Plan (SMP), which outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. The SMP will also present a protocol for annual assessment of the performance of the cover system to be reported to NYSDEC via annual periodic review reports.

Figure 3 provides the as-build layout of the cover system stamped by the remedial engineer.

3.5.2 Sub Slab Depressurization System (SSDS) Installation and Startup

In order to implement immediate remedial measures to reduce potential exposure to chlorinated solvent vapors on-site, an active Slab Depressurization System (SSDS) has been built on the Site. The system consists of four (4) suction pits that are identified as SSDS Pit 1 through SSDS Pit 4. Each pit is 24 cubic inches in dimensions. Each pit is fitted with an open ended 4-inch PVC pipes embedded with ¾-inch bluestone. The PVC pipe protruding from each pit is then connected to 4-inch diameter cast iron riser pipe. Riser pipes from SSDS Pit 1 to SSDS Pit 3 are manifolded inside basement to one riser pipe which travels through the building toward the rooftop. Individual riser pipe from SSDS Pit 4 travels the building toward the rooftop. The two SSDS riser pipes are then coupled to two RadonAway suction fans model RP145 located on the roof of the building. The two effluents of the SSDS are each terminated with a gooseneck located at least 3 feet above the roof line and 10 feet from air intakes of HVACs or from

operable windows. The four riser pipes from SSDS Pit 1 to SSDS Pit 4 are each fitted with a visible and audible vacuum monitoring/Alarm (model 28001/2) with electronic light and audio indicating loss of system vacuum or malfunctioning and a visible Dwyer Magnehelic dial type vacuum gauge (model 2100). The vacuum gauges and alarms for SSDS Pit 1 to SSDS Pit 3 are fitted inside a panel located in the southwestern portion of the basement and for SSDS Pit 4 is fitted inside a panel located in the northwestern portion of the first floor. The As-built drawings of the SSDS are included as Figure 3.

As part of the specifications of the SSDS installation, a total of five sub-slab vacuum monitoring points identified as Probe #1 to Probe #5 were installed in the basement slab of the building at the Site in accordance with the IRMWP. Each probe consisted of a small diameter (1/2") holes drilled in the existing concrete slab of the building. The purpose of these pressure probes is to verify a sufficient subsurface communication and pressure differentials by the system. A metric of -0.001 inches of water column of pressure gradient was used as the basis for determining operational effectiveness.

According to a monthly report dated October 9, 2018, the SSDS was started on September 18, 2018 with 100% applied suction from the two fans in order to maximize the suction of vapors drawn from the sub-slab. Following this system startup the organic vapor concentrations were measured at the effluents with the PID and a quantitative SSDS post startup diagnostic test was performed in accordance with the specifications in the NYSDEC-approved IRMWP. This monitoring was conducted by ATANE at the five sub-slab vacuum monitoring points Probe #1 to Probe #5 using an Extech HD755 Differential Pressure manometer. Since startup monitoring results of the SSDS could not be produced by ATANE, the same measurements were the performed by HydroTech on February 18, 2025 per NYSDEC correspondence dated January 2025. During the February 2025 SSDS monitoring event, the organic vapors were measured at the effluent from SSDS Pit 1 to SSDS Pit 3 and the effluent from SSDS Pit 4 utilizing a PID and quantitative SSDS diagnostic test was also measured at the five sub-slab vacuum monitoring points with an Extech HD755 Differential Pressure manometer. Differential pressure readings obtained from the vacuum monitoring Probe #5 located in the southeastern potion of the basement did not record any vacuum readings due to unknown reason. Per NYSDEC requirements, Probe #5 was re-installed by HydroTech on March 28, 2025 and it was relocated approximately 8 feet from its original location. The results of the SSDS monitoring performed by HydroTech are presented below:

SSDS Suction Fan : Vacuum (Inch H2O)	
SSDS-1	-1.9
SSDS-2	-1.8
SSDS-3	-1
SSDS-4	-1.9

SSDS Effluent PID (ppm)	
SSDS-1 to SSDS-3	0
SSDS-4	0
Vacuum Monitoring Points (Inch H2O or WC)	
Probe #1	-0.01
Probe #2	-0.01
Probe #3	-0.04
Probe #4	-0.4
Probe #5	-0.02

As noted above, the measured negative pressure at the sub-slab vacuum monitoring points ranged between and -0.01 WC at PT-1 and PT-2 and -0.4 WC at PT-4. This range of negative pressure achieved during the quantitative SSDS startup diagnostic testing is an indication of a good vacuum communication across the soil vapor mitigation area at the Site.

SSDS Operation & Maintenance

The SSDS installed at the Site is considered a permanent Engineering Control for the Site under current building conditions. The SSDS will not be discontinued unless prior written approval is granted by the NYSDEC. Procedures for monitoring, operating and maintaining the SSDS are provided in the Operation, Monitoring and Maintenance Plan (OM&M) provided in the SMP, and it will be implemented as prescribed below.

- The system's proper operation will be continuously monitored by TCNYNJ and by the building operator.
- Routine maintenance of the system will be required if any part of the system has failed or functioning improperly and/or the air flow is not maintained.
- Quarterly inspection of the system will be conducted under the oversight of the Remedial Engineer.
- Annual assessment and of the performance of the SSDS will be reported to NYSDEC via annual periodic review reports.

3.5.3 Soil Vapor Extraction (SVE) System Installation and Startup

In order to implement immediate remedial measures to reduce potential exposure to chlorinated solvent vapors at the southeast-adjacent residential property, an SVE system was installed in the parking lot beneath the southeastern portion of the Site.

According to draft as-build plans provided by ATANE, the SVE system consists of two SVE wells that are manifolded together through piping installed in a 24-inch wide by 12-inch deep trench excavated beneath the asphalt pavement in the parking lot that runs laterally toward the southeast footprint of the building at the Site. ATANE indicated that the two SVE wells were installed using a Geoprobe. The as-build construction of the underground portion of the SVE system could not be verified due to the presence

of asphalt pavement in the parking lot and the SVE wells were not accessible. The aboveground portion of the SVE system consists of 4-inch diameter cast iron riser pipe protruding from the ground near the southeastern corner of the building at the Site. The SVE riser pipe runs vertically on the southeastern façade of the building and is connected to a RadonAway suction fan model RP260 located above the roof parapet. The effluent from the SVE fan terminates with a gooseneck located at least 3 feet above the roof line and 10 feet from air intakes of HVACs or from operable windows. The SVE riser pipe is fitted with a visible and audible vacuum monitoring/Alarm (model 28001/2) with electronic light and audio indicating loss of system vacuum or malfunctioning and a visible Dwyer Magnehelic dial type vacuum gauge (model 2100). The SVE vacuum gauge and alarm are fitted inside a panel located on the southeastern wall of the building. The aboveground installation of the SVE system is consistent with the IRMWP Addendum. The as-built drawings of the SVE system as verified by HydroTech are included in Figure 3.

According to a monthly report dated October 9, 2018, the SVE system was started on September 18, 2018 with 100% applied suction from the RadonAway fan in order to maximize the extraction of soil vapors and prevent its migration off-site. Following the SVE system startup the organic vapor concentrations were measured by ATANE at the effluent with the PID. Since SVE startup monitoring results could not be produced by ATANE, monitoring was performed by HydroTech on February 18, 2025 at the request of NYSDEC. During the February 2025 SSDS monitoring event, the organic vapors were measured at the effluent from the SVE system utilizing a PID. The results of the SVE monitoring performed by Hydrotech are presented below:

SVE System	
Vacuum (Inch H2O)	-5
Effluent PID (ppm)	0

A post SVE system startup effluent sampling was also performed at the effluent from the SVE blower on September 19, 2018 in accordance with the IRMWP Addendum. Effluent sample was designated as SVE-1 and it was collected utilizing 6 liter pre-cleaned, passivated, evacuated whole air Summa Canister. Effluent sampling analytical results indicates three individual VOCs were detected at trace concentrations including acetone (24 ug/m^3), methylene chloride (3.8 ug/m^3), p- & m- xylenes (14 ug/m^3), and toluene (18 ug/m^3). Based on the current SVE RadonAway fan, which is specified with a relatively low flow rate, this system does not emit High Toxicity Air Contaminant (HTAC) or the potential to emit more than 0.5 lb/hr of a non-HTAC VOCs; therefore, no treatment is necessary prior to discharge at the effluent of SVE system. Table 2 provides the SVE effluent sample analytical data for SVE-1. Appendix 7 provides the SVE effluent analytical report.

SVE System Operation & Maintenance

Procedures for monitoring, operating and maintaining the Soil Vapor Extraction system are provided in the Operation and Maintenance Plan of the Site Management Plan (SMP). The OM&M Plan also

addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs. Procedures for monitoring, operating and maintaining the SVE system are provided in the Operation, Monitoring and Maintenance Plan (OM&M) provided in the SMP, and it will be implemented as prescribed below.

- The system's proper operation will be continuously monitored by TCNYNJ and by the building operator.
- Routine maintenance of the system will be required if any part of the system has failed or functioning improperly and/or the air flow is not maintained.
- Quarterly inspection of the system will be conducted under the oversight of the Remedial Engineer.
- Annual assessment and of the performance of the SVE system will be reported to NYSDEC via annual periodic review reports.

3.6 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

3.6.1 Post SSDS Startup On-Site Indoor Air Assessment

Following SSDS systems startup on September 18, 2018, on-site indoor air assessment was performed in accordance with the IRMWP around day 7 and day 30, from when the SSDS was stated. This post SSDS startup sampling was conducted on September 29, 2018 and then on October 23, 2018. The purpose of this sampling is to verify the effectiveness of the installed mitigation system at the Site by investigating the presence of potential levels of chlorinated solvents in indoor air, which were previously detected during the remedial investigation. During each round of sampling, one indoor air sample designated IA-1 was collected inside the cellar and one indoor air sample designated IA-2 was collected in the main hall of the building. Concurrently, one outdoor air sample designated as OA-1 was also collected during each round of sampling. Since no Quality Assurance/Quality Control (QA/QC) evaluation summarized in data usability summary reports (DUSRs) was performed on the ambient air data collected during 2018, a third round of ambient air sampling was performed by HydroTech on March 29, 2025 during the 2024-2025 heating season in accordance with NYSDEC requirements in correspondences dated April 2022 and January 2025.

Ambient air sampling at the Site was performed during each sampling event in accordance with the NYSDEC-approved IRMWP and the October 2006 NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The ambient air samples were collected for the duration of 8 hours. All samples were collected utilizing 6 liter pre-cleaned (as certified by the laboratory), passivated and evacuated whole air Summa® Canister and analyzed for VOCs via EPA Method TO-15. Prior to the March 2025 indoor air sampling, a pre-sampling inspection was conducted across each sampling location in accordance with the NYSDOH Indoor Air Sampling and Analysis Guidance dated February 2005. The inspection also included a product inventory of chemicals currently stored inside the buildings and a preliminary screening of indoor organic vapor concentrations utilizing PID. No evidence of petroleum

odor and no organic vapors (<0.1 ppm) were detected with the PID. The inspection identified numerous factory- sealed and used containers of household detergents. The average indoor air temperature was approximately 68 degrees Fahrenheit. The building at the Site was considered airtight during this sampling event. Appendix 8 provides copies of the New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory.

Analytical results of the indoor air investigation revealed a decreasing trend of detected PCE and TCE concentrations since the SSDS was started. Low indoor PCE concentrations ranged between 1.10 $\mu g/m^3$ and 3.6 $\mu g/m^3$ during the two rounds of sampling events in 2018 and it was only detected in IA-1 in 2025 at 0.79 $\mu g/m^3$. Similarly, low indoor TCE concentrations were detected between 0.82 $\mu g/m^3$ and 2.8 $\mu g/m^3$ during 2018 and decreased to 0.24 $\mu g/m^3$ in IA-1 and 0.14 $\mu g/m^3$ in IA-2 in the 2025 sampling event. Other chlorinated compounds concentrations were also detected in indoor air samples with a decreasing trend since SSDS startup; the most recent 2025 sampling results included carbon tetrachloride (maximum of 0.37 $\mu g/m^3$), methylene chloride (maximum of 1.8 $\mu g/m^3$), and 1,1-dichloroethylene (0.18 $\mu g/m^3$). Detected concentrations of PCE, TCE and methylene chloride in indoor air post SSDS startup did not exceeded the NYSDOH air guideline values for PCE of 30 $\mu g/m^3$, for TCE of 2 $\mu g/m^3$ and for methylene chloride of 60 $\mu g/m^3$. This finding indicates no soil vapor intrusion of chlorinated compounds is impacting the indoor air quality inside the building at the Site as a result of an efficient soil vapor intrusion mitigation by the installed SSDS and SVE systems.

Petroleum-related VOCs consisting of gasoline range hydrocarbons were also detected in all indoor air samples collected in 2018 and 2025 post SSDS startup. Gasoline VOCs detected in indoor air samples at the highest concentrations occurred mainly in the indoor air sample IA2 collected in the main hall. Gasoline VOCs detected during the 2025 sampling event included benzene (maximum 1.9 ug/m^3), toluene (maximum 38 ug/m^3), p- & m- Xylenes (maximum 44ug/m^3), o-Xylene (maximum 12 ug/m^3), ethyl benzene (maximum 14 ug/m^3) and 1,2,4-trimethylbenzene (maximum 1.8 ug/m^3). It should also be noted that gasoline compounds were also detected in outdoor air samples, which indicates a background condition in the area.

The March 2025 data was also submitted electronically to the NYSDEC through the Environmental Information Management System using the NYSDEC standardized Electronic Data Deliverable (EDD) format.

The analytical reports for the on-site ambient air samples are included in Appendix 9, and a summary of this data is provided in Table 3.

A DUSR was also prepared for the analytical results for the on-site ambient air samples results by Amine Dhamani. The results of the DUSR for analytical results indicate that the data is acceptable with minor issues in data summaries. All data was considered usable. Copies of the DUSR of on-site ambient air samples are provided in Appendix 10.

The on-site ambient air samples data was also submitted electronically to the NYSDEC through the Environmental Information Management System using the NYSDEC standardized EDD format.

3.6.2 Post SVE Startup off-Site Sub-Slab and Indoor Air Assessment

In accordance with the IRMWP Addendum, a sub-slab vapor sampling and indoor air sampling was required at the adjacent residential house located at 32-12 58th Street, 7 days following the initial SVE startup period. Access request letter was provided to adjacent property owner to perform this sampling. No response for access was received and this required sampling at the adjacent property was not performed.

3.7 IMPORTED BACKFILL

Backfill was imported to the Site as a part of the remediation project. No documentation was provided by ATANE on any backfill materials imported to Site including the stone used for SSDS and SVE system installation. However, photographs provided by ATANE showed evidence of ¾-inch bluestone stone used in SSDS pits that was apparently delivered in commercially sealed bags that are purchased at construction materials suppliers.

3.8 INSTITUTIONAL CONTROLS

The Site remedy requires that an environmental easement with a series of ICs to be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv) uses only.

Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. These ICs are:

- The property may be used for restricted residential, Commercial or industrial uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as defined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;

The environmental easement for the Site was executed by the Department on March 25, 2019, and filed with the Queens County Clerk on April 23, 2019. The County Recording Identifier number for this filing is CRFN 2019000128336. The environmental easement was then amended by the Department on April 13, 2026, and it was filed with the Queens County Clerk on April 28, 2026. The County Recording Identifier number for this amended environmental easement filing is CRFN 2026000118527. A copy of the easement is provided in Appendix 1.

4.0 DEVIATIONS FROM THE INTERIM REMEDIAL ACTION WORK PLAN

Deviations from the IRMWP and IRMWP Addendum are the following:

- A post SVE startup soil vapor intrusion assessment was required at the adjacent residential house located at 32-12 58th Street. This off-site sampling consists of collecting one sub-slab sample and one indoor air sample inside the basement at the adjacent residential home to assess the potential for soil vapor intrusion impact at this property and evaluate the performance of the SVE system. This off-site soil vapor assessment could not be performed after the SVE was started in 2019, since access permission was not obtained from this property owner in response to the access letters provided by ATANE. It should be noted this adjacent property is currently occupied by an open driveway and a new 3-story residential building.
- No documentation was provided by ATANE on any backfill materials imported to the Site including the stone used for SSDS or SVE system installation. However, photographs provided by ATANE showed evidence of ¾-inch bluestone stone used in SSDS pits that was apparently delivered in commercially sealed bags that are available at construction materials suppliers.
- During the installation of the SVE pit installation, all soil waste generated during the excavation of trenches for layout of sub-grade SVE piping required proper off-site disposal. Reuse of this excavated soil was prohibited per the IRMWP Addendum and backfilling of the trenches required certified clean fill or gravel. However, based on a communication between ATANE to NYSDEC on September 12, 2017, excavated soil during SVE installation was reused in place and was not shipped off-site for disposal. This decision was undertaken by the ATANE remedial Engineer based on the fact that the waste characterization sampling performed in the parking lot between zero and 2 feet bgs did not exceed RRSCOs. Appendix 11 provides the September 12, 2017 correspondence with NYSDEC. Appendix 6 provides the shallow soil waste characterization sampling performed at this Site.
- No records were available from ATANE for the following remedial actions:
    - Underground installations of SVE system including SVE wells, trench excavation and piping layout: Figure 3 provides the design details of the SVE wells as depicted in the NYSDEC-approved IRMWP.
    - Disposal paperwork of excavated soil for SSDS pits: Four SSDS pits were excavated beneath the basement slab in sections that are each 24 cubic inches. Figure 3 provides the section details of the SSDS pits and photographs in Appendix 5 show evidence of excavated SSDS pits.
    - Installation of a drywell and stormwater retention system in the open parking space. Field observations by HydroTech indicated the presence of a drywell to the east of the building at the Site. The drywell appears to be approximately 8 feet deep and 8 feet in diameter and is associated with a west-adjacent stormwater retention system that is approximately 8 feet wide and 16 feet long. Installation of the drywell and stormwater retention system required deep soil excavation below the 2 feet soil horizon, which was originally

characterized for waste disposal. Figure 3 provides the approximate area of the drywell and the stormwater retention system at the Site.

- Countersigned soil disposal manifests were not provided by PPark disposal facility for the soil removed from the Site for the re-pavement of parking lot and installation of drywell and stormwater retention system. According to the IRMWP, a total of 50 cubic yards of excavated soil waste was estimated during the remedial action. Based on trucking logs included in the daily reports in Appendix 4 and disposal manifests provided in Appendix 6 and summarized in Table 1, an estimated total of 255 cubic yards (or 382.5 tons) of excavated soil waste was disposed at PPark via 17 tri-axle trucks with an estimated maximum capacity of 15 cubic yards per load. Countersigned disposal manifests for 4 loads of soil shipped to Clean Earth of Carteret indicated a total of 119.51 tons of excavated soil was received at this disposal facility.

5.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

This section presents a Qualitative Human Health Exposure Assessment (QHHEA), which was conducted per NYSDEC requirements in a correspondence dated April 2022 and in accordance with Appendix 3B and Section 3.3 (b) 8 of the NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation to identify potential receptors and pathways for human exposure to the contaminant of concern (COCs) identified in soil and in soil vapors on-site and off-site, based on the results discussed in Section 2.1 of this report. The property was remediated to Restricted Residential use as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial use as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial use as described in 6 NYCRR Part 375-1.8(g)(2)(iv), subject to local zoning laws. Actual or potential human exposures to contaminated soil and soil vapor were considered in the context of a Site Conceptual Exposure Model by describing the route of potential migration of these COCs from the source to human receptor.

In this QHHEA, the October 2011 and May 2012 Phase II subsurface investigations sampling data along with the June and July 2017 waste characterization data, the soil vapor data collected during April 2017 at the southeast-adjacent property at 31-12 58th Street and the September and October 2018 and March 2025 Site indoor air sampling data was evaluated to determine whether the Site poses an existing or future health hazard to the exposed or potentially exposed population on-site and off-site by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport.

5.1 CONCEPTUAL MODEL OF SITE CONTAMINATION

On-Site Soil Contamination:

The soil collected at the Site is characterized as a typical historic fill material from zero to variable depths. The environmental soil quality beneath the Site is characterized with spot detections of petroleum constituents (trimethylbenzene, ethyl benzene) and chlorinated compounds (trichloroethene or TCE) with elevated organic vapors detected with the PID. An individual could be exposed to these contaminants through direct contact with Site soil. Since the Site soil is currently fully covered with 8-inch thick structural slab beneath the build area and a 3-inch thick asphalt pavement in open parking space, a potential contact with Site soil would occur in the event the cover system is disturbed. In order to prevent future exposure to Site soil, any disturbance to the cover system at the Site will be subject to a Site Management Plan (SMP), which includes a Soil Material Management Plan that directs the remedial and construction workers to undertake proper health and safety measures during the performance of ground intrusive activities to protect on-site workers, site visitors and passersby by performing a community air monitoring of organic vapors and particulate matter in the air along with implementing dust control measures. The Site will be covered by Institutional Controls and Engineering Controls (SMP and Environmental Easement) to minimize the potential for exposure by direct contact with contaminated soil for both the public and any future construction workers performing ground intrusive activities at the Site.

Groundwater Contamination:

Groundwater sampling was attempted beneath the southeastern corner of the Site at the depth of refusal encountered at 37 feet bgs. No groundwater was encountered across the remaining portions of the Site due to the presence of refusal that was encountered between 13.5 feet and 29 feet bgs. According to the USGS Long Island Depth to Water Viewer, groundwater is located at a depth of approximately 79 bgs. It should be noted that Groundwater is not used for drinking or other potable purposes (the area is connected to the public water supply), and there is no direct contact with or ingestion of groundwater by the general public. Furthermore, no public water supply wells are located in the area surrounding the Site. Any Individual who would perform intrusive work (i.e., utility construction and/or repairs) should not come into contact with contaminated groundwater. In addition, on-Site building is being serviced by the public water supply. Based on this, the potential for public exposure by direct contact with potentially contaminated groundwater does not exist.

On-Site and Off-Site Soil Vapor Contamination:

Chlorinated hydrocarbons including PCE and TCE were commonly detected in soil vapor samples collected throughout the Site and also off-site beneath the southeast-adjacent property. The greatest on-site PCE concentration of 7,000 $\mu g/m^3$ was detected in the southwestern portion of the building at the Site followed by 1,400 $\mu g/m^3$ detected in the central portion of the building. The greatest on-site TCE concentrations of 20,000 $\mu g/m^3$ was also detected in the central portion of the building followed by 10,000 $\mu g/m^3$ detected in the northern portion of the parking lot and 2,400 $\mu g/m^3$ and 1,200 $\mu g/m^3$ detected in across southern portion of the building. A moderate concentration of TCE of 59.2 $\mu g/m^3$ was detected in the sub-slab vapor sample collected inside the former residential building at the southeast-adjacent building at 31-12 58th Street. Individuals who enter the building at the Site for worshipping services or education services and the residents at the southeast adjacent property may be exposed to contaminated soil vapor. Since soil vapor mitigation measures including an active sub-slab depressurization system (SSDS) and active soil vapor extraction system (SVES) have been installed and operated at the Site, the potential for soil vapor intrusion impacts on-site and off-site have been reduced as it was confirmed from the on-site indoor air sampling performed after the SSDS and SVE system were started. This is evidenced by air assessment discussed in Section 3.6.1, which indicated a maximum indoor PCE and TCE concentrations of 0.79 $\mu g/m^3$ and 0.14 $\mu g/m^3$ were detected in indoor air samples collected on-site most recently in March 2025.

5.2 EXPOSURE ASSESSMENT

Five elements are considered in defining exposure pathways. Each element must be present in order for exposure pathways to be considered complete, and thus for a contaminated site to pose a risk to human health or the environment. These elements are as follows:

1. Source of contamination;
2. Contaminant transport mechanism from the source, through any environmental medium (groundwater, air);

3. People who may be exposed to contamination (receptor population);
4. Point of exposure; and
5. An exposure route or routes for contaminants to be taken in by the receptor (e.g., through dermal contact, ingestion and/or inhalation).

These elements of an exposure pathway may be based on past, present, or future events. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future.

5.3 EXPOSURE ROUTE

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

1. Ingestion of water, fill, and/or soil;
2. Inhalation of vapors and/or particulates;
3. and Dermal contact with water, fill, and/or soil.

5.4 POTENTIAL RECEPTORS

The Site currently consists of a 1-story house of worship/community service center with an open parking lot surrounded by a metal fence and a locked access gate. The Site is fully capped with a concrete slab beneath the build area and asphalt pavement in the parking the lot. The area immediately surrounding the Site is predominantly residential, commercial and industrial in nature and is anticipated to remain as such. The Site is located along the northern front of New York City tax Block 1159 and is bounded on the north by 32nd Avenue, on the west by 57th Street, on the southwest by a 2-story commercial/industrial facility (auto parts shop, a tire repair shop, and an auto repair shop) and house of worship/community center, on the southeast by a 3-story residential building, and on the east by 58th Street. The results of the sensitive receptor database search indicate there one residence located within 320 feet upgradient to the east of the Site and a day care facility and a charter school located within 660 feet crossgradient to the northeast. Based upon a review of google maps and Zola maps no other sensitive receptors including schools, day care, hospitals, rivers or streams were identified within the search distance of 0.25 miles (1,320 feet) from the Site.

On-Site Receptors:

The Site is currently developed with a 1-story house of worship/community service center. The existing and future on-site receptors will include adult and children, employees, and visitors.

Off-Site Receptors:

Potential off-site receptors within a 0.25-mile radius of the Site include adult and child residents, commercial and industrial workers, students, pedestrians, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Building Construction/Renovation (up to 0.25 mile) – existing and future
4. Pedestrians, Trespassers, Cyclists (up to 0.25 mile) – existing and future
5. Schools (up to 0.25 mile) – existing and future
6. Community (up to 0.25 mile) – existing and future

5.5 HUMAN HEALTH EXPOSURE EVALUATION

This section presents an evaluation of whether there are existing or exposure pathways as the Site.

On-Site Existing and Future Conditions: The historic and recent findings discussed in this CCR suggest a Site-wide soil contamination associated with the presence of historic fill material impacted with levels of petroleum constituents (trimethylbenzene, ethyl benzene), chlorinated compounds (TCE) and PAHs below the Restricted Residential SCOs. Chlorinated compounds including PCE and TCE were detected in soil vapors beneath the Site. Under current or future Site condition, potential exposure to impacted soil through dermal contact or ingestion route of exposure is unlikely in the presence of a structural slab beneath the build and an asphalt pavement in open parking space, which will be maintained in accordance with NYSDEC-approved SMP. Groundwater use at the Site is not considered an option because groundwater in this area of New York City is not used as a potable water source. Inhalation of contaminants in indoor air is unlikely since soil vapor intrusion impact on-site has been mitigated via a soil vapor mitigation system consisting of SSDS. This SSDS will be operated and maintained accordance with NYSDEC-approved SMP. Therefore, no current or future exposure pathways from contaminants exist at the Site.

Off-Site Existing and Future Conditions: As noted above, moderate off-site TCE concentrations in sub-slab vapors were identified beneath the basement slab of a former residential building located in the immediate southeastern vicinity of the Site. A soil vapor extraction system addressing the sub-slab TCE concentrations has been installed and started beneath the southeastern portion of the Site and like the SSDS, this SVE system will be operated and maintained accordance with NYSDEC-approved SMP. Under conditions that an SSDS and SVE system have been installed beneath the Site, off-site soil vapors should not represent a risk of soil vapor intrusion at the south-adjacent buildings. Although potential soil vapor impact inside the southwest-adjacent commercial/industrial/house of worship/community center building is unknown, it is unlikely that such impact exists now or in the future since this facility includes auto repair services, which typically involve the use of PCE and TCE.

5.6 OVERALL HUMAN HEALTH EXPOSURE ASSESSMENT

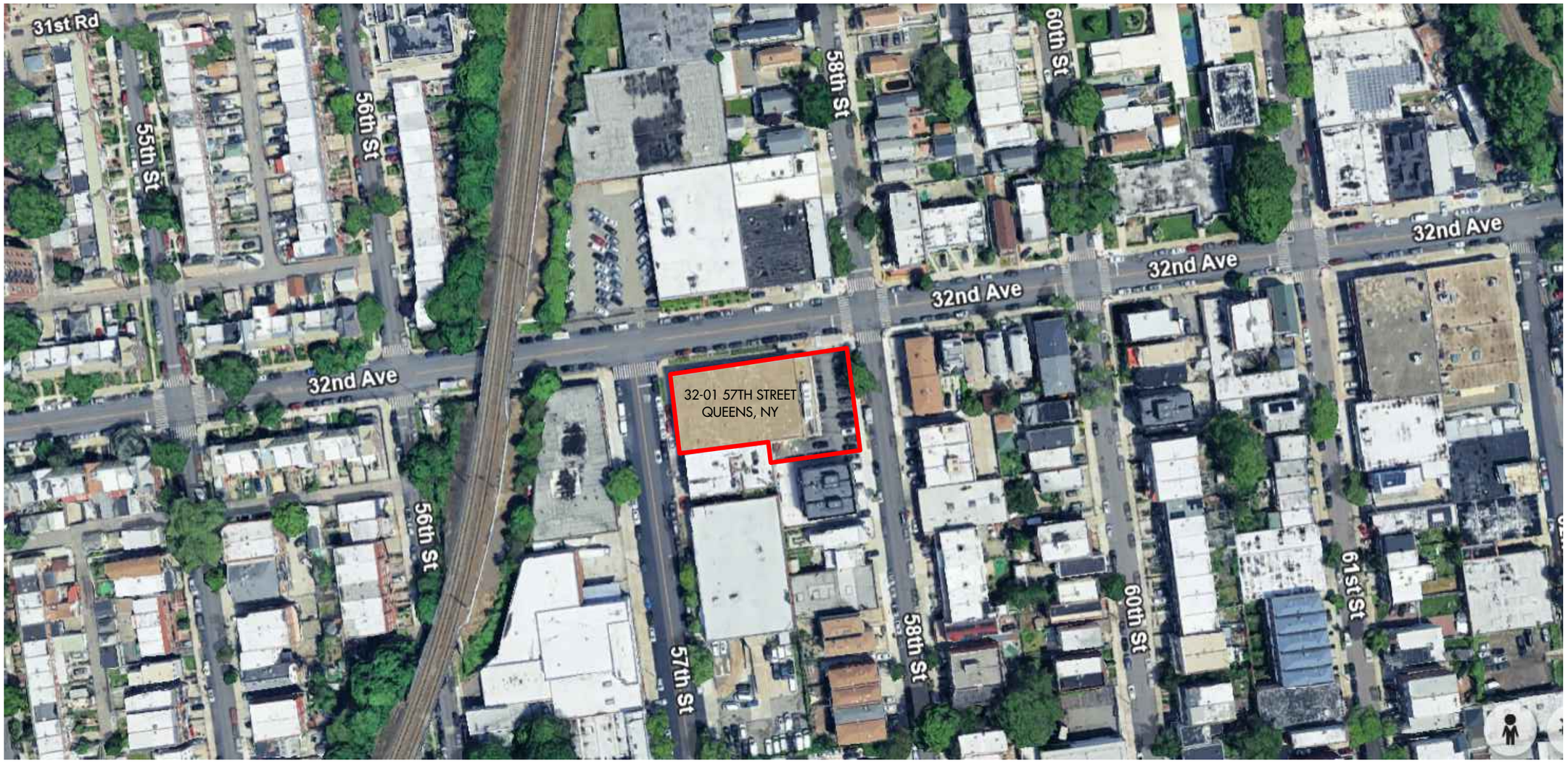
Based upon this analysis, a complete on-site exposure pathway does not appear to be present during the current remediated phase of the project. The Site currently consists of a developed parcel with a 1-

story house of worship/community service center with an asphalt paved parking lot and an SSDS and an SVE system are currently operating at the Site as permanent engineering controls. At present time, ingestion, inhalation, or dermal contact with contaminants via soil/fill, groundwater, and/or soil vapor is not a concern. In the event the cover system at the Site is altered for any reasons, on-site exposure pathways will be eliminated by preventing access to the Site, through implementation of soil/materials management, stormwater pollution prevention, dust controls, employment of a community air monitoring plan, and implementation of a Construction Health and Safety Plan. This assessment takes into consideration the reasonably anticipated use of the Site, which includes restricted residential, commercial or industrial uses. Potential use of groundwater is not considered an option because groundwater in this area of New York City is not used as a potable water source. There are no surface waters in close proximity to the Site that could be impacted or threatened. There are no remaining exposure pathways to on-Site contaminants, and the active SSDS, SVE system and composite concrete building slab will interrupt the potential for soil vapor intrusion into the new building.

5.7 FISH & WILDLIFE REMEDIAL IMPACT ANALYSIS

NYSDEC DER-10 requires an on-site and off-site Fish and Wildlife Resources Impact Analysis (FWRIA). However, based on the requirements stipulated in Section 3.10 -Appendix 3C of DER-10, there was no need to prepare an FWRIA for this Site. A completed form of DER-10 Appendix 3C is enclosed in this RIR as Appendix 12.

FIGURES



N

0 200

APPROXIMATE SCALE IN FEET

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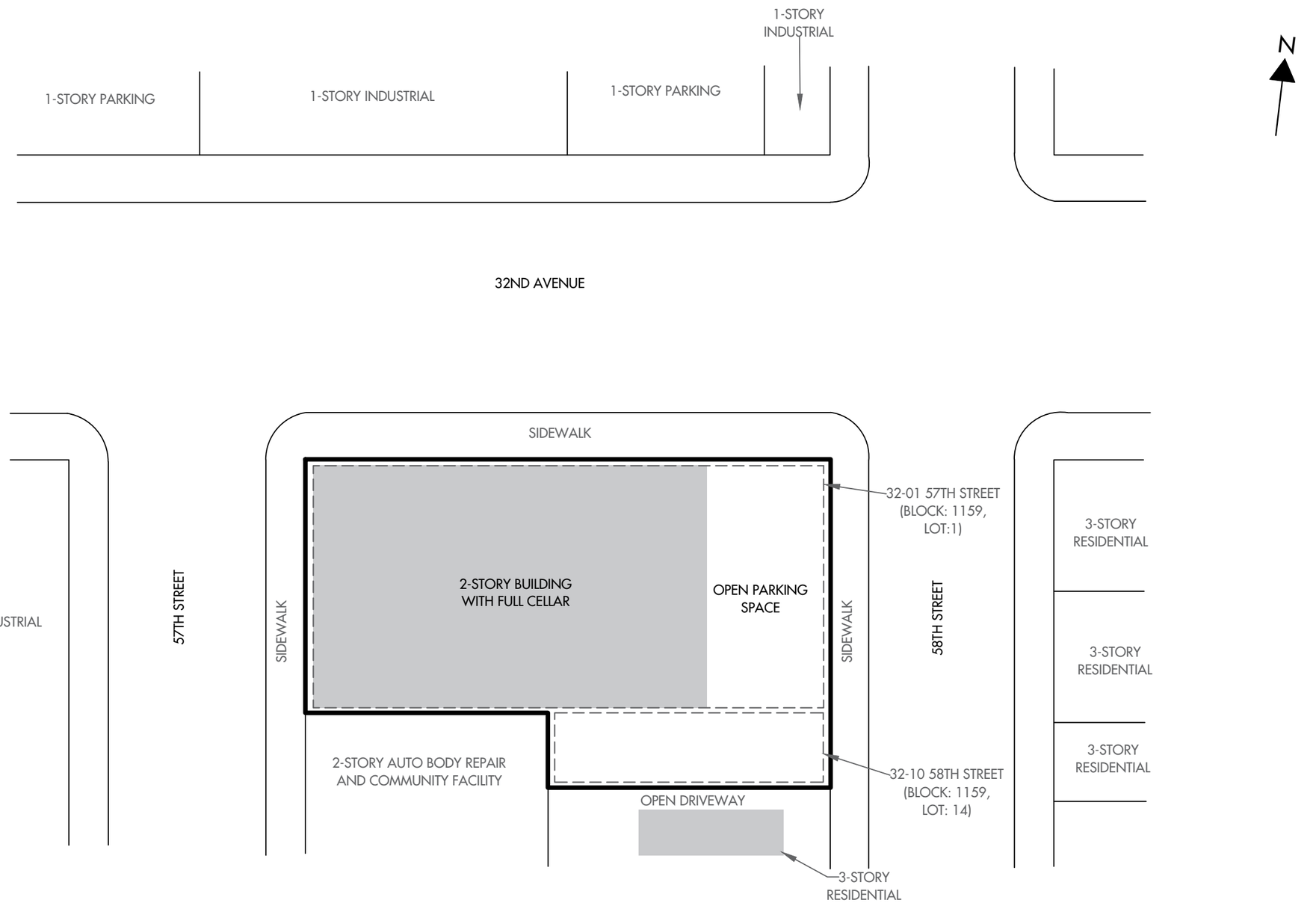
PROJECT NAME AND ADDRESS

32-01 57TH STREET, QUEENS, NY

PROJECT FIGURE

FIGURE 1: SITE LOCATION MAP

PROJECT NO.	DATE
240047	04/24/25
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) AS NOTED	APPROVED BY P.M.



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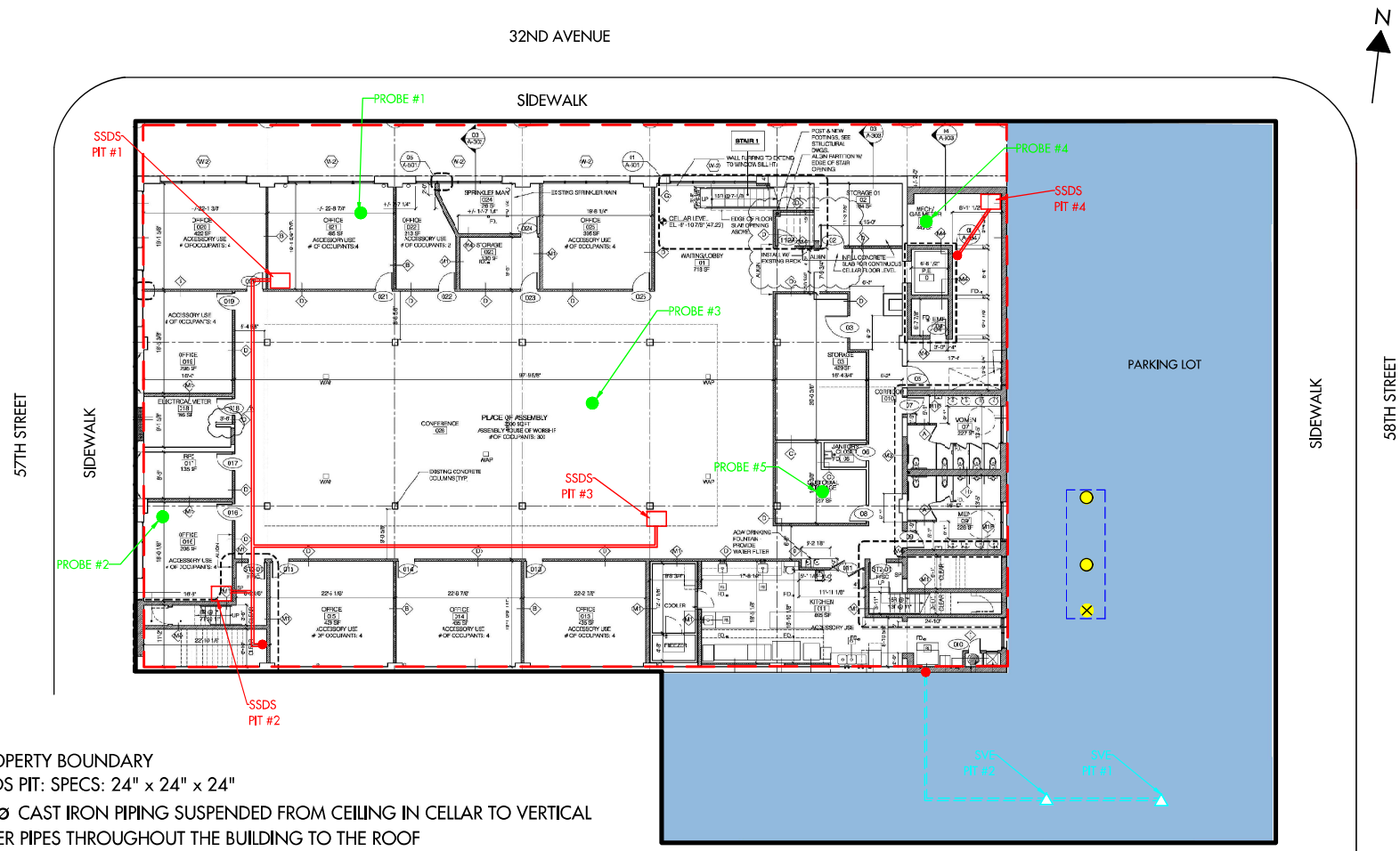
PROJECT NAME AND ADDRESS

32-01 57TH STREET, QUEENS, NY

PROJECT FIGURE

FIGURE 2: SITE PLAN

PROJECT NO.	DATE
240047	04/24/25
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) AS NOTED	APPROVED BY P.M.



LEGEND:

- PROPERTY BOUNDARY
- SSDS PIT: SPECS: 24" x 24" x 24"
- 4" Ø CAST IRON PIPING SUSPENDED FROM CEILING IN CELLAR TO VERTICAL RISER PIPES THROUGHOUT THE BUILDING TO THE ROOF
- RISER TO ROOF
- VACUUM MONITORING PROBE
- TRENCH MANHOLE COVER OF DRYWELL
- MANHOLE COVER
- APPROXIMATE FOOTPRINT OF INSTALLED DRYWELL AND STORM WATER RETENTION SYSTEM
- SVE WELL - UNCONFIRMED AS-BUILD*
- UNDERGROUND SVE PIPING - UNCONFIRMED AS-BUILD*

*AS-BUILD DESIGN COULD NOT BE CONFIRMED DUE TO THE LACK OF DOCUMENTATION OF INSTALLATION PER PROPOSED SVE DESIGN

- 3" ASPHALT PAVEMENT (TYPICAL AT PARKING LOTS)
- 8" BASEMENT SLAB AS CONFIRMED BY HYDROTECH DURING THE INSTALLATION OF VACUUM MONITORING PROBE #5

0 30

APPROXIMATE SCALE IN FEET

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BASE DRAWING PREPARED BY

NANDINEE PHOOKAN ARCHITECTS PC

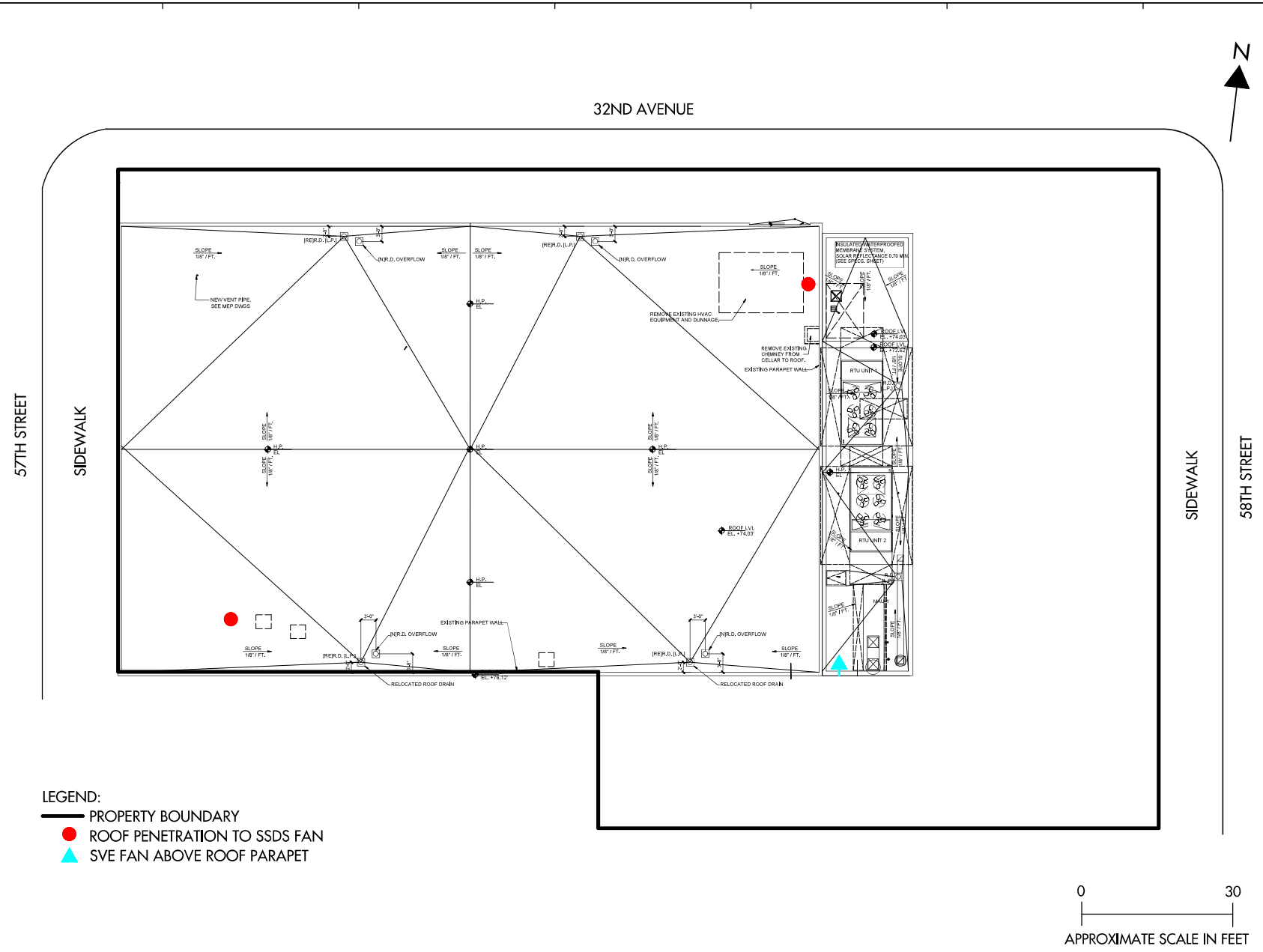
PROJECT NAME AND ADDRESS

32-01 57TH STREET, QUEENS, NY

PROJECT FIGURE

FIGURE 3A: AS-BUILD DRAWINGS OF COVER SYSTEM, SSDS AND SVE SYSTEM - CELLAR AND GROUND LEVEL PLAN VIEW

PROJECT NO.	DATE
240047	04/24/25
DRAWN BY	REVIEWED BY
A.S.	P.M.
SCALE (11X17)	APPROVED BY
AS NOTED	P.M.



LEGEND:

- PROPERTY BOUNDARY
- ROOF PENETRATION TO SSDS FAN
- SVE FAN ABOVE ROOF PARAPET

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NANDINEE PHOOKAN ARCHITECTS PC

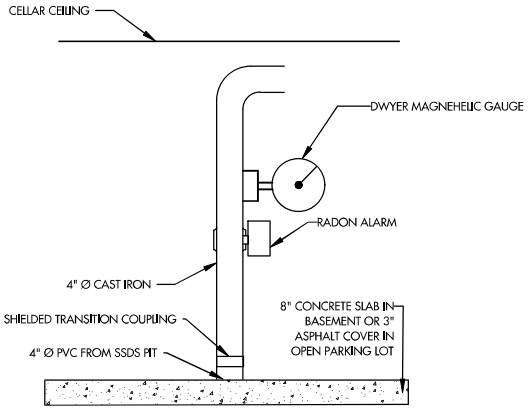
PROJECT NAME AND ADDRESS

32-01 57TH STREET, QUEENS, NY

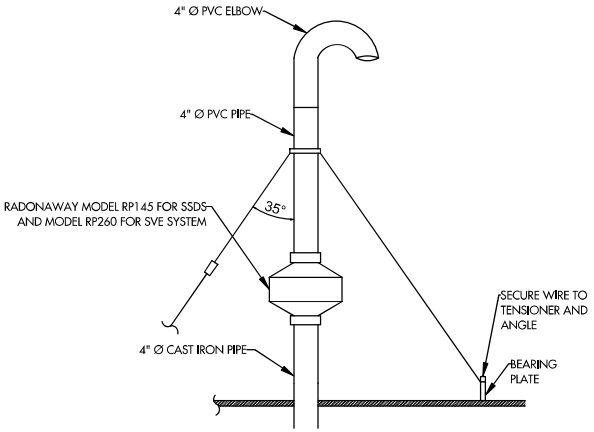
PROJECT FIGURE

FIGURE 3B: AS-BUILD DRAWINGS OF COVER SYSTEM, SSDS AND SVE SYSTEM - ROOF VIEW

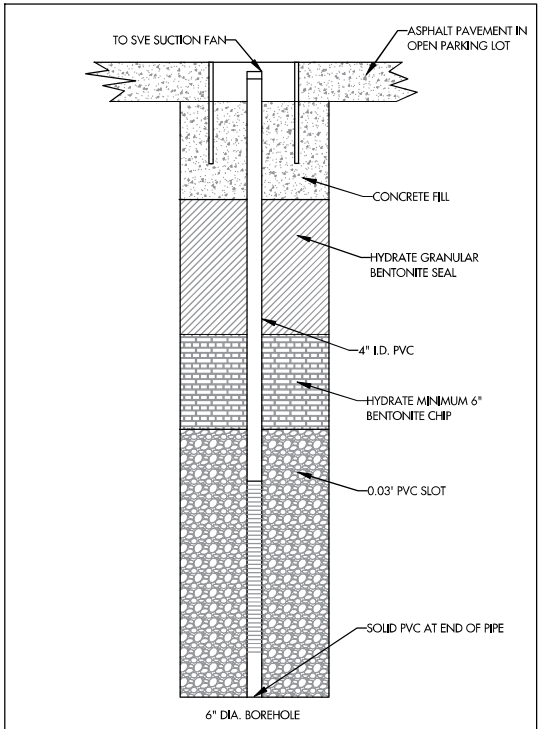
PROJECT NO. 250001	DATE 04/28/25
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) AS NOTED	APPROVED BY P.M.



SSDS VENT RISER AT CELLAR/SVE RISER AT GRADE LEVEL IN PARKING LOT

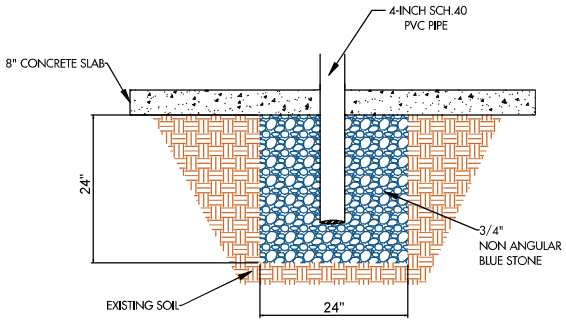


SSDS/SVE VENT RISER AT ROOF FOR SSDS OR ROOF PARAPET FOR SVE SYSTEM

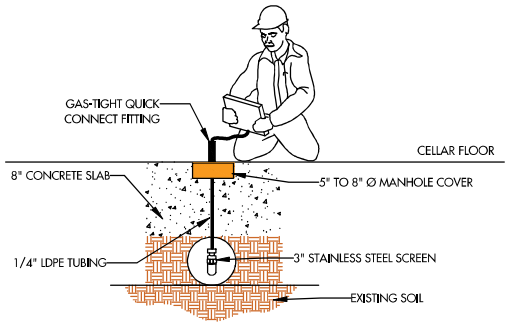


SVE WELL ID	SCREENED INTERVAL	WELL SCREEN DIA.
SVE-1	10' - 15'	0.03'
SVE-2	10' - 15'	0.03'

SOIL VAPOR EXTRACTION WELL (SVE WELL DESIGN DETAILS ADOPTED FROM IRM WP) AS-BUILD DESIGN COULD NOT BE CONFIRMED DUE TO THE LACK OF DOCUMENTATION OF INSTALLATION PER PROPOSED SVE DESIGN



SSDS PITS



SSDS PRESSURE MONITORING POINT

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BASE DRAWING PREPARED BY

PROJECT NAME AND ADDRESS

32-01 57TH STREET, QUEENS, NY

PROJECT FIGURE

FIGURE 3C: AS-BUILD DRAWUNGS OF COVER SYSTEM, SSDS AND SVE SYSTEM-SECTIONS VIEW

PROJECT NO.	DATE
240047	04/24/25
DRAWN BY A.S.	REVIEWED BY P.M.
SCALE (11X17) AS NOTED	APPROVED BY P.M.

TABLES

Table 1
Summary of Waste Disposal Quantities and Disposal Facilities
32-01 57th Street. Queens, NY 11377

Date	Truck	Plate	Manifest	Manifest Countersigned Copy	On-site Location	Facility	Tonnage
8/9/2017	Shirley Express LLC	AP494Y	1299211	N	2'	PPark	_
8/10/2017	JC Transport	AS319F	1299212	N	1'	PPark	_
8/10/2017	JC Transport	AT384Y	1299213	N	1'	PPark	_
8/10/2017	JC Transport	AS319F	1299214	N	1'	PPark	_
8/10/2017	JC Transport	AT384Y	1299215	N	1'	PPark	_
8/11/2017	JC Transport	AT779U	1299499	Y	WC-1 (0'-2')	Clean Earth of Carteret	31.98
8/11/2017	JC Transport	AT778U	1299500	Y	WC-1 (0'-2')	Clean Earth of Carteret	30.80
8/11/2017	JC Transport	AT778U	1299501	Y	WC-1 (0'-2')	Clean Earth of Carteret	27.97
8/11/2017	JC Transport	AT779U	1299504	Y	WC-1 (0'-2')	Clean Earth of Carteret	28.76
8/18/2017	JDC Trucking	AS710D	1524874	N	WC-1 (0'-2')	PPark	_
8/18/2017	JDC Trucking	AS813M	1524875	N	WC-1 (0'-2')	PPark	_
8/18/2017	JDC Trucking	AT437T	1523908	N	WC-1 (0'-2')	PPark	_
8/18/2017	JDC Trucking	AT116L	1523909	N	WC-1 (0'-2')	PPark	_
8/18/2017	JDC Trucking	AS710D	1299216	N	WC-1 (0'-2')	PPark	_
8/18/2017	JDC Trucking	AS813M	1523911	N	WC-1 (0'-2')	PPark	_
8/21/2017	RLS Transport	AS806Y	939213	N	WC-1 (0'-2')	PPark	_
8/21/2017	Shirley Express LLC	AP752U	939214	N	WC-1 (0'-2')	PPark	_
8/21/2017	RLS Transport	AS806Y	1295343	N	WC-1 (0'-2')	PPark	_
8/21/2017	Shirley Express LLC	AP752U	1295844	N	WC-1 (0'-2')	PPark	_
8/21/2017	JDC Trucking	AT116L	1434796	N	WC-1 (0'-2')	PPark	_
8/21/2017	JDC Trucking	AT437T	1434797	N	WC-1 (0'-2')	PPark	_
Total							119.51

Table 2
SVE Effluent Sample Analytical Results
32-05 67th Street, Queens NY

Sample ID	SVE-1	
Sampling Date	9/19/2018	
Client Matrix	Soil Vapor	
Compound	Results	Q
Units	ug/m^3	
1,1,1,2-Tetrachloroethane	1.40	U
1,1,1-Trichloroethane	1.10	U
1,1,2,2-Tetrachloroethane	1.40	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.60	U
1,1,2-Trichloroethane	1.10	U
1,1-Dichloroethane	0.83	U
1,1-Dichloroethylene	0.20	U
1,2,4-Trichlorobenzene	1.50	U
1,2,4-Trimethylbenzene	1	U
1,2-Dibromoethane	1.60	U
1,2-Dichlorobenzene	1.20	U
1,2-Dichloroethane	0.83	U
1,2-Dichloropropane	0.94	U
1,2-Dichlorotetrafluoroethane	1.40	U
1,3,5-Trimethylbenzene	1	U
1,3-Butadiene	1.40	U
1,3-Dichlorobenzene	1.20	U
1,3-Dichloropropane	0.94	U
1,4-Dichlorobenzene	1.20	U
1,4-Dioxane	1.50	U
2-Butanone	0.60	U
2-Hexanone	1.70	U
3-Chloropropene	3.20	U
4-Methyl-2-pentanone	0.84	U
Acetone	**24**	**D**
Acrylonitrile	0.44	U
Benzene	0.65	U
Benzyl chloride	1.10	U
Bromodichloromethane	1.40	U
Bromoform	2.10	U
Bromomethane	0.79	U
Carbon disulfide	0.64	U
Carbon tetrachloride	0.32	U
Chlorobenzene	0.94	U
Chloroethane	0.54	U
Chloroform	1	U
Chloromethane	0.42	U
cis-1,2-Dichloroethylene	0.20	U
cis-1,3-Dichloropropylene	0.93	U
Cyclohexane	0.70	U
Dibromochloromethane	1.70	U
Dichlorodifluoromethane	1	U
Ethyl acetate	1.50	U
Ethyl Benzene	0.89	U
Hexachlorobutadiene	2.20	U
Isopropanol	1	U
Methyl Methacrylate	0.84	U
Methyl tert-butyl ether (MTBE)	0.74	U
Methylene chloride	**3.80**	D
n-Heptane	0.84	U
n-Hexane	0.72	U
o-Xylene	0.89	U
p- & m- Xylenes	**14**	**D**
p-Ethyltoluene	1	U
Propylene	0.35	U
Styrene	0.87	U
Tetrachloroethylene	0.35	U
Tetrahydrofuran	1.20	U
Toluene	**18**	**D**
trans-1,2-Dichloroethylene	0.81	U
trans-1,3-Dichloropropylene	0.93	U
Trichloroethylene	0.27	U
Trichlorofluoromethane (Freon 11)	1.10	U
Vinyl acetate	0.72	U
Vinyl bromide	0.89	U
Vinyl Chloride	0.13	U

NOTES:
Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated

Table 3
Post-SSDS Statup On-Site Ambient Air Samples Analytical Results
32-05 67th Street, Queens NY

Sample ID	IA-1 (Cellar)						IA2 (Main Hall)						OA1 (Outdoor)					
Sampling Date	9/29/2018		10/23/2018		3/28/2025		9/29/2018		10/23/2018		3/28/2025		9/29/2018		10/23/2018		3/28/2025	
Client Matrix	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Outdoor Air		Outdoor Air		Outdoor Air	
Units	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	0.630	U	0.540	U	0.620	U	0.580	U	0.650	U	0.580	U	0.630	U	0.580	U	0.740	U
1,1,1-Trichloroethane	0.500	U	0.430	U	0.490	U	0.460	U	0.520	U	0.460	U	0.500	U	0.460	U	0.590	U
1,1,2,2-Tetrachloroethane	0.630	U	0.540	U	0.620	U	0.580	U	0.650	U	0.580	U	0.630	U	0.580	U	0.740	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	**0.92**	D	0.600	U	0.690	U	0.650	U	0.730	U	0.650	U	0.710	U	0.650	U	0.830	U
1,1,2-Trichloroethane	0.500	U	0.430	U	0.490	U	0.460	U	0.520	U	0.460	U	0.500	U	0.460	U	0.590	U
1,1-Dichloroethane	0.370	U	0.320	U	0.360	U	0.340	U	0.390	U	0.340	U	0.370	U	0.340	U	0.440	U
1,1-Dichloroethylene	**0.18**	D	0.0780	U	0.0890	U	0.0840	U	0.0940	U	0.0840	U	0.0910	U	0.0840	U	0.110	U
1,2,4-Trichlorobenzene	**4.60**	D	0.590	U	0.670	U	0.630	U	0.710	U	0.630	U	0.680	U	0.630	U	0.800	U
1,2,4-Trimethylbenzene	**13**	D	**5.50**	D	**1.50**	D	**13**	D	**11**	D	**1.80**	D	**2**	D	**1.40**	D	0.530	U
1,2-Dibromoethane	0.710	U	0.610	U	0.690	U	0.650	U	0.730	U	0.650	U	0.710	U	0.650	U	0.830	U
1,2-Dichlorobenzene	**0.83**	D	0.470	U	0.540	U	0.510	U	0.570	U	0.510	U	0.550	U	0.510	U	0.650	U
1,2-Dichloroethane	**1.10**	D	**0.510**	D	0.360	U	**0.550**	D	0.390	U	0.340	U	0.370	U	0.340	U	0.440	U
1,2-Dichloropropane	0.430	U	0.360	U	0.420	U	0.390	U	0.440	U	0.390	U	0.430	U	0.390	U	0.500	U
1,2-Dichlorotetrafluoroethane	0.640	U	0.550	U	0.630	U	0.590	U	0.67	U	0.590	U	0.640	U	0.590	U	0.760	U
1,3,5-Trimethylbenzene	**4.20**	D	**1.90**	D	**0.53**	D	**4.90**	D	**4.20**	D	**0.71**	D	**0.68**	D	**0.42**	D	0.530	U
1,3-Butadiene	0.61	U	0.520	U	0.600	U	0.560	U	0.630	U	0.560	U	0.610	U	0.560	U	0.720	U
1,3-Dichlorobenzene	**0.66**	D	0.470	U	0.540	U	0.510	U	0.570	U	0.510	U	0.550	U	0.510	U	0.650	U
1,3-Dichloropropane	0.430	U	0.360	U	0.420	U	0.390	U	0.440	U	0.390	U	0.430	U	0.390	U	0.500	U
1,4-Dichlorobenzene	**1.60**	D	0.470	U	0.540	U	0.510	U	**0.920**	D	0.510	U	0.550	U	0.510	U	0.650	U
1,4-Dioxane	0.660	U	0.570	U	0.650	U	0.610	U	0.690	U	0.610	U	0.660	U	0.610	U	0.780	U
2,2,4-Trimethylpentane	NT		NT		0.210	U	NT		NT		0.200	U	NT		NT		0.250	U
2-Butanone	**17**	BD	**8.40**	D	**18**	D	**34**	BD	**23**	D	**37**	D	**4.50**	BD	**2**	D	**12**	D
2-Hexanone	**0.87**	D	0.650	U	0.740	U	**0.94**	D	**1.40**	D	0.700	U	0.750	U	0.700	U	0.890	U
3-Chloropropene	1.400	U	1.200	U	1.400	U	1.300	U	1.50	U	1.300	U	1.400	U	1.300	U	1.700	U
4-Methyl-2-pentanone	**1.90**	D	**0.71**	D	**7.20**	D	**4.40**	D	**1.80**	D	**16**	D	**0.49**	D	**0.45**	D	**2.80**	D
Acetone	**130**	D	**68**	D	**52**	D	**160**	D	**160**	D	**85**	D	**18**	BD	**31**	D	**21**	D
Acrylonitrile	0.200	U	0.170	U	2.500	U	0.180	U	0.210	U	2.400	U	0.20	U	0.180	U	3.100	U
Benzene	**1.70**	D	**1.10**	D	**1.60**	D	**1.70**	D	**1.90**	D	**1.20**	D	**0.82**	D	**0.79**	D	**0.66**	D
Benzyl chloride	0.480	U	0.410	U	0.470	U	0.440	U	0.490	U	0.440	U	0.480	U	0.440	U	0.560	U
Bromodichloromethane	0.620	U	0.530	U	0.600	U	0.570	U	0.640	U	0.570	U	0.620	U	0.570	U	0.730	U
Bromoform	0.950	U	0.810	U	0.930	U	0.880	U	0.990	U	0.880	U	0.950	U	0.880	U	1.100	U
Bromomethane	0.360	U	0.310	U	0.350	U	0.330	U	0.370	U	**0.56**	D	0.360	U	0.330	U	0.420	U
Carbon disulfide	**0.60**	D	0.250	U	0.280	U	1.40	D	0.300	U	0.270	U	0.290	U	0.260	U	0.340	U
Carbon tetrachloride	**0.75**	D	**0.50**	D	**0.34**	D	**0.48**	D	**0.48**	D	**0.37**	D	**0.46**	D	**0.43**	D	**0.34**	D
Chlorobenzene	0.420	U	0.360	U	0.410	U	0.39	U	0.440	U	0.390	U	0.420	U	0.390	U	0.500	U
Chloroethane	0.240	U	0.210	U	0.240	U	0.220	U	0.250	U	0.220	U	0.240	U	0.220	U	0.290	U
Chloroform	**0.94**	D	0.380	U	0.440	U	0.420	U	0.470	U	0.420	U	0.450	U	0.420	U	0.530	U
Chloromethane	**1.50**	D	**1.30**	D	**1.30**	D	**1**	D	0.200	U	**1.30**	D	0.190	U	0.180	U	**1.30**	D
cis-1,2-Dichloroethylene	**0.18**	D	0.0780	U	0.0890	U	0.0840	U	0.0940	U	0.0840	U	0.0910	U	0.0840	U	0.110	U
cis-1,3-Dichloropropylene	0.420	U	0.360	U	0.410	U	0.390	U	0.430	U	0.390	U	0.420	U	0.390	U	0.490	U
Cyclohexane	**1.10**	D	**0.76**	D	**0.37**	D	**1.50**	D	**3.80**	D	**0.47**	D	**0.35**	D	**0.59**	D	0.370	U
Dibromochloromethane	0.780	U	0.670	U	**0.77**	U	0.720	U	0.810	U	0.720	U	0.780	U	0.720	U	0.920	U
Dichlorodifluoromethane	**1.80**	D	1.60	D	**2.50**	D	**1.60**	D	**1.50**	D	**2.40**	D	**1.70**	D	1.600	D	**2.40**	D
Ethyl acetate	**2.50**	D	**1.40**	D	**19**	D	**3.10**	D	**2.80**	D	**13**	D	**1.50**	D	1.100	D	**5.50**	D
Ethyl Benzene	**9.20**	D	**4.30**	D	**5.80**	D	**15**	D	**13**	D	**14**	D	**2**	D	**1.90**	D	**3.40**	D
Hexachlorobutadiene	**1.80**	D	0.840	U	0.960	U	0.910	U	1	U	0.910	U	0.980	U	0.910	U	1.200	U
Isopropanol	**12**	D	7.100	D	**9.70**	D	**13**	D	**12**	D	**9.80**	D	**3**	D	**3**	D	**4.70**	D
Methyl Methacrylate	**1.40**	D	**0.55**	D	0.370	U	**0.80**	D	**0.90**	D	0.350	U	0.380	U	**1.70**	D	0.440	U
Methyl tert-butyl ether (MTBE)	0.330	U	0.280	U	0.320	U	0.31	U	0.340	U	0.310	U	0.330	U	0.310	U	0.390	U
Methylene chloride	**9.40**	D	**5.80**	D	**1.90**	J	**6.30**	D	**8.30**	D	**1.80**	J	**4.80**	D	**8.40**	D	**2.30**	J
Naphthalene	NT		NT		0.940	U	NT		NT		0.890	U	NT		NT		1.100	U
n-Heptane	**12**	D	**7.30**	D	**2.80**	D	**22**	D	**35**	D	**4.60**	D	**3**	D	**4.50**	D	**0.80**	D
n-Hexane	**2.40**	D	**1.30**	D	**1.30**	D	**4.50**	D	**3.30**	D	**1.70**	D	**1.10**	D	**1.50**	D	**0.57**	D
o-Xylene	**11**	D	**5.60**	D	**5.50**	D	**16**	D	**16**	D	**12**	D	**2.10**	D	**2.20**	D	**3.30**	D
p- & m- Xylenes	**36**	D	**18**	D	**21**	D	**53**	D	**52**	D	**44**	D	**7.10**	D	**7.70**	D	**12**	D
p-Ethyltoluene	**9.60**	D	**4.30**	D	**1.20**	D	**10**	D	**11**	D	**1.60**	D	**2**	D	**1.50**	D	0.530	U
Propylene	**2.10**	D	**1.30**	D	0.150	U	**2**	D	**2.50**	D	0.150	U	**0.74**	D	**0.78**	D	0.190	U
Styrene	**8.50**	D	**5.70**	D	0.380	U	**9.60**	D	**10**	D	0.360	U	**0.90**	D	**1.20**	D	0.460	U
Tetrachloroethylene	**2.50**	D	**1.10**	D	**0.79**	D	**3.60**	D	**1.80**	D	0.580	U	**1**	D	**0.87**	D	0.740	U
Tetrahydrofuran	**0.65**	D	**0.49**	D	0.530	U	**1.50**	D	**1.70**	D	0.500	U	**0.57**	D	0.500	U	0.640	U
Toluene	**40**	D	**46**	D	**24**	D	**93**	D	**170**	D	**38**	D	**12**	D	**21**	D	**7.20**	D
trans-1,2-Dichloroethylene	0.360	U	0.310	U	0.360	U	0.340	U	0.380	U	0.340	U	0.360	U	0.340	U	0.430	U
trans-1,3-Dichloropropylene	0.420	U	0.360	U	0.410	U	0.390	U	0.430	U	0.390	U	0.420	U	0.390	U	0.490	U
Trichloroethylene	**2.80**	D	**1.30**	D	**0.24**	D	**1.80**	D	**0.82**	D	**0.14**	D	**0.120**	U	0.110	U	0.150	U
Trichlorofluoromethane (Freon 11)	**1.80**	D	**1.60**	D	**1.30**	D	1.500	D	**1.70**	D	**1.20**	D	**1.40**	D	**1.30**	D	**1.30**	D
Vinyl acetate	0.320	U	0.280	U	0.320	U	0.300	U	0.340	U	0.300	U	0.320	U	0.300	U	0.380	U
Vinyl bromide	0.400	U	0.340	U	0.390	U	0.370	U	0.420	U	0.370	U	0.400	U	0.370	U	0.470	U
Vinyl Chloride	0.0590	U	0.0500	U	0.120	U	0.0540	U	0.0610	U	0.110	U	0.0590	U	0.0540	U	0.140	U

NOTES:
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
NT=this indicates the analyte was not a target for this sample
Bolded indicates concentration is greater than MDL

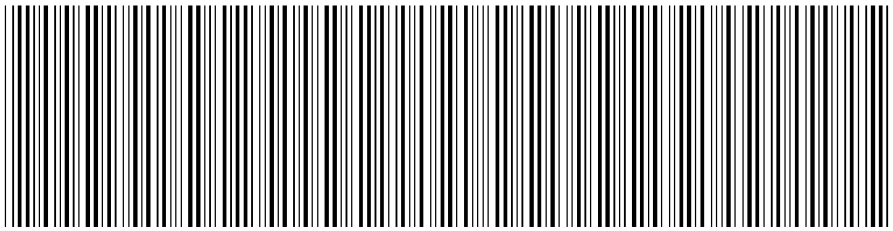
APPENDICES

APPENDIX 1

ENVIRONMENTAL EASEMENT

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



2019041200825001001EB89A

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 10**

Document ID: 2019041200825001 Document Date: 03-25-2019 Preparation Date: 04-12-2019
Document Type: EASEMENT
Document Page Count: 9

PRESENTER:
CHICAGO TITLE INSURANCE CO. (PICK-UP)
711 THIRD AVE, 5TH FLOOR
CT19-80050-Q (CES)
NEW YORK, NY 10017
212-880-1200
CTINYRECORDING@CTT.COM

RETURN TO:
BROWN DUKE & FOGEL, P.C.
ATTN: GEORGE DUKE, ESQ.
350 FIFTH AVENUE, SUITE 4640
NEW YORK, NY 10118

PROPERTY DATA

Borough	Block	Lot	Unit	Address
QUEENS	1159	1	Entire Lot	32-01 57TH STREET

Property Type: OTHER Easement

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
TIBETAN COMMUNITY OF NEW YORK AND NEW JERSEY, INC.
32-01 57TH STREET
WOODSIDE, NY 11377

GRANTEE/BUYER:
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NY 12207-2942

FEES AND TAXES

Mortgage :

Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	82.00
Affidavit Fee:	$	0.00

Filing Fee: $ 100.00

NYC Real Property Transfer Tax: $ 0.00

NYS Real Estate Transfer Tax: $ 0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 04-23-2019 10:03
City Register File No.(CRFN): **2019000128336**

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made as of this 25th day of March, 2019, between Owner(s) The Tibetan Community of New York and New Jersey, Inc., having an office at 241 East 32nd Street, New York, New York 10016 (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 32-01 57th Street in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 1159 Lot 1, being a portion of the property conveyed to Grantor by deed dated October 12, 2012 and recorded in the City Register of the City of New York as CRFN # 2013000033405. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.45914 +/- acres, and is hereinafter more fully described in the Land Title Survey dated June 19, 2018 and last revised October 3, 2018 prepared by Frank I. Galluzzo, P.L.S. of Empire State Land Surveyor, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this 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 this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: R2-20170321-111, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) 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;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation

pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 241197
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail

and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

The Tibetan Community of New York and New Jersey, Inc.:

By: Sonam D. Gyephel

Print Name: SONAM D. GYEPHEL

Title: PRESIDENT Date: 3/12/2019

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF QUEENS)

On the 12 day of MARCH, in the year 2019, before me, the undersigned, personally appeared SONAM GYEPHEL, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Notary Public - State of New York

MARGHERITA LOSA GIVNEY
NOTARY PUBLIC-STATE OF NEW YORK
No. 01GI6205464
Qualified In Queens County
My Commission Expires 05-11-2021

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 25th day of March, in the year 2019, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 32ND AVENUE WITH THE WESTERLY SIDE OF 58TH STREET;

RUNNING THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF 58TH STREET 100.00 FEET TO A POINT;

THENCE WESTERLY AND AT RIGHT ANGLES 200.00 FEET TO A POINT;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 57TH STREET 100.00

FEET TO THE SOUTHERLY SIDE OF 32ND AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 32ND AVENUE 200.00 FEET TO THE POINT OR PLACE OF BEGINNING.

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2026042400873001002E40EA

RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 4**

Document ID: 2026042400873001 Document Date: 03-11-2026 Preparation Date: 04-27-2026
Document Type: EASEMENT
Document Page Count: 3

PRESENTER:
FOX ROTHSCHILD LLP
101 PARK AVENUE
17TH FLOOR
NEW YORK, NY 10178
347-284-8144
SAR@QUALITYCLOSINGSLLC.COM

RETURN TO:
FOX ROTHSCHILD LLP
101 PARK AVENUE
17TH FLOOR
NEW YORK, NY 10178

PROPERTY DATA

Borough	Block	Lot		Unit	Address
QUEENS	1159	1	Entire Lot		32-01 57 STREET

Property Type: OTHER

Borough	Block	Lot		Unit	Address
QUEENS	1159	14	Entire Lot		N/A 58 STREET

Property Type: OTHER

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
THE PEOPLE OF THE STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL
CONSERVATION, 625 BROADWAY
ALBANY, NY 12233

GRANTEE/BUYER:
THE TIBETAN COMMUNITY OF NEW YORK AND
NEW JERSEY, INC., 241 EAST 32ND STREET
NEW YORK, NY 10016

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	55.00
Affidavit Fee:	$	0.00

Filing Fee:	$	0.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 04-28-2026 11:11
City Register File No.(CRFN): **2026000118527**

City Register Official Signature

AMENDMENT TO ENVIRONMENTAL EASEMENT

This Amendment to Environmental Easement is made as of this 13th day of April 2026 by and between The People of the State of New York, acting through their Commissioner of the Department of Environmental Conservation ("NYSDEC" or the "Department") with its headquarters located at 625 Broadway, Albany, New York 12233, and The Tibetan Community of New York and New Jersey, Inc. ("Grantor") with its offices located at 241 East 32nd Street, New York, NY 10016.

RECITALS

1. Grantor is the owner of certain land known and designated on the tax map of the City of New York, County of Queens and State of New York as tax map parcel number: Block 1159, Lot 1 & 14, being the property conveyed to Grantor by deed dated October 12, 2012 and recorded in the City Register of the City of New York as CRFN # 2013000033405.

2. The Department and Grantor entered into that certain Environmental Easement ("Easement Agreement") dated as of March 25, 2019 and recorded in the City Register of the City of New York on April 23, 2019 as CRFN # 2019000128336. Capitalized terms used herein without definition have the meanings ascribed to them in the Environmental Easement Agreement.

3. Pursuant to Sections 1, 2, 3, 4, and 5 of the Easement Agreement, Grantor granted the Department rights and interests that run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of the Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of certain maintenance, monitoring or operation requirements; and to ensure the potential restriction of future uses of the land that are inconsistent with the stated purpose.

4. Pursuant to Section 2 A of the Easement Agreement, the Controlled Property may only be used for Restricted-Residential, Commercial and Industrial uses described in 6 NYCRR 375-1.8(g) and may only be used consistent with controls set out in that Section 2 A of the Easement Agreement.

5. The Easement Agreement dated March 25, 2019, erroneously neglected to include tax lot 14 in the 4th WHEREAS paragraph and the lot 14 legal description from the Schedule A.

6. This Amendment to Environmental Easement is filed solely in order to correct a mutual mistake between the Department and Grantor relating to the failure to include tax lot 14 in that Environmental Easement dated as of March 25, 2019 and recorded in the City Register of the City of New York on April 23, 2019 as CRFN # 2019000128336.

7. Pursuant to Section 8 of the Easement Agreement, the Department agrees to amend the Easement Agreement in the manner prescribed by Article 9 of the Real Property Law.

AMENDMENT OF ENVIRONMENTAL EASEMENT

A. The above recitals are hereby incorporated into this Amendment of Environmental Easement.

B. The Department and Grantor hereby agree that the 4th Whereas clause of the Environmental Easement is hereby amended to read as follows:

WHEREAS, Grantor, is the owner of real property located at the address of 32-01 57th Street in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 1159, Lots 1 **and 14**, being the property conveyed to Grantor by deed dated October 12, 2012 and recorded in the City Register of the City of New York as CRFN # 2013000033405. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately **0.51653** +/- acres, and is hereinafter more fully described in the Land Title Survey dated June 19, 2018 and last revised

November 28, 2025, prepared by Frank I. Galluzzo, P.L.S. of Empire State Land Surveyor, P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

C. The Department and Grantor hereby agree that the metes and bounds description of the Controlled Property attached hereto as "Schedule "A" – Amended Description of Controlled Property" shall replace the original metes and bounds description attached as Schedule "A" to the March 25 2019 Environmental Easement.

D. All other terms of the March 25, 2019 Environmental Easement shall remain in effect.

E. This Amendment of Environmental Easement inures to and binds the parties hereto and their respective successors and assigns.

F. This Amendment of Environmental Easement shall be governed by and interpreted in accordance with the laws of the State of New York.

□

IN WITNESS WHEREOF, Grantor has caused this Amendment to Environmental Easement to be signed in its name.

The Tibetan Community of New York and New Jersey, Inc.

By: _____

Print Name: Kelsang Tsering

Title:_____ Date: 3/11/26

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Queens)

On the 11th day of Mar., in the year 2026 before me, the undersigned, personally appeared Kelsang Tsering personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Sheikh Akram Uddin
Notary Public State of New York
Reg. No. 01UD6025769
Qualified In Queens County
Commission Expires June 01 2027

Sheikh Akram Uddin

_____
Notary Public - State of New York

□

THIS AMENDMENT OF THE ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 13 day of April, in the year 2026 before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Public - State of New York

Cheryl A. Salem
Notary Public State of New York
Registration No. 01SA0002177
Qualified in Albany County
My Commission Expires March 3, 2027

SCHEDULE "A" AMENDED DESCRIPTION OF CONTROLLED PROPERTY

ENVIRONMENTAL EASEMENT DESCRIPTION
Block 1159, Lots 1 and 14

TAX LOT 1

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 32ND AVENUE WITH THE WESTERLY SIDE OF 58TH STREET;
RUNNING THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF 58TH STREET 100.00 FEET TO A POINT;

THENCE WESTERLY AND AT RIGHT ANGLES 200.00 FEET TO A POINT;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 57TH STREET 100.00 FEET TO THE SOUTHERLY SIDE OF 32ND AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 32ND AVENUE 200.00 FEET TO THE POINT OR PLACE OF BEGINNING.

LOT AREA = 20,000.00 SQ.FT. = 0.45914 ACRES.

TAX LOT 14

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WESTERLY SIDE OF 58TH STREET, DISTANT 100.00 FEET SOUTHERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE WESTERLY SIDE OF 58TH STREET AND THE SOUTHERLY SIDE OF 32ND AVENUE;

RUNNING THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 32ND AVENUE, 100 FEET TO A POINT;
THENCE SOUTHERLY AND PARALLEL WITH THE WESTERLY SIDE OF 58TH STREET, 25.00 FEET TO A POINT;

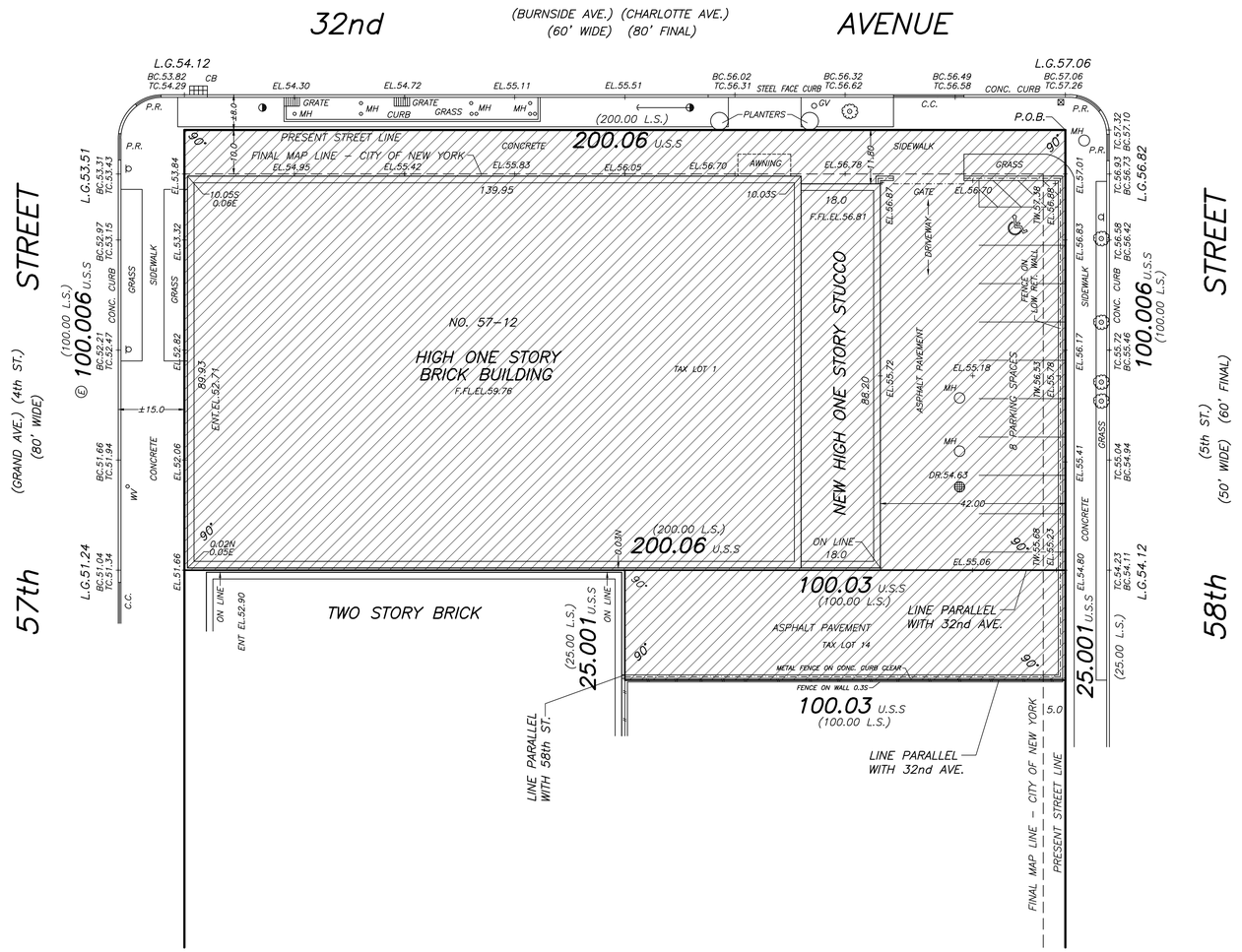
THENCE EASTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 32ND AVENUE, 100 FEET TO A POINT;

THENCE NORTHERLY ALONG THE WESTERLY SIDE OF 58TH STREET 25.00 FEET TO THE POINT OR PLACE OF BEGINNING.

LOT AREA = 2,500.00 SQ.FT. = 0.05739 ACRES.

REF. NO. Q1159-1

ENVIRONMENTAL EASEMENT SURVEY



LEGEND:

TRAFFIC LIGHT	T.L.
FIRE HYDRANT	HYD.
CATCH BASIN	C.B.
TREE	
UTILITY POLE	U.P.
VALVES GAS-G.V.	WATER-W.V.
OVERHEAD SERVICE WIRES	O.H.S.W.
TRAFFIC SIGN	T.S.
LEGAL GRADES	L.G.
PEDESTRIAN RAMP	P.R.
CURB AND CURB CUT	C.C.

DEC SITE NAME: 32-01 57TH STREET SITE
DEC SITE NO.: 241197
SITE ADDRESS: 32-01 57TH STREET
WOODSIDE, NY 11377

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW.

ENVIRONMENTAL EASEMENT AREA ACCESS
THE DEC OR THEIR AGENT MAY ACCESS THE ENVIRONMENTAL EASEMENT AREA AS SHOWN HEREON THROUGH AND EXISTING STREET ACCESS OR BUILDING INGRESS/EGRESS ACCESS POINT.

"THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV".

UNAUTHORIZED ALTERATIONS AND/OR ADDITIONS TO THIS SURVEY BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS INKED OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY. CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, THE TITLE COMPANY, THE GOVERNMENTAL AGENCY AND THE LENDING INSTITUTION LISTED ON THIS SURVEY MAP. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS AND/OR SUBSEQUENT OWNERS. FENCE OFFSETS TAKEN AT FABRIC. ENCROACHMENTS OR VAULTS BELOW SURFACE ARE NOT SHOWN. RIGHT OF WAYS AND/OR EASEMENTS OF RECORD NOT SHOWN ON THIS SURVEY ARE NOT CERTIFIED. OFFSETS AND DIMENSIONS HEREON ARE FOR A SPECIFIC PURPOSE AND ARE NOT TO BE USED IN THE ERECTION OF ADDITIONAL STRUCTURES, FENCES OR OTHER IMPROVEMENTS.
© 2025 ALL RIGHTS RESERVED

ENVIRONMENTAL EASEMENT AREA

16 0 16 32 64
GRAPHIC SCALE IN FEET (1"=16')

4.88 0 4.88 9.76 19.52
GRAPHIC SCALE IN METERS

LEGAL DESCRIPTION

TAX LOT 1

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 32ND AVENUE WITH THE WESTERLY SIDE OF 58TH STREET;

RUNNING THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF 58TH STREET 100.00 FEET TO A POINT;

THENCE WESTERLY AND AT RIGHT ANGLES 200.00 FEET TO A POINT;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 57TH STREET 100.00 FEET TO THE SOUTHERLY SIDE OF 32ND AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 32ND AVENUE 200.00 FEET TO THE POINT OR PLACE OF BEGINNING.

LOT AREA = 20,000.00 SQ.FT. = 0.45914 ACRES.

TAX LOT 14

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

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THENCE NORTHERLY ALONG THE WESTERLY SIDE OF 58TH STREET 25.00 FEET TO THE POINT OR PLACE OF BEGINNING.

LOT AREA = 2,500.00 SQ.FT. = 0.05739 ACRES.

ENVIRONMENTAL EASEMENT DESCRIPTION

SITE #241197

TAX LOT 1

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON ERECTED, SITUATE, LYING AND BEING IN THE BOROUGH OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

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THENCE WESTERLY AND AT RIGHT ANGLES 200.00 FEET TO A POINT;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 57TH STREET 100.00 FEET TO THE SOUTHERLY SIDE OF 32ND AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 32ND AVENUE 200.00 FEET TO THE POINT OR PLACE OF BEGINNING.

LOT AREA = 20,000.00 SQ.FT. = 0.45914 ACRES.

TAX LOT 14

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LOT AREA = 2,500.00 SQ.FT. = 0.05739 ACRES.

SURVEYORS NOTES

1. THE ACCOMPANYING SURVEY WAS MADE ON THE GROUND AND CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE ABOVE DESCRIBED PREMISES.

2. THAT EXCEPT AS SHOWN, THERE ARE NO VISIBLE EASEMENTS OR RIGHT OF WAYS ACROSS SAID PREMISES.

3.. THE PROPERTY HAS DIRECT PHYSICAL ACCESS TO A PUBLIC STREET KNOWN AS 57TH STREET, 58TH STREET AND 32ND AVENUE. THERE ARE NO CHANGES IN STREET RIGHT OF WAYS.

4. THE RECORD DESCRIPTION OF THE PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE.

5. THERE IS NO VISIBLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE PREMISES.

6. THERE IS NO VISIBLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

7. THERE IS NO VISIBLE EVIDENCE OF CEMETERIES.

8. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A WETLANDS AREA.

NO.	DATE	REVISION
2.	NOVEMBER 28, 2025	UPDATED AND ADDED TAX LOT 14
1.	OCTOBER 3, 2018	UPDATED FOR ENVIRONMENTAL EASEMENT SURVEY

SURVEYED: JUNE 19, 2018

MAP OF PROPERTY SITUATED IN
WOODSIDE
QUEENS COUNTY, N.Y.
TAX SECT.: 8 TAX BLOCK: 1159 TAX LOTS: 1 & 14

Empire State Land Surveyor, P.C.
Frank I. Galluzzo Professional Land Surveyor
Records of Albert A. Bianco - Barry M. Fahrer - Robert B. Holzman
Stephen J. Reid - M. Berry Carman - G. W. Haviland - Vandewater & Lapp
Robert E. Carlin - William J. Daly - Fransen & Mantiari - Carter B. Harris
Francis J. Hickey - William K. Morse - Ludwig Riemenschneider
1005 Glen Cove Avenue, Glen Head, NY. 11545
empiresurveys@aol.com | (516)-240-6901

APPENDIX 2

IRMWP ADDENDUM

HAKS

ADDENDUM TO:

INTERIM REMEDIAL MEASURE (IRM)

WORK PLAN

Offsite Soil Vapor Intrusion Mitigation

Prepared For:

Residential Property Adjacent to Tibetan Community of New York and New Jersey

32-12 58th Street

Block 1159; Lot 15

Queens, New York

Prepared By:

HAKS Engineers, Architects, and Land Surveyors DPC

40 Wall Street, 9th Floor

New York, NY 10005

Prepared On:

7 August, 2017

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4.2 Extraction Well Design Details 8
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B. Validated Lab Data
C. NYSDOH Indoor Air Quality Questionnaire and Building Inventory
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1.0 INTRODUCTION

This addendum to the New York State Department of Environmental Conservation (NYSDEC) approved IRM work plan addresses off-site soil vapor intrusion mitigation measures for the off-site adjacent property located south of the site at 32-12 58th Street in Woodside, Queens. In order to investigate whether chlorinated solvents in the soil are impacting the sub-slab in this property, an impact assessment was performed beneath the adjacent house on April 11, 2017. The investigation was performed as per NYSDEC requirements, which were communicated verbally via a site walk-through on January 25, 2017. The results of the investigation were presented to NYSDEC and the New York City Department of Health and this addendum was prepared in response to recommendations from both agencies.

2.0 OFF-SITE VAPOR INTRUSION IMPACT ASSESSMENT

When permission to this facility was granted, an interior inspection of the basement floor was performed prior to the vapor intrusion investigation in order to determine the appropriate location of one (1) sub-slab vapor sampling point. Sub-slab soil vapor sampling involved the installation of one implant that is a very small hole, about 3/8 inch outer diameter, to be installed to a depth of 2 inches beneath the existing building's slab. After sampling, the floor surface was restored to its original condition with cement. One (1) indoor air sample and one (1) ambient (outdoor) air sample were also collected at the residential property.

All air samples were collected utilizing 6 liter pre-cleaned (as certified by the laboratory), passivated and evacuated whole air Summa® Canister. Each air sampling canister was connected to a flow control valve set to collect the 6-L sample over a period of 8 hours at a rate of less than 0.2 liter per minute. All Summa Canisters were labeled and sent to a laboratory certified to perform air analysis in New York State. The air samples were analyzed for common VOCs via EPA Method TO-15.

The vapor intrusion investigation was conducted in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 guidance. Additionally, in accordance with New York State Department of Health (NYSDOH) requirements, an NYSDOH Indoor Air Quality Questionnaire and Building Inventory was completed for this site and is provided in **Appendix C**.

3.0 IMPACT ASSESSMENT FINDINGS

A summary of the laboratory results for sub-slab vapor samples and indoor air samples listed in the Decision Matrices 1 and 2 of the NYSDOH Guidance for Evaluating Soil Vapor in the State of New York are included in the table below. Laboratory analytical data is provided in **Appendix A** and the validated data is provided in **Appendix B**. Soil vapor analytical results and indoor air analytical results were compared to NYSDOH indoor air guidance values and soil vapor matrices published in the NYSDOH Guidance for Evaluating Soil Vapor in the State of New York. Results were also compared to NYSDOH Indoor Air Guidance values for tetrachloroethene and trichloroethene and no exceedances were found. The following table summarizes the analytical results and recommended actions in accordance with the NYSDOH decision matrices.

SAMPLES	**AIR MATRIX 1 COMPOUND LIST RESULTS AND RECOMMENDATIONS**			**AIR MATRIX 2 COMPOUND LIST RESULTS AND RECOMMENDATIONS**			
	Carbon Tetra-chloride	Trichloro-ethene	Vinyl Chloride	1,1,1-Trichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloroethene	Tetrachloro-ethene
SVP-1 (NYSDOH Action)	**Action 2 (Take reasonable and practical actions to identify sources and reduce exposures)**	Action 13 (Mitigate)	Action 1 (NFA)	Action 1 (NFA)	Action 1 (NFA)	Action 1 (NFA)	Action 1 (NFA)
Sub slab Vapor (SS-1) (µg/m3)	1.21	318	ND	ND	ND	ND	31.8
Indoor Air (IA-1) (µg/m3)	0.69	ND	ND	ND	ND	ND	2.39

NOTES
ND - Not detected
NFA- No further action

Based on a comparison of sub-slab vapor results to the NYSDOH Air Guidance Matrices, mitigation is recommended due to concentrations of Trichloroethene (TCE) detected in the sub-slab sample SS-1. Additionally, taking reasonable and practical actions to identify sources and reduce exposure is recommended based on concentrations of Carbon Tetrachloride in SS-1 and IA-1 collected in the residential building.

These findings were presented to NYSDEC. Based on discussions with NYSDEC and NYCDOH, the existing SSDS design of the Site was modified to include an additional soil vapor extraction (SVE) component. This SVE system will be installed at the boundary of the Site where it borders the adjacent residential property and is designed to protect building occupants from the potential migration of chlorinated VOC vapors from the subsurface.

The site is located in a commercial area and is surrounded by an auto parts shop, a tire repair shop, and an auto repair shop to the southwest. Due to the makeup of the neighborhood and the presence of other potential contributors, further delineation south of the site for soil vapor intrusion would not be conclusive as to the source. Furthermore, the proposed modifications to the DEC-approved SSDS design at this site would mitigate potential for vapor intrusion south of the site. Therefore, additional off-site delineation is not warranted.

4.0 SVE PIT DESIGN, CONSTRUCTION AND OPERATION PROCEDURES

The following sections detail the soil vapor extraction (SVE) pit design, installation and operation protocols prior and after system start-up.

Figure 1 provides the SSDS and and SVE system design and details. **Appendices D and E** provide specification cut sheets for the RadonAway ventilation fan, the Rotron blower and related components.

4.1 Site Preparation

Preliminary work that will be performed by the Contractor prior to performance of IRM Work Plan Addendum activities will include the following:

Site Mobilization: Mobilization will be conducted as necessary for each phase of work at the Site. Mobilization includes field personnel orientation, equipment mobilization, marking and utility mark-outs. Each field team member will attend an orientation meeting to become familiar with the general operation of the Site, health and safety requirements, and field procedures.

Utility Marker Layouts, Easement Layouts: The presence of utilities and easements on the Site or the adjacent residential structure will be fully investigated prior to the performance of invasive work such as drilling under this plan by using, at a minimum, the One-Call System (811). All invasive activities will be performed in compliance with applicable laws and regulations to assure safety. Utility companies and other responsible authorities will be contacted to locate and mark the locations, and prior to the start of drilling or other operations will retain a copy of the Mark out Ticket. Proper safety and protective measures pertaining to utilities and easements, and compliance with all laws and regulations will be employed during invasive and other work contemplated under this Plan. The integrity and safety of on-Site and off-Site structures will be maintained during drilling or other remedial activity performed under the IRM Work Plan Addendum.

Equipment and Material Staging: Equipment and materials will be stored and staged on-site in a manner that complies with applicable laws and regulations. The locations of proposed equipment and material staging areas, drum storage area and the project manager will define other pertinent remedial management features during the Site preparation activities.

Decontamination: if needed, a temporary decontamination pad will be set up at the Site and will be maintained throughout ongoing IRM Work Plan Addendum field activities. The decontamination pad will be used to remove waste from reusable equipment, trucks, etc.

Demobilization: Demobilization will include:

- As necessary, restoration of temporary access areas and areas that may have been disturbed to accommodate support areas (e.g., staging areas, decontamination areas, storage areas, temporary water management areas, and access area);
- Removal of sediment from erosion control measures and disposal of materials in accordance with applicable laws and regulations;
- Equipment decontamination, and;
- Equipment will be decontaminated and demobilized at the completion of field activities. Investigation equipment and large equipment (e.g., soil excavator) will be washed at a secluded station as necessary. In addition, all investigation derived waste will be appropriately disposed.

4.2 Extraction Well Design Details

In order to implement immediate remedial measures to reduce potential exposure to chlorinated solvent vapors in the adjacent residential property, two (2) SVE pits will be installed at the site boundary directly adjacent to the residential property.

Each extraction well will be installed using a geoprobe. Construction will be performed during normal business hours and the well will be constructed using a (2) two inch diameter schedule 40 PVC pipe. The well screen will be 0.030 inch slotted, with a screened depth from 10'-15' for both pits. Extraction well details are as follows:

1. The annular space surrounding the extraction wells will be filled with clean sand to 1' above the top of the screen;

2. Bentonite chips will be used to seal each well location to ensure no ambient air interferences.
3. Each well will be capped with a butterfly or ball valve or barbed connection for VOC testing via a photoionization detector.
4. A protective flush mounted cover will be provided for each well at the surface.

The SVE pits will be manifolded together in the sub-slab of the parking lot, run to the southeast side of the building up to the roof, and coupled with a Gast R6130Q-50 Regenerative Blower located on the roof of the building. As with the sub-slab depressurization system (SSDS) components, the locations of the piping outlets to the roof will be coordinated with the Architect to avoid visual conflicts and to minimize bends, or other flow reducing impedances. All roof venting locations will be 10 feet away from any exhaust or air intake vents.

Upon completion of the SVE pit installation, all excavated soils will be properly characterized for off-site disposal per applicable federal, state, and local regulations. No disturbed soils will be re-used for backfill. Any backfill requirements will be certified clean fill or gravel.

4.3 Post-Installation Diagnostics

Post installation, the Environmental Engineer will mobilize to the site to perform post installation SVE diagnostics. The engineer will access the SVE riser pipes, roof vents and existing concrete slab.

4.4 System Startup

The system will then be started with 100% applied suction from the fan in order to maximize the air flow drawn from the indoor space of the adjacent residential property. The pressure gauges will also be configured to read between 0 and 2" inches of water column of vacuum pressure to verify vacuum operation of the system. System parameters including airflow and organic vapor concentrations at the effluents will be monitored following start-up. Vapor concentrations will be measured with the PID at the effluent. System monitoring will be conducted during the first two days of operation as follows: Hourly for 5 consecutive hours on the first day and once on the second day. Sub-slab sampling and indoor air sampling for VOCs via EPA Method TO-15 will be conducted at the offsite property 7 days following the initial startup period.

Field logs will be completed during the course of system monitoring and will be submitted to the NYSDEC Project Manager before noon the next business day. A field log will be completed on a daily basis that will describe all field activities including:

- Project number, name, manager, and address;
- Description of field activities;
- Date and time of performed tasks;
- Monitoring equipment;
- Apparent weather conditions (e.g. precipitation, outdoor temperature and wind direction) of the work zone; and
- Record of monitoring data on spreadsheets with all requested parameters and point of measurements.
- Any public complaints will be sent to NYSDEC immediately.

5.0 REPORT OF FINDINGS & PROJECT SCHEDULE

5.1 Report of Findings

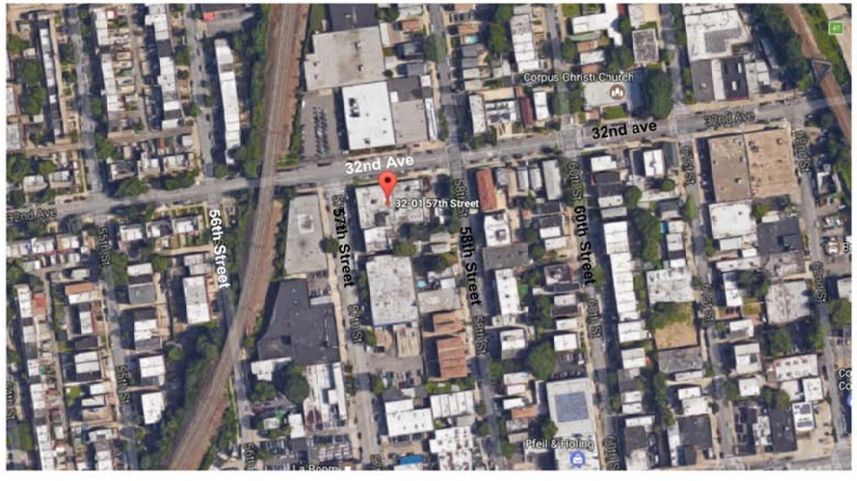
The final as built design of the SSDS and SVE system including all modifications will be documented in a Construction Completion Report (CCR). The CCR will be prepared 45 days after system start up and will include post-startup system operational data (flow rate and PID reading). The CCR also include the as-built drawings of the system, plus cut sheets for system components. An OM&M Plan will also be included as an appendix in the CCR.

5.2 Project Schedule

The proposed IRM Addendum activities associated with the construction of the SSDS and SVE system will be completed following NYSDEC approval of system design. Once NYSDEC approval of the system design has been granted, it is anticipated that the SSDS installation will be conducted concurrent with the ongoing building renovation. The building renovation is ongoing.

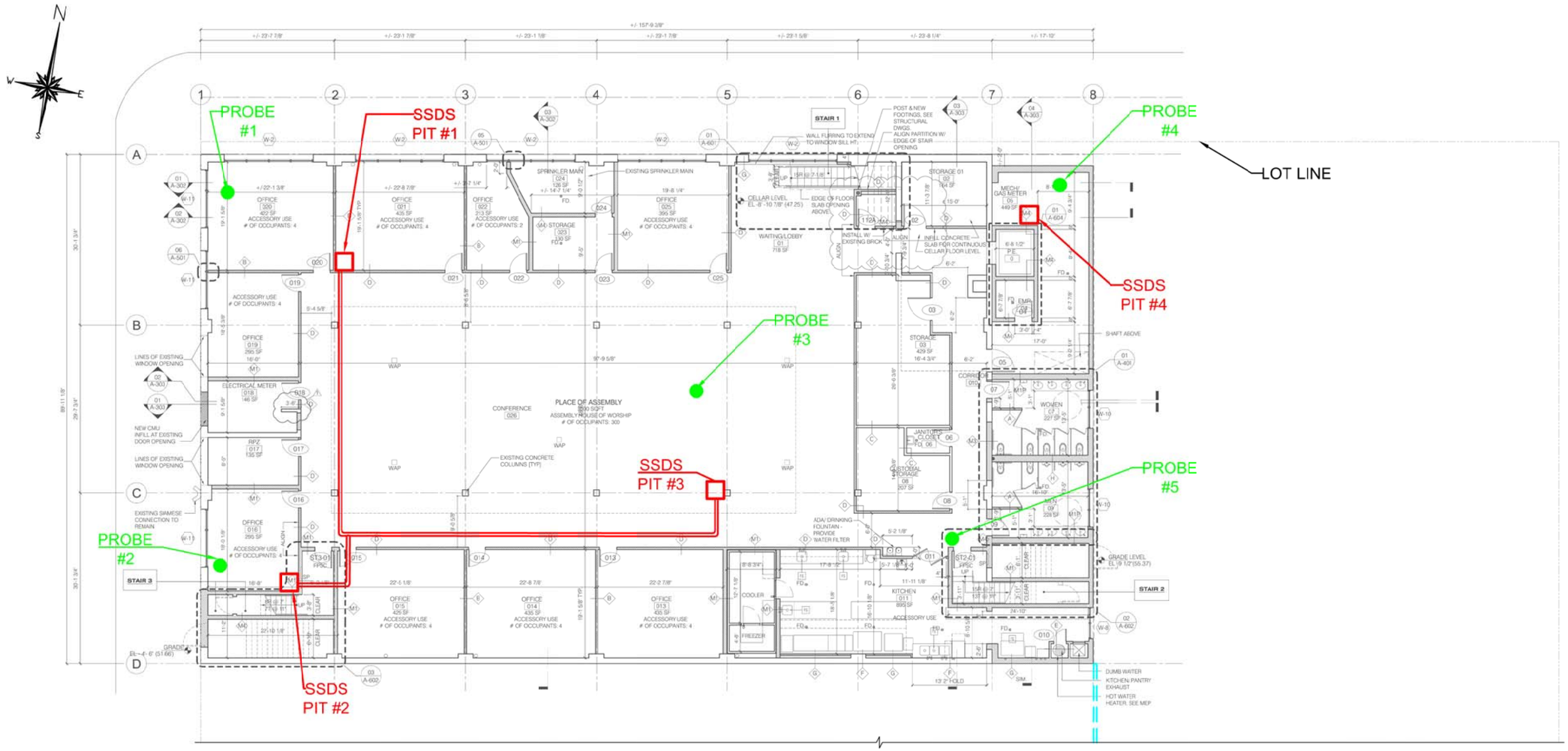
FIGURE 1 – SSDS AND SVE DESIGN AND DETAILS

DESIGN DRAWINGS
SUB SLAB DEPRESSURIZATION SYSTEM & SOIL VAPOR EXTRACTION SYSTEM
TIBETAN COMMUNITY OF NEW YORK AND NEW JERSEY
32-01 57TH STREET , QUEENS, NY
AUGUST 2017



1. COVER SHEET WITH SITE LOCATION MAP
2. PROPOSED CELLAR PLAN
3. PROPOSED ROOF PLAN
4. DETAILS
5. NOTES

HAKS PROJECT NO.			
TIBETAN COMMUNITY OF NEW YORK and NEW JERSEY 32-01 57th St. Queens, NY			
25 YEARS HAKS 1991-2016 Client Focused - Quality Services 40 Wall St., 11th Floor, New York, NY 10005	PREPARED BY: HAKS IN CHARGE TZK DRAFTER BR DESIGNER TZK CHECKER DA	BASE DRAWING FROM:	Site Location Map
			DWG. NO. 1 / SCALE N.T.S. / DATE AUGUST 2017 / SHEET 1 OF 5



LEGEND

- SSDS PIT
  SPECS: 24" X 24" X 24"
- SSDS PIPING
  4" Cast Iron Piping (above grade) or
  4" PVC (below grade).
  Vertical Riser Pipes run throughout the building to the roof. Locations are estimates and will be finalized by Architect of Record
- LOCATION OF SMOKE/PRESSURE PROBE
- SVE PIT
- SVE PIPING
  4" Cast Iron Piping (above grade) or
  4" PVC (below grade).
  Vertical Riser Pipes run up the side of the building to the roof. Locations are estimates and will be finalized by Architect of Record

1 / - PROPOSED CELLAR PLAN

N.T.S.

HAKS PROJECT NO.

TIBETAN COMMUNITY OF NEW YORK and NEW JERSEY
32–01 57th St. Queens, NY

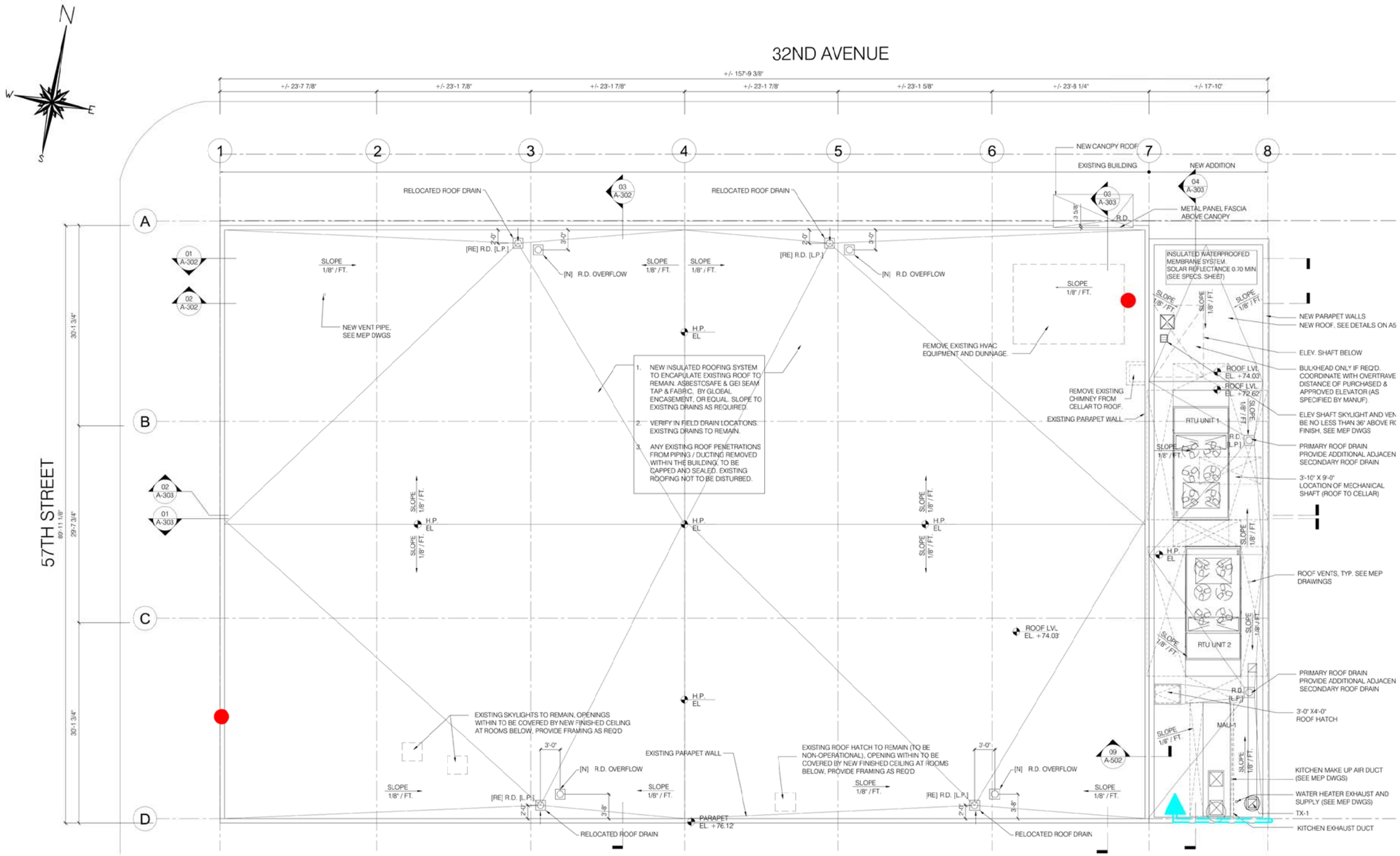
PROPOSED CELLAR PLAN

DWG. NO.	SCALE	DATE	SHEET
1	N.T.S.	AUGUST 2017	2 OF 5

25 YEARS HAKS
1991-2016 Client Focused - Quality Services
40 Wall St., 11th Floor, New York, NY 10005

PREPARED BY: HAKS
IN CHARGE TZK DRAFTER BR
DESIGNER TZK CHECKER DA

BASE DRAWING FROM:
NANDINEE PHOOKAN ARCHITECTS
45 Main St, Brooklyn, NY 11201



1 PROPOSED ROOF PLAN
N.T.S.

LEGEND

- Roof Penetration to SSDS fan
  - Locations are estimates ; to be finalized by Architect of Record
- SVE fan
  - Locations are estimates ; to be finalized by Architect of Record
- SVE PIPING
  4" Cast Iron Piping (above grade)

Locations are estimates and will be finalized by Architect of Record

HAKS PROJECT NO.

TIBETAN COMMUNITY OF NEW YORK and NEW JERSEY
32-01 57th St. Queens, NY

PROPOSED ROOF PLAN

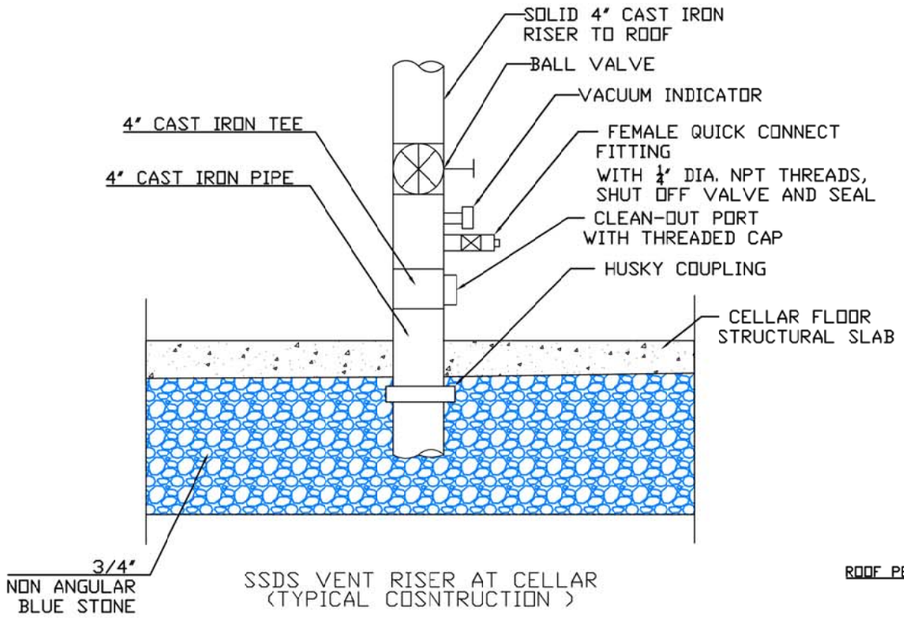
DWG. NO.	SCALE	DATE	SHEET
1	N.T.S.	AUGUST 2017	3 OF 5

25 YEARS HAKS
1991-2016 Client Focused - Quality Services
40 Wall St., 11th Floor, New York, NY 10005

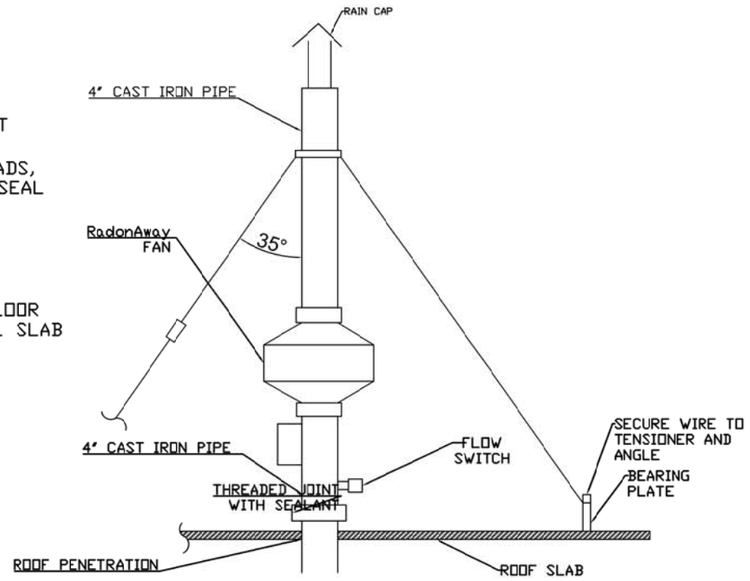
PREPARED BY: HAKS
IN CHARGE TZK DRAFTER BR
DESIGNER TZK CHECKER DA

BASE DRAWING FROM:
NANDINEE PHOOKAN ARCHITECTS
45 Main St, Brooklyn, NY 11201

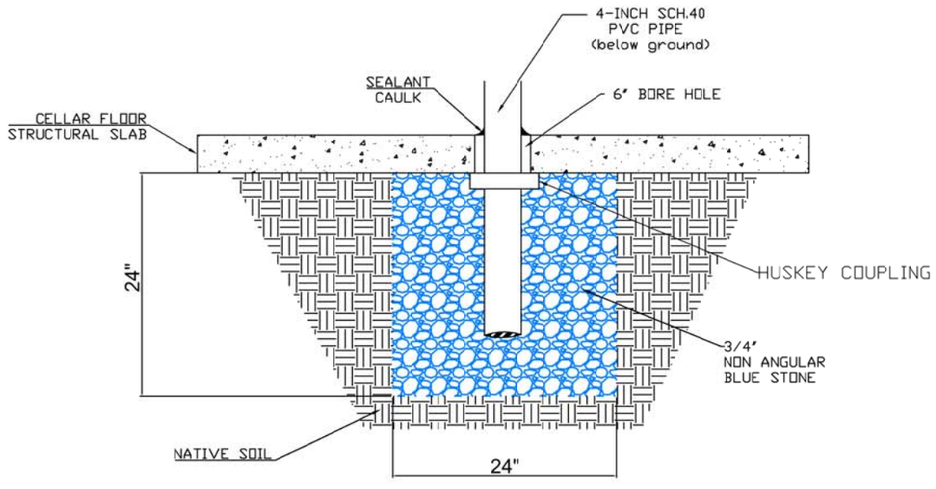
SSDS COMPONENTS



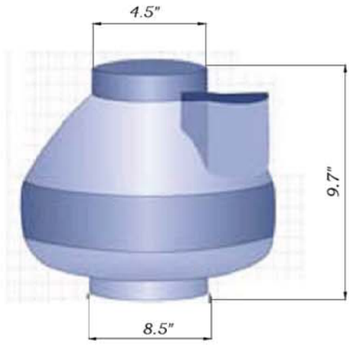
SSDS VENT RISER AT CELLAR
(TYPICAL COSNTRUCTION)



SSDS VENT RISER AT ROOF
(TYPICAL CONSTRUCTION)

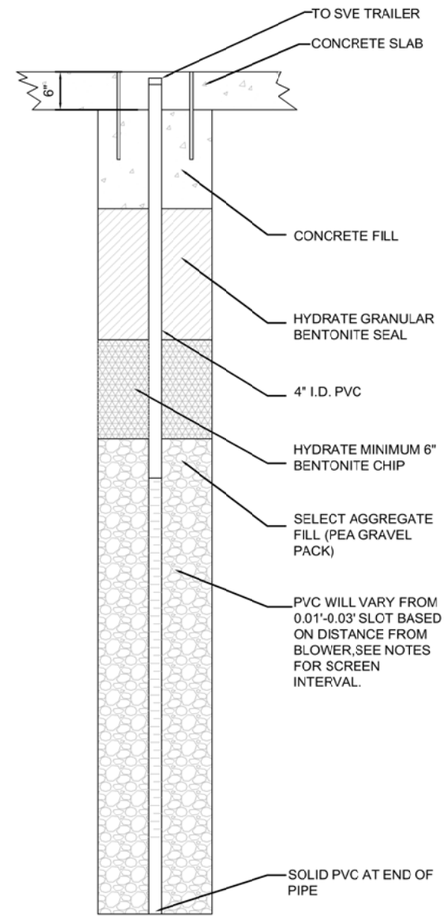


SSDS PITS 1 -4
(SEE ABOVE DETAIL)



RadonAway Fan (x2)

SVE COMPONENT



6" DIA. BOREHOLE

SOIL VAPOR EXTRACTION WELL (TYPICAL)
SCALE: 1"=1'-0

SVE WELL ID	SCREENED INTERVAL	WELL SCREEN DIA.
SVE - 1	10' - 15'	0.03'
SVE - 2	10' -15'	0.03'

HAKS PROJECT NO.

TIBETAN COMMUNITY OF NEW YORK and NEW JERSEY
32-01 57th St. Queens, NY

DETAILS

DWG. NO.	SCALE	DATE	SHEET
1	N.T.S	AUGUST 2017	4 OF 5

25 YEARS HAKS
1991-2016 Client Focused - Quality Services
40 Wall St., 11th Floor, New York, NY 10005

PREPARED BY: HAKS
IN CHARGE TZK DRAFTER BR
DESIGNER TZK CHECKER DA

BASE DRAWING FROM:

DRAWING NOTES

General Notes:

1. The work depicted on these drawings shall be performed by an experienced contractor who has working knowledge of applicable code standards and industry accepted standard good practice. Not every condition or element is or can be explicitly shown on these drawings.
2. The contractor shall confer with and seek the approval of the engineer and/or Architect of Record for the final locations of all venting system components.
3. The contractor will provide an as-built drawing of the installed venting system upon completion.
4. All inspections required by the building code shall be provided by an independent inspection company or the local building department where applicable.
5. The venting system shall be in compliance with New York City Mechanical Code, Chapter 5 Section MC-512 Subslab exhaust systems.
6. Vertical piping runs shall be marked "Soil Vapor Venting System - Do Not Tamper with or Disturb". The labels shall be easily read within three (3) feet.
7. All piping shall be supported according to all applicable codes.
8. Provide 120V AC 20 AMP electrical service with a dedicated circuit breaker to within five (5) feet of the location of the venting fan for roof installation options.
9. Smoke testing - Smoke testing will be performed at the five probe locations as define on the figure. A small diameter (¼") pilot hole will be drilled through the existing concrete floor slab into the gravel base layer. The testing will be conducted by lighting a smoke stick at the probe location to illustrate the negative influence of the SSDS system. photographs of the smoke entering the probe location will be collected during the testing.
10. Pressure Testing - A small diameter (¼") pilot hole will be drilled through the existing concrete floor slab into the gravel base layer. A manometer will be used to analyze the pressure beneath the slab at the pilot hole location. A negative pressure reading will indicate the influence of the SSDS system at each probe location and confirm communication from the SSDS pit to the probe location.

Venting Fan Notes:

1. SSDS Ventilation Fan to be specified as RadonAway RP 145, Part Number 23030-1, or engineer approved equivalent. One (1) ventilation fan is to be installed for SSDS pits #1-3 and one (1) ventilation fan is to be installed for SSDS pit #4 as identified in the contract drawings. SVE Ventilation Fan to be specified as RadonAway RP 260, Part Number 28462, or engineer approved equivalent. One (1) ventilation fan is to be installed for SVE pits #1 and #2.
2. Electrical connection to be provided per Radon Away Specifications.
3. Selected contractor must conform to all installation instructions as provided per the included RadonAway installation instructions.
4. Fan to be mounted to roof or roof ledger using RadonAway Fan Mounting Bracket, SKU 25007.

Contractor Notes

1. The Contractor shall furnish all labor, material, equipment, supplies and incidentals required for the installation of the RadonAway fan (or engineer approved equivalent) system as shown on the Drawings. The work shall include, but not limited to the following: installation in basement, associated piping and mechanical and electrical appurtenances in their entirety, fan installation, grouting and restoration to existing conditions and in accordance with all applicable federal, state and local requirements. Final restoration of all disturbances to existing conditions.
2. The Contractor shall be responsible to comply with all local, state, and federal rules and regulations concerning emissions and disposal of solids and other materials generated by the work. Containment, handling and disposal of materials, and means and methods employed by the Contractor are the responsibility of the Contractor.
3. Compliance assurance shall be the responsibility of the Contractor. Communication between Contractor and governing authorities, regulatory agencies, and similar entities, shall be coordinated through the Owner.
4. All permits, bonds, easements, or licenses required to perform the Work shall be obtained by the Contractor.
5. The Contractor shall coordinate with the Owner to ensure all permits are in place prior to the Contractor starting work.
6. Determination of license and permit requirements shall be the responsibility of the Contractor.
7. Copies of all executed permits and licenses shall be transmitted to the Owner upon receipt.

Pipe Notes:

1. Hubless Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 888 and CISPI Standard 301. The Charlotte Pipe and Foundry Company hubless Cast Iron Soil Pipe shall be specified, or approved equivalent. All piping to be 4" inches diameter unless otherwise noted.
2. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute ® and listed by NSF® International.
3. Hubless Couplings shall conform to CISPI Standard 310 and be certified by NSF® International.
4. Heavy Duty couplings shall conform to ASTM C 1540 and shall be used if indicated. Gaskets shall conform to ASTM C 564.
5. The cast iron riser shall be installed vertically to the exterior of the building to the roof and shall terminate a minimum of one (1) foot above the roof line and at least ten (10) feet from HVAC RTU air intakes, doors, windows, or other openings into the occupied space of the building or adjacent buildings.

HAKS PROJECT NO.

TIBETAN COMMUNITY OF NEW YORK and NEW JERSEY
32-01 57th St. Queens, NY

25 YEARS HAKS
1991-2016 Client Focused - Quality Services
40 Wall St., 11th Floor,
New York, NY 10005

PREPARED BY: HAKS
IN CHARGE TZK DRAFTER BR
DESIGNER TZK CHECKER DA

BASE DRAWING FROM:

NOTES

DWG. NO.	SCALE	DATE	SHEET
1	N.T.S	AUGUST 2017	5 OF 5

APPENDIX A – LAB RESULTS FOR OFF-SITE SAMPLING

PHOENIX
Environmental Laboratories, Inc.

Wednesday, April 19, 2017

Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Project ID: 32-12 58TH STREET
Sample ID#s: BY03105 - BY03107

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:35
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	12864				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03105

Project ID: 32-12 58TH STREET
Client ID: SS-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	KCA	1	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	04/13/17	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	04/13/17	KCA	1	
1,2,4-Trimethylbenzene	0.720	*0.204*	3.54	*1.00*	04/13/17	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	04/13/17	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	04/13/17	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	04/13/17	KCA	1	
1,3,5-Trimethylbenzene	0.237	*0.204*	1.16	*1.00*	04/13/17	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	04/13/17	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	04/13/17	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	04/13/17	KCA	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	04/13/17	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	04/13/17	KCA	1	1
4-Methyl-2-pentanone(MIBK)	2.38	*0.244*	9.7	*1.00*	04/13/17	KCA	1	
Acetone	293	*12.6*	696	*29.9*	04/17/17	KCA	30	
Acrylonitrile	ND	*0.461*	ND	*1.00*	04/13/17	KCA	1	
Benzene	2.23	*0.313*	7.12	*1.00*	04/13/17	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	04/13/17	KCA	1	

Project ID: 32-12 58TH STREET
Client ID: SS-1

Phoenix I.D.: BY03105

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	ND	*1.00*	04/13/17	KCA	1	
Bromoform	ND		*0.097*	ND	*1.00*	04/13/17	KCA	1	
Bromomethane	ND		*0.258*	ND	*1.00*	04/13/17	KCA	1	
Carbon Disulfide	0.699		*0.321*	2.18	*1.00*	04/13/17	KCA	1	
Carbon Tetrachloride	0.192		*0.040*	1.21	*0.25*	04/13/17	KCA	1	
Chlorobenzene	ND		*0.217*	ND	*1.00*	04/13/17	KCA	1	
Chloroethane	ND		*0.379*	ND	*1.00*	04/13/17	KCA	1	
Chloroform	1.50		*0.205*	7.32	*1.00*	04/13/17	KCA	1	
Chloromethane	ND		*0.485*	ND	*1.00*	04/13/17	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	04/13/17	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	04/13/17	KCA	1	
Cyclohexane	ND		*0.291*	ND	*1.00*	04/13/17	KCA	1	
Dibromochloromethane	ND		*0.118*	ND	*1.00*	04/13/17	KCA	1	
Dichlorodifluoromethane	ND		*0.202*	ND	*1.00*	04/13/17	KCA	1	
Ethanol	41.8	E	*0.531*	78.7	*1.00*	04/13/17	KCA	1	1
Ethyl acetate	ND		*0.278*	ND	*1.00*	04/13/17	KCA	1	1
Ethylbenzene	5.21		*0.230*	22.6	*1.00*	04/13/17	KCA	1	
Heptane	ND		*0.244*	ND	*1.00*	04/13/17	KCA	1	
Hexachlorobutadiene	ND		*0.094*	ND	*1.00*	04/13/17	KCA	1	
Hexane	ND		*0.284*	ND	*1.00*	04/13/17	KCA	1	
Isopropylalcohol	ND		*0.407*	ND	*1.00*	04/13/17	KCA	1	
Isopropylbenzene	ND		*0.204*	ND	*1.00*	04/13/17	KCA	1	
m,p-Xylene	23.3		*0.230*	101	*1.00*	04/13/17	KCA	1	
Methyl Ethyl Ketone	54.5		*10.2*	161	*30.1*	04/17/17	KCA	30	
Methyl tert-butyl ether(MTBE)	0.824		*0.278*	2.97	*1.00*	04/13/17	KCA	1	
Methylene Chloride	ND		*0.288*	ND	*1.00*	04/13/17	KCA	1	
n-Butylbenzene	ND		*0.182*	ND	*1.00*	04/13/17	KCA	1	1
o-Xylene	4.11		*0.230*	17.8	*1.00*	04/13/17	KCA	1	
Propylene	46.4		*17.4*	79.8	*29.9*	04/17/17	KCA	30	1
sec-Butylbenzene	ND		*0.182*	ND	*1.00*	04/13/17	KCA	1	1
Styrene	ND		*0.235*	ND	*1.00*	04/13/17	KCA	1	
Tetrachloroethene	4.59		*0.037*	31.1	*0.25*	04/13/17	KCA	1	
Tetrahydrofuran	29.5		*10.2*	86.9	*30.1*	04/17/17	KCA	30	1
Toluene	64.5		*7.97*	243	*30.0*	04/17/17	KCA	30	
Trans-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	04/13/17	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	04/13/17	KCA	1	
Trichloroethene	59.2		*1.40*	318	*7.52*	04/17/17	KCA	30	
Trichlorofluoromethane	0.250		*0.178*	1.40	*1.00*	04/13/17	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	ND	*1.00*	04/13/17	KCA	1	
Vinyl Chloride	ND		*0.098*	ND	*0.25*	04/13/17	KCA	1	
QA/QC Surrogates									
% Bromofluorobenzene	113		*%*	113	*%*	04/13/17	KCA	1	

Project ID: 32-12 58TH STREET
Client ID: SS-1

Phoenix I.D.: BY03105

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

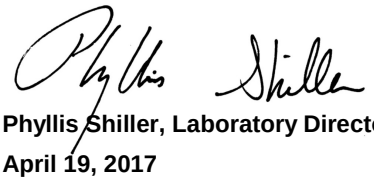
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

April 19, 2017

Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:11
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	21323				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03106

Project ID: 32-12 58TH STREET
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	DD	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	DD	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	DD	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	DD	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	DD	1	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	04/13/17	DD	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	04/13/17	DD	1	
1,2,4-Trimethylbenzene	0.329	*0.204*	1.62	*1.00*	04/13/17	DD	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	DD	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	04/13/17	DD	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	04/13/17	DD	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	04/13/17	DD	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	04/13/17	DD	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	04/13/17	DD	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	04/13/17	DD	1	
Acetone	11.7	*0.421*	27.8	*1.00*	04/13/17	DD	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	04/13/17	DD	1	
Benzene	0.329	*0.313*	1.05	*1.00*	04/13/17	DD	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	04/13/17	DD	1	

Project ID: 32-12 58TH STREET
Client ID: IA-1

Phoenix I.D.: BY03106

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	ND	*1.00*	04/13/17	DD	1	
Bromoform	ND		*0.097*	ND	*1.00*	04/13/17	DD	1	
Bromomethane	ND		*0.258*	ND	*1.00*	04/13/17	DD	1	
Carbon Disulfide	ND		*0.321*	ND	*1.00*	04/13/17	DD	1	
Carbon Tetrachloride	0.109		*0.040*	0.69	*0.25*	04/13/17	DD	1	
Chlorobenzene	ND		*0.217*	ND	*1.00*	04/13/17	DD	1	
Chloroethane	ND		*0.379*	ND	*1.00*	04/13/17	DD	1	
Chloroform	ND		*0.205*	ND	*1.00*	04/13/17	DD	1	
Chloromethane	ND		*0.485*	ND	*1.00*	04/13/17	DD	1	
Cis-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	04/13/17	DD	1	
cis-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	04/13/17	DD	1	
Cyclohexane	ND		*0.291*	ND	*1.00*	04/13/17	DD	1	
Dibromochloromethane	ND		*0.118*	ND	*1.00*	04/13/17	DD	1	
Dichlorodifluoromethane	0.554		*0.202*	2.74	*1.00*	04/13/17	DD	1	
Ethanol	179	E	*0.531*	337	*1.00*	04/13/17	DD	1	1
Ethyl acetate	ND		*0.278*	ND	*1.00*	04/13/17	DD	1	1
Ethylbenzene	ND		*0.230*	ND	*1.00*	04/13/17	DD	1	
Heptane	0.320		*0.244*	1.31	*1.00*	04/13/17	DD	1	
Hexachlorobutadiene	ND		*0.094*	ND	*1.00*	04/13/17	DD	1	
Hexane	ND		*0.284*	ND	*1.00*	04/13/17	DD	1	
Isopropylalcohol	2.17		*0.407*	5.33	*1.00*	04/13/17	DD	1	
Isopropylbenzene	ND		*0.204*	ND	*1.00*	04/13/17	DD	1	
m,p-Xylene	0.747		*0.230*	3.24	*1.00*	04/13/17	DD	1	
Methyl Ethyl Ketone	0.659		*0.339*	1.94	*1.00*	04/13/17	DD	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	ND	*1.00*	04/13/17	DD	1	
Methylene Chloride	2.16	S	*0.288*	7.50	*1.00*	04/13/17	DD	1	
n-Butylbenzene	ND		*0.182*	ND	*1.00*	04/13/17	DD	1	1
o-Xylene	0.291		*0.230*	1.26	*1.00*	04/13/17	DD	1	
Propylene	1.62		*0.581*	2.79	*1.00*	04/13/17	DD	1	1
sec-Butylbenzene	ND		*0.182*	ND	*1.00*	04/13/17	DD	1	1
Styrene	ND		*0.235*	ND	*1.00*	04/13/17	DD	1	
Tetrachloroethene	0.352		*0.037*	2.39	*0.25*	04/13/17	DD	1	
Tetrahydrofuran	ND		*0.339*	ND	*1.00*	04/13/17	DD	1	1
Toluene	1.77		*0.266*	6.67	*1.00*	04/13/17	DD	1	
Trans-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	04/13/17	DD	1	
trans-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	04/13/17	DD	1	
Trichloroethene	ND		*0.047*	ND	*0.25*	04/13/17	DD	1	
Trichlorofluoromethane	0.266		*0.178*	1.49	*1.00*	04/13/17	DD	1	
Trichlorotrifluoroethane	ND		*0.131*	ND	*1.00*	04/13/17	DD	1	
Vinyl Chloride	ND		*0.098*	ND	*0.25*	04/13/17	DD	1	
QA/QC Surrogates									
% Bromofluorobenzene	118		*%*	118	*%*	04/13/17	DD	1	

Project ID: 32-12 58TH STREET
Client ID: IA-1

Phoenix I.D.: BY03106

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

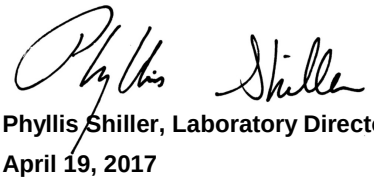
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
April 19, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:21
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	21333				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03107

Project ID: 32-12 58TH STREET
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	DD	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	DD	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	04/13/17	DD	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	04/13/17	DD	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	DD	1	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	04/13/17	DD	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	04/13/17	DD	1	
1,2,4-Trimethylbenzene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	04/13/17	DD	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	04/13/17	DD	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	04/13/17	DD	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	04/13/17	DD	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	04/13/17	DD	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	04/13/17	DD	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	04/13/17	DD	1	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	04/13/17	DD	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	04/13/17	DD	1	
Acetone	7.55	*0.421*	17.9	*1.00*	04/13/17	DD	1	
Acrylonitrile	ND	*0.461*	ND	*1.00*	04/13/17	DD	1	
Benzene	ND	*0.313*	ND	*1.00*	04/13/17	DD	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	04/13/17	DD	1	

Ver 1

Project ID: 32-12 58TH STREET
Client ID: OA-1

Phoenix I.D.: BY03107

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	04/13/17	DD	1	
Bromoform	ND	*0.097*	ND	*1.00*	04/13/17	DD	1	
Bromomethane	ND	*0.258*	ND	*1.00*	04/13/17	DD	1	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	04/13/17	DD	1	
Carbon Tetrachloride	0.080	*0.040*	0.50	*0.25*	04/13/17	DD	1	
Chlorobenzene	ND	*0.217*	ND	*1.00*	04/13/17	DD	1	
Chloroethane	ND	*0.379*	ND	*1.00*	04/13/17	DD	1	
Chloroform	ND	*0.205*	ND	*1.00*	04/13/17	DD	1	
Chloromethane	ND	*0.485*	ND	*1.00*	04/13/17	DD	1	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	04/13/17	DD	1	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	04/13/17	DD	1	
Cyclohexane	ND	*0.291*	ND	*1.00*	04/13/17	DD	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	04/13/17	DD	1	
Dichlorodifluoromethane	0.502	*0.202*	2.48	*1.00*	04/13/17	DD	1	
Ethanol	6.41	*0.531*	12.1	*1.00*	04/13/17	DD	1	1
Ethyl acetate	2.03	*0.278*	7.31	*1.00*	04/13/17	DD	1	1
Ethylbenzene	ND	*0.230*	ND	*1.00*	04/13/17	DD	1	
Heptane	0.391	*0.244*	1.60	*1.00*	04/13/17	DD	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	04/13/17	DD	1	
Hexane	ND	*0.284*	ND	*1.00*	04/13/17	DD	1	
Isopropylalcohol	1.20	*0.407*	2.95	*1.00*	04/13/17	DD	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	04/13/17	DD	1	
m,p-Xylene	0.569	*0.230*	2.47	*1.00*	04/13/17	DD	1	
Methyl Ethyl Ketone	0.473	*0.339*	1.39	*1.00*	04/13/17	DD	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	04/13/17	DD	1	
Methylene Chloride	11.9	*0.288*	41.3	*1.00*	04/13/17	DD	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	04/13/17	DD	1	1
o-Xylene	0.245	*0.230*	1.06	*1.00*	04/13/17	DD	1	
Propylene	0.901	*0.581*	1.55	*1.00*	04/13/17	DD	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	04/13/17	DD	1	1
Styrene	ND	*0.235*	ND	*1.00*	04/13/17	DD	1	
Tetrachloroethene	0.189	*0.037*	1.28	*0.25*	04/13/17	DD	1	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	04/13/17	DD	1	1
Toluene	1.30	*0.266*	4.90	*1.00*	04/13/17	DD	1	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	04/13/17	DD	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	04/13/17	DD	1	
Trichloroethene	ND	*0.047*	ND	*0.25*	04/13/17	DD	1	
Trichlorofluoromethane	0.267	*0.178*	1.50	*1.00*	04/13/17	DD	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	04/13/17	DD	1	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	04/13/17	DD	1	
QA/QC Surrogates								
% Bromofluorobenzene	115	*%*	115	*%*	04/13/17	DD	1	

Ver 1

Project ID: 32-12 58TH STREET
Client ID: OA-1

Phoenix I.D.: BY03107

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
April 19, 2017
Reviewed and Released by: Ethan Lee, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

April 19, 2017

QA/QC Data

SDG I.D.: GBY03105

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 382907 (ppbv), QC Sample No: BY03107 (BY03105, BY03106, BY03107)													
Volatiles													
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25	
1,1,1-Trichloroethane	ND	0.183	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2-Trichloroethane	ND	0.183	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethane	ND	0.247	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethene	ND	0.252	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25	
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	143	ND	ND	ND	ND	NC	70 - 130	25	l
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	114	ND	1.53	ND	0.311	NC	70 - 130	25	
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorobenzene	ND	0.166	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichloroethane	ND	0.247	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25	
1,2-dichloropropane	ND	0.216	ND	1.00	86	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25	
1,3-Butadiene	ND	0.452	ND	1.00	83	ND	ND	ND	ND	NC	70 - 130	25	
1,3-Dichlorobenzene	ND	0.166	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dichlorobenzene	ND	0.166	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dioxane	ND	0.278	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25	
2-Hexanone(MBK)	ND	0.244	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25	
4-Ethyltoluene	ND	0.204	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25	
4-Isopropyltoluene	ND	0.182	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25	
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25	
Acetone	ND	0.421	ND	1.00	92	17.9	29.9	7.55	12.6	50.1	70 - 130	25	r
Acrylonitrile	ND	0.461	ND	1.00	79	ND	ND	ND	ND	NC	70 - 130	25	
Benzene	ND	0.313	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25	
Benzyl chloride	ND	0.193	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
Bromodichloromethane	ND	0.149	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25	
Bromoform	ND	0.097	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25	
Bromomethane	ND	0.257	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Disulfide	ND	0.321	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Tetrachloride	ND	0.040	ND	0.25	116	0.50	0.69	0.080	0.109	NC	70 - 130	25	
Chlorobenzene	ND	0.217	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25	
Chloroethane	ND	0.379	ND	1.00	74	ND	ND	ND	ND	NC	70 - 130	25	
Chloroform	ND	0.205	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
Chloromethane	ND	0.484	ND	1.00	76	ND	ND	ND	ND	NC	70 - 130	25	
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	90	ND	ND	ND	ND	NC	70 - 130	25	
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25	
Cyclohexane	ND	0.291	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25	
Dibromochloromethane	ND	0.117	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25	
Dichlorodifluoromethane	ND	0.202	ND	1.00	111	2.48	2.56	0.502	0.519	NC	70 - 130	25	
Ethanol	ND	0.531	ND	1.00	75	12.1	365	6.41	194	187.2	70 - 130	25	r

QA/QC Data

SDG I.D.: GBY03105

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits	
Ethyl acetate	ND	0.278	ND	1.00	98	7.31	5.91	2.03	1.64	21.3	70 - 130	25	
Ethylbenzene	ND	0.230	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
Heptane	ND	0.244	ND	1.00	100	1.60	1.48	0.391	0.362	NC	70 - 130	25	
Hexachlorobutadiene	ND	0.094	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25	
Hexane	ND	0.284	ND	1.00	84	ND	ND	ND	ND	NC	70 - 130	25	
Isopropylalcohol	ND	0.407	ND	1.00	74	2.95	5.87	1.20	2.39	NC	70 - 130	25	
Isopropylbenzene	ND	0.204	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
m,p-Xylene	ND	0.230	ND	1.00	107	2.47	3.25	0.569	0.748	NC	70 - 130	25	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	82	1.39	2.04	0.473	0.693	NC	70 - 130	25	
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25	
Methylene Chloride	ND	0.288	ND	1.00	79	41.3 S	7.95 S	11.9 S	2.29 S	135.4	70 - 130	25	r
n-Butylbenzene	ND	0.182	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25	
o-Xylene	ND	0.230	ND	1.00	104	1.06	1.20	0.245	0.277	NC	70 - 130	25	
Propylene	ND	0.581	ND	1.00	78	1.55	2.49	0.901	1.45	NC	70 - 130	25	
sec-Butylbenzene	ND	0.182	ND	1.00	114	ND	1.67	ND	0.305	NC	70 - 130	25	
Styrene	ND	0.235	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
Tetrachloroethene	ND	0.037	ND	0.25	115	1.28	2.09	0.189	0.309	48.2	70 - 130	25	r
Tetrahydrofuran	ND	0.339	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25	
Toluene	ND	0.266	ND	1.00	104	4.90	6.82	1.30	1.81	NC	70 - 130	25	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
Trichloroethene	ND	0.047	ND	0.25	101	ND	ND	ND	ND	NC	70 - 130	25	
Trichlorofluoromethane	ND	0.178	ND	1.00	109	1.50	1.51	0.267	0.269	NC	70 - 130	25	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25	
Vinyl Chloride	ND	0.098	ND	0.25	85	ND	ND	ND	ND	NC	70 - 130	25	
% Bromofluorobenzene	110	%	110	%	96	115	117	115	117	NC	70 - 130	25	
QA/QC Batch 383260 (ppbv), QC Sample No: BY04726 (BY03105 (30X))													
Volatiles													
Acetone	ND	0.421	ND	1.00	78	27.1	23.6	11.4	9.95	13.6	70 - 130	25	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	91	11.0	10.3	3.73	3.49	6.6	70 - 130	25	
Propylene	ND	0.581	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25	
Tetrahydrofuran	ND	0.339	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25	
Toluene	ND	0.266	ND	1.00	97	6.18	5.76	1.64	1.53	NC	70 - 130	25	
Trichloroethene	ND	0.047	ND	0.25	90	ND	ND	ND	ND	NC	70 - 130	25	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
April 19, 2017

Wednesday, April 19, 2017

Criteria: NY: DOH

State: NY

Sample Criteria Exceedances Report

GBY03105 - AIRTEK

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 19, 2017 SDG I.D.: GBY03105

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM20 04/13/17-1: BY03105, BY03106, BY03107

The following Continuing Calibration compounds did not meet % deviation criteria: 1,4-Dichlorobenzene(sim) 33%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,4-Dichlorobenzene(sim) 33%H (30%)

CHAIN OF CUSTODY RECORD AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery:
Fax #:
Email: cchen@airtekenv.com

Report to:	Airtek Environmental Corp.	**Invoice to:**	Christine Chen	**Project Name:**	32-12 58th Street
Address:	39-37 29th Street, Long Island City, NY 11101	**Address:**	39-37 29th Street, Long Island City, NY 11101	**Location:**	Woodside, Queens
Project Mgr:	Christine Chen	**P.O. #**	16-0981	**State:**	NY 11377
Phone #	(718) 937-3720/(732) 670-6370 (Cell)	**Quote #**	Airtek 05/14/2015	**Sampled by:**	M. Rivera

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)		TO-14	TO-15				Is Canister Returned Unused? Y/N
		LAB USE ONLY											MATRIX				ANALYSES					
03105	SS-1	12864	6.0	-30	-5	5396	10.8	0835	1635	4/11/2017	-30	-5		X	X			X				
03106	IA-1	21323	6.0	-30	-6	4991	10.8	0811	1611	4/11/2017	-31	-6	X		X			X				
03107	OA-1	21333	6.0	-30	-5	5594	10.8	0821	1621	4/11/2017	-30	-4	X		X			X				

Relinquished by:	Accepted by:	Date:	Time:
M Rivera		4-12-17	12:45
		4-12-17	15:49

Criteria Requested: **Deliverable:**
RCP ☐
MCP ☐
State where samples collected: X **NY**

Data Format:
Excel X Equis ☐
PDF X Other: ☐
GISKey ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Please provide NYSDOH Criteria Comparing Data

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date: 4/11/17

APPENDIX B – VALIDATED LAB DATA

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Airtek Environmental Corp

32-12 58TH STREET

GBY03105

Ver 1

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PHOENIX
Environmental Laboratories, Inc.

Friday, May 19, 2017

Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Project ID: 32-12 58TH STREET
Sample ID#s: BY03105 - BY03107

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,



Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Airtek Environmental Corp

Project: 32-12 58TH STREET

Laboratory Project: GBY03105

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

NY Analytical Services Protocol Format

May 19, 2017

SDG I.D.: GBY03105

Airtek Environmental Corp 32-12 58TH STREET

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
SS-1	BY03105	AIR
IA-1	BY03106	AIR
OA-1	BY03107	AIR

Environmental Laboratories, Inc.
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NY # 11301

NY Analytical Services Protocol Format

May 19, 2017

SDG I.D.: GBY03105

Airtek Environmental Corp 32-12 58TH STREET

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
BY03105	Volatiles (TO15)	04/11/17	04/17/17	04/17/17	KCA	Y
BY03106	Volatiles (TO15)	04/11/17	04/13/17	04/13/17	DD	Y
BY03107	Volatiles (TO15)	04/11/17	04/13/17	04/13/17	DD	Y

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:35
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	12864				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03105

Project ID: 32-12 58TH STREET
Client ID: SS-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	KCA	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2,4-Trimethylbenzene	0.720	*0.204*	0.204	3.54	*1.00*	1.00	04/13/17	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	04/13/17	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	04/13/17	KCA	1	
1,3,5-Trimethylbenzene	0.237	*0.204*	0.204	1.16	*1.00*	1.00	04/13/17	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	04/13/17	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	04/13/17	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	04/13/17	KCA	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	04/13/17	KCA	1	1
4-Methyl-2-pentanone(MIBK)	2.38	*0.244*	0.244	9.7	*1.00*	1.00	04/13/17	KCA	1	
Acetone	293	D *12.6*	12.6	696	*29.9*	29.9	04/17/17	KCA	30	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	04/13/17	KCA	1	
Benzene	2.23	*0.313*	0.313	7.12	*1.00*	1.00	04/13/17	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	04/13/17	KCA	1	

Project ID: 32-12 58TH STREET
Client ID: SS-1

Phoenix I.D.: BY03105

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	04/13/17	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	04/13/17	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	04/13/17	KCA	1	
Carbon Disulfide	0.699		*0.321*	0.321	2.18	*1.00*	1.00	04/13/17	KCA	1	
Carbon Tetrachloride	0.192		*0.040*	0.040	1.21	*0.25*	0.25	04/13/17	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	04/13/17	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	04/13/17	KCA	1	
Chloroform	1.50		*0.205*	0.205	7.32	*1.00*	1.00	04/13/17	KCA	1	
Chloromethane	ND		*0.485*	0.485	ND	*1.00*	1.00	04/13/17	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	04/13/17	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	04/13/17	KCA	1	
Cyclohexane	ND		*0.291*	0.291	ND	*1.00*	1.00	04/13/17	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	04/13/17	KCA	1	
Dichlorodifluoromethane	ND		*0.202*	0.202	ND	*1.00*	1.00	04/13/17	KCA	1	
Ethanol	41.8	E	*0.531*	0.531	78.7	*1.00*	1.00	04/13/17	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	04/13/17	KCA	1	1
Ethylbenzene	5.21		*0.230*	0.230	22.6	*1.00*	1.00	04/13/17	KCA	1	
Heptane	ND		*0.244*	0.244	ND	*1.00*	1.00	04/13/17	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	04/13/17	KCA	1	
Hexane	ND		*0.284*	0.284	ND	*1.00*	1.00	04/13/17	KCA	1	
Isopropylalcohol	ND		*0.407*	0.407	ND	*1.00*	1.00	04/13/17	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	04/13/17	KCA	1	
m,p-Xylene	23.3		*0.230*	0.230	101	*1.00*	1.00	04/13/17	KCA	1	
Methyl Ethyl Ketone	54.5	D	*10.2*	10.2	161	*30.1*	30.1	04/17/17	KCA	30	
Methyl tert-butyl ether(MTBE)	0.824		*0.278*	0.278	2.97	*1.00*	1.00	04/13/17	KCA	1	
Methylene Chloride	ND		*0.288*	0.288	ND	*1.00*	1.00	04/13/17	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	04/13/17	KCA	1	1
o-Xylene	4.11		*0.230*	0.230	17.8	*1.00*	1.00	04/13/17	KCA	1	
Propylene	46.4	D	*17.4*	17.4	79.8	*29.9*	29.9	04/17/17	KCA	30	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	04/13/17	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	04/13/17	KCA	1	
Tetrachloroethene	4.59		*0.037*	0.037	31.1	*0.25*	0.25	04/13/17	KCA	1	
Tetrahydrofuran	29.5	D	*10.2*	10.2	86.9	*30.1*	30.1	04/17/17	KCA	30	1
Toluene	64.5	D	*7.97*	7.97	243	*30.0*	30.0	04/17/17	KCA	30	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	04/13/17	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	04/13/17	KCA	1	
Trichloroethene	59.2	D	*1.40*	1.40	318	*7.52*	7.52	04/17/17	KCA	30	
Trichlorofluoromethane	0.250		*0.178*	0.178	1.40	*1.00*	1.00	04/13/17	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	04/13/17	KCA	1	
Vinyl Chloride	ND		*0.098*	0.098	ND	*0.25*	0.25	04/13/17	KCA	1	
QA/QC Surrogates											
% Bromofluorobenzene	113		*%*	%	113	*%*	%	04/13/17	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 19, 2017

Reviewed and Released by: Jon Carlson, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

May 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:11
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	21323				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03106

Project ID: 32-12 58TH STREET
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	DD	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	DD	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	DD	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	DD	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	DD	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	04/13/17	DD	1	
1,2,4-Trimethylbenzene	0.329	*0.204*	0.204	1.62	*1.00*	1.00	04/13/17	DD	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	04/13/17	DD	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	04/13/17	DD	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	04/13/17	DD	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	04/13/17	DD	1	
Acetone	11.7	*0.421*	0.421	27.8	*1.00*	1.00	04/13/17	DD	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	04/13/17	DD	1	
Benzene	0.329	*0.313*	0.313	1.05	*1.00*	1.00	04/13/17	DD	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	04/13/17	DD	1	

Project ID: 32-12 58TH STREET
Client ID: IA-1

Phoenix I.D.: BY03106

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	04/13/17	DD	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	04/13/17	DD	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	04/13/17	DD	1	
Carbon Disulfide	ND		*0.321*	0.321	ND	*1.00*	1.00	04/13/17	DD	1	
Carbon Tetrachloride	0.109		*0.040*	0.040	0.69	*0.25*	0.25	04/13/17	DD	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	04/13/17	DD	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	04/13/17	DD	1	
Chloroform	ND		*0.205*	0.205	ND	*1.00*	1.00	04/13/17	DD	1	
Chloromethane	ND		*0.485*	0.485	ND	*1.00*	1.00	04/13/17	DD	1	
Cis-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	04/13/17	DD	1	
Cyclohexane	ND		*0.291*	0.291	ND	*1.00*	1.00	04/13/17	DD	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	04/13/17	DD	1	
Dichlorodifluoromethane	0.554		*0.202*	0.202	2.74	*1.00*	1.00	04/13/17	DD	1	
Ethanol	179	E	*0.531*	0.531	337	*1.00*	1.00	04/13/17	DD	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	04/13/17	DD	1	1
Ethylbenzene	ND		*0.230*	0.230	ND	*1.00*	1.00	04/13/17	DD	1	
Heptane	0.320		*0.244*	0.244	1.31	*1.00*	1.00	04/13/17	DD	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	04/13/17	DD	1	
Hexane	ND		*0.284*	0.284	ND	*1.00*	1.00	04/13/17	DD	1	
Isopropylalcohol	2.17		*0.407*	0.407	5.33	*1.00*	1.00	04/13/17	DD	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	
m,p-Xylene	0.747		*0.230*	0.230	3.24	*1.00*	1.00	04/13/17	DD	1	
Methyl Ethyl Ketone	0.659		*0.339*	0.339	1.94	*1.00*	1.00	04/13/17	DD	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	04/13/17	DD	1	
Methylene Chloride	2.16	S	*0.288*	0.288	7.50	*1.00*	1.00	04/13/17	DD	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
o-Xylene	0.291		*0.230*	0.230	1.26	*1.00*	1.00	04/13/17	DD	1	
Propylene	1.62		*0.581*	0.581	2.79	*1.00*	1.00	04/13/17	DD	1	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	04/13/17	DD	1	
Tetrachloroethene	0.352		*0.037*	0.037	2.39	*0.25*	0.25	04/13/17	DD	1	
Tetrahydrofuran	ND		*0.339*	0.339	ND	*1.00*	1.00	04/13/17	DD	1	1
Toluene	1.77		*0.266*	0.266	6.67	*1.00*	1.00	04/13/17	DD	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	04/13/17	DD	1	
Trichloroethene	ND		*0.047*	0.047	ND	*0.25*	0.25	04/13/17	DD	1	
Trichlorofluoromethane	0.266		*0.178*	0.178	1.49	*1.00*	1.00	04/13/17	DD	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	04/13/17	DD	1	
Vinyl Chloride	ND		*0.098*	0.098	ND	*0.25*	0.25	04/13/17	DD	1	
QA/QC Surrogates											
% Bromofluorobenzene	118		*%*	%	118	*%*	%	04/13/17	DD	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 19, 2017
Reviewed and Released by: Jon Carlson, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

May 19, 2017

FOR: Attn: Christine Chen
Airtek Environmental Corp
39-37 29th Street
Long Island City, NY 11101

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	MR	04/11/17	16:21
Location Code:	AIRTEK	Received by:	SW	04/12/17	15:49
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	16-0981				
Canister Id:	21333				

Laboratory Data

SDG ID: GBY03105
Phoenix ID: BY03107

Project ID: 32-12 58TH STREET
Client ID: OA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	DD	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	DD	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	04/13/17	DD	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	04/13/17	DD	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	DD	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	04/13/17	DD	1	
1,2,4-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	04/13/17	DD	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	04/13/17	DD	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	04/13/17	DD	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	04/13/17	DD	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	04/13/17	DD	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	04/13/17	DD	1	
Acetone	7.55	*0.421*	0.421	17.9	*1.00*	1.00	04/13/17	DD	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	04/13/17	DD	1	
Benzene	ND	*0.313*	0.313	ND	*1.00*	1.00	04/13/17	DD	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	04/13/17	DD	1	

Project ID: 32-12 58TH STREET
Client ID: OA-1

Phoenix I.D.: BY03107

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	04/13/17	DD	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	04/13/17	DD	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	04/13/17	DD	1	
Carbon Disulfide	ND	*0.321*	0.321	ND	*1.00*	1.00	04/13/17	DD	1	
Carbon Tetrachloride	0.080	*0.040*	0.040	0.50	*0.25*	0.25	04/13/17	DD	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	04/13/17	DD	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	04/13/17	DD	1	
Chloroform	ND	*0.205*	0.205	ND	*1.00*	1.00	04/13/17	DD	1	
Chloromethane	ND	*0.485*	0.485	ND	*1.00*	1.00	04/13/17	DD	1	
Cis-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	04/13/17	DD	1	
Cyclohexane	ND	*0.291*	0.291	ND	*1.00*	1.00	04/13/17	DD	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	04/13/17	DD	1	
Dichlorodifluoromethane	0.502	*0.202*	0.202	2.48	*1.00*	1.00	04/13/17	DD	1	
Ethanol	6.41	*0.531*	0.531	12.1	*1.00*	1.00	04/13/17	DD	1	1
Ethyl acetate	2.03	*0.278*	0.278	7.31	*1.00*	1.00	04/13/17	DD	1	1
Ethylbenzene	ND	*0.230*	0.230	ND	*1.00*	1.00	04/13/17	DD	1	
Heptane	0.391	*0.244*	0.244	1.60	*1.00*	1.00	04/13/17	DD	1	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	04/13/17	DD	1	
Hexane	ND	*0.284*	0.284	ND	*1.00*	1.00	04/13/17	DD	1	
Isopropylalcohol	1.20	*0.407*	0.407	2.95	*1.00*	1.00	04/13/17	DD	1	
Isopropylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	04/13/17	DD	1	
m,p-Xylene	0.569	*0.230*	0.230	2.47	*1.00*	1.00	04/13/17	DD	1	
Methyl Ethyl Ketone	0.473	*0.339*	0.339	1.39	*1.00*	1.00	04/13/17	DD	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	04/13/17	DD	1	
Methylene Chloride	11.9	*0.288*	0.288	41.3	*1.00*	1.00	04/13/17	DD	1	
n-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
o-Xylene	0.245	*0.230*	0.230	1.06	*1.00*	1.00	04/13/17	DD	1	
Propylene	0.901	*0.581*	0.581	1.55	*1.00*	1.00	04/13/17	DD	1	1
sec-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	04/13/17	DD	1	1
Styrene	ND	*0.235*	0.235	ND	*1.00*	1.00	04/13/17	DD	1	
Tetrachloroethene	0.189	*0.037*	0.037	1.28	*0.25*	0.25	04/13/17	DD	1	
Tetrahydrofuran	ND	*0.339*	0.339	ND	*1.00*	1.00	04/13/17	DD	1	1
Toluene	1.30	*0.266*	0.266	4.90	*1.00*	1.00	04/13/17	DD	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	04/13/17	DD	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	04/13/17	DD	1	
Trichloroethene	ND	*0.047*	0.047	ND	*0.25*	0.25	04/13/17	DD	1	
Trichlorofluoromethane	0.267	*0.178*	0.178	1.50	*1.00*	1.00	04/13/17	DD	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	04/13/17	DD	1	
Vinyl Chloride	ND	*0.098*	0.098	ND	*0.25*	0.25	04/13/17	DD	1	
QA/QC Surrogates										
% Bromofluorobenzene	115	%	%	115	%	%	04/13/17	DD	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 19, 2017
Reviewed and Released by: Jon Carlson, Project Manager

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 19, 2017

QA/QC Data

SDG I.D.: GBY03105

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 382907 (ppbv), QC Sample No: BY03107 (BY03105, BY03106, BY03107)													
Volatiles													
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25	
1,1,1-Trichloroethane	ND	0.183	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2-Trichloroethane	ND	0.183	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethane	ND	0.247	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethene	ND	0.252	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25	
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	143	ND	ND	ND	ND	NC	70 - 130	25	l
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	114	ND	1.53	ND	0.311	NC	70 - 130	25	
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorobenzene	ND	0.166	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichloroethane	ND	0.247	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25	
1,2-dichloropropane	ND	0.216	ND	1.00	86	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25	
1,3-Butadiene	ND	0.452	ND	1.00	83	ND	ND	ND	ND	NC	70 - 130	25	
1,3-Dichlorobenzene	ND	0.166	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dichlorobenzene	ND	0.166	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dioxane	ND	0.278	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25	
2-Hexanone(MBK)	ND	0.244	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25	
4-Ethyltoluene	ND	0.204	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25	
4-Isopropyltoluene	ND	0.182	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25	
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25	
Acetone	ND	0.421	ND	1.00	92	17.9	29.9	7.55	12.6	50.1	70 - 130	25	r
Acrylonitrile	ND	0.461	ND	1.00	79	ND	ND	ND	ND	NC	70 - 130	25	
Benzene	ND	0.313	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25	
Benzyl chloride	ND	0.193	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
Bromodichloromethane	ND	0.149	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25	
Bromoform	ND	0.097	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25	
Bromomethane	ND	0.257	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Disulfide	ND	0.321	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Tetrachloride	ND	0.040	ND	0.25	116	0.50	0.69	0.080	0.109	NC	70 - 130	25	
Chlorobenzene	ND	0.217	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25	
Chloroethane	ND	0.379	ND	1.00	74	ND	ND	ND	ND	NC	70 - 130	25	
Chloroform	ND	0.205	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
Chloromethane	ND	0.484	ND	1.00	76	ND	ND	ND	ND	NC	70 - 130	25	
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	90	ND	ND	ND	ND	NC	70 - 130	25	
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25	
Cyclohexane	ND	0.291	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25	
Dibromochloromethane	ND	0.117	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25	
Dichlorodifluoromethane	ND	0.202	ND	1.00	111	2.48	2.56	0.502	0.519	NC	70 - 130	25	
Ethanol	ND	0.531	ND	1.00	75	12.1	365	6.41	194	187.2	70 - 130	25	r

QA/QC Data

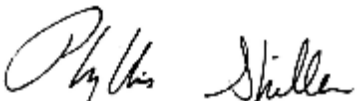
SDG I.D.: GBY03105

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits	
Ethyl acetate	ND	0.278	ND	1.00	98	7.31	5.91	2.03	1.64	21.3	70 - 130	25	
Ethylbenzene	ND	0.230	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
Heptane	ND	0.244	ND	1.00	100	1.60	1.48	0.391	0.362	NC	70 - 130	25	
Hexachlorobutadiene	ND	0.094	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25	
Hexane	ND	0.284	ND	1.00	84	ND	ND	ND	ND	NC	70 - 130	25	
Isopropylalcohol	ND	0.407	ND	1.00	74	2.95	5.87	1.20	2.39	NC	70 - 130	25	
Isopropylbenzene	ND	0.204	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
m,p-Xylene	ND	0.230	ND	1.00	107	2.47	3.25	0.569	0.748	NC	70 - 130	25	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	82	1.39	2.04	0.473	0.693	NC	70 - 130	25	
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25	
Methylene Chloride	ND	0.288	ND	1.00	79	41.3 S	7.95 S	11.9 S	2.29 S	135.4	70 - 130	25	r
n-Butylbenzene	ND	0.182	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25	
o-Xylene	ND	0.230	ND	1.00	104	1.06	1.20	0.245	0.277	NC	70 - 130	25	
Propylene	ND	0.581	ND	1.00	78	1.55	2.49	0.901	1.45	NC	70 - 130	25	
sec-Butylbenzene	ND	0.182	ND	1.00	114	ND	1.67	ND	0.305	NC	70 - 130	25	
Styrene	ND	0.235	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25	
Tetrachloroethene	ND	0.037	ND	0.25	115	1.28	2.09	0.189	0.309	48.2	70 - 130	25	r
Tetrahydrofuran	ND	0.339	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25	
Toluene	ND	0.266	ND	1.00	104	4.90	6.82	1.30	1.81	NC	70 - 130	25	
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25	
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25	
Trichloroethene	ND	0.047	ND	0.25	101	ND	ND	ND	ND	NC	70 - 130	25	
Trichlorofluoromethane	ND	0.178	ND	1.00	109	1.50	1.51	0.267	0.269	NC	70 - 130	25	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25	
Vinyl Chloride	ND	0.098	ND	0.25	85	ND	ND	ND	ND	NC	70 - 130	25	
% Bromofluorobenzene	110	%	110	%	96	115	117	115	117	NC	70 - 130	25	
QA/QC Batch 383260 (ppbv), QC Sample No: BY04726 (BY03105 (30X))													
Volatiles													
Acetone	ND	0.421	ND	1.00	78	27.1	23.6	11.4	9.95	13.6	70 - 130	25	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	91	11.0	10.3	3.73	3.49	6.6	70 - 130	25	
Propylene	ND	0.581	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25	
Tetrahydrofuran	ND	0.339	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25	
Toluene	ND	0.266	ND	1.00	97	6.18	5.76	1.64	1.53	NC	70 - 130	25	
Trichloroethene	ND	0.047	ND	0.25	90	ND	ND	ND	ND	NC	70 - 130	25	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
May 19, 2017

Sample Criteria Exceedances Report

GBY03105 - AIRTEK

Criteria: NY: DOH
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD AIR ANALYSES

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery:
Fax #: _____
Email: cchen@airtekenv.com

Report to:	Airtek Environmental Corp.	Invoice to:	Christine Chen	Project Name:	32-12 58th Street
Address:	39-37 29th Street, Long Island City, NY 11101	Address:	39-37 29th Street, Long Island City, NY 11101	Location:	Woodside, Queens
Project Mgr:	Christine Chen	P.O. #	16-0981	State:	NY 11377
Phone #	(718) 937-3720/(732) 670-6370 (Cell)	Quote #	Airtek 05/14/2015	Sampled by:	M. Rivera

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15	Is Canister Returned Unused? Y/N
		LAB USE ONLY											MATRIX			ANALYSES		
03105	SS-1	12864	6.0	-30	-5	5396	10.8	0835	1635	4/11/2017	-30	-5		X	X		X	
03106	IA-1	21323	6.0	-30	-6	4991	10.8	0811	1611	4/11/2017	-31	-6	X		X		X	
03107	OA-1	21333	6.0	-30	-5	5594	10.8	0821	1621	4/11/2017	-30	-4	X		X		X	

Relinquished by:	Accepted by:	Date:	Time:
		4-12-17	1245
		4-12-17	1549

Criteria Requested: Deliverable:
RCP ☐
MCP ☐
State where samples collected: X NY

Data Format:
Excel X Equis ☐
PDF X Other: ☐
GISKey ☐

SPECIAL INSTRUCTIONS: Please provide NYSDOH Criteria Comparing Data

QC REQUIREMENTS, REGULATORY INFORMATION:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: _____ Date: 4/11/17

05/19/2017
Phoenix Environmental Laboratories, Inc.
Page 20 of 351

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Airtek Environmental Corp

32-12 58TH STREET

Laboratory Project: GBY03105

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit
The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level
This value is at or above the MDL and is supported by the lowest calibration standard.

· Q Qualifiers:

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the “U” represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

J - Indicates an estimated value, may indicate one of the following, depending on the situation:
a) The reported value is estimated and below the MDL
b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the indentification criteria, but the results is less than the quantitation limit, but greater than zero.
c) QC associated with this analyte is within warning limits.

X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.

JL- The value is estimated. This flag is used on the form 1 when a compound is evaluated to the requested criteria. This value may be below the MDL.

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

B - This compound was also present in the method blank

D - The reported concentration is the result of a diluted analysis.

E - The reported value is estimated because the concentration exceeded the calibration range.

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

P- Percent difference is greater than 25% between the two GC columns and the lower result is reported.

PHOENIX
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GBY03105

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 32-12 58TH STREET, Airtek Environmental Corp

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: BY03107 LCS
All LCS recoveries met criteria with the following exceptions: 1,2,4-Trichlorobenzene 143%

Sample: BY04726 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM20 0412_38.D
All compounds were non-detect with the following exceptions: None.

File: CHEM24 0417_06.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0405_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0412_32.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0411_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0417_02.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 04/05/17 - 04/05/17
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 04/11/17 - 04/12/17
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0412_33.D (Opening)
The following compounds did not meet maximum % deviations: 1,4-Dichlorobenzene(sim) -33.0% (30)

File: CHEM20 0412_34.D (Opening)

PHOENIX
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GBY03105

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 32-12 58TH STREET, Airtek Environmental Corp

The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene -47.0% (30)

File: CHEM20 0412_61.D (Closing)
The following compounds did not meet maximum % deviations: 1,4-Dichlorobenzene(sim) -36.2% (30), 4-Isopropyltoluene(sim) -31.3% (30)

File: CHEM20 0412_62.D (Closing)
The following compounds did not meet maximum % deviations: Ethanol 32.4% (30), 1,4-Dichlorobenzene -30.6% (30), 1,2,4-Trichlorobenzene -54.7% (30)

File: CHEM24 0417_02.D (Opening)
The following compounds did not meet maximum % deviations: None.

File: CHEM24 0417_03.D (Opening)
The following compounds did not meet maximum % deviations: Ethanol 31.5% (30)

File: CHEM24 0417_31.D (Closing)
The following compounds did not meet maximum % deviations: Trichlorofluoromethane(sim) 30.5% (30)

File: CHEM24 0417_32.D (Closing)
The following compounds did not meet maximum % deviations: Ethanol 36.9% (30), Acetone 30.1% (30), Methylene Chloride 30.9% (30)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 0405_08.D Full
All samples met internal standard area and retention time critieria with the following exceptions:
0405_13.D - ICAL 40: Chlorobenzene-d5; Area 348206 (146769 - 346571)

File: CHEM20 - 0405_08.D Sim
All samples met internal standard area and retention time critieria with the following exceptions:
0405_12.D - ICAL 25: Chlorobenzene-d5; Area 336052 (137387 - 324419)
0405_13.D - ICAL 40: Chlorobenzene-d5; Area 382219 (137387 - 324419)

File: CHEM20 - 0412_33.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM20 - 0412_34.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 0411_08.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 0411_08.D Sim
All samples met internal standard area and retention time critieria with the following exceptions:
0411_13.D - ICAL 40: Chlorobenzene-d5; Area 397958 (154978 - 365957)

File: CHEM24 - 0417_02.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 0417_03.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GBY03105

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 32-12 58TH STREET, Airtek Environmental Corp

05/16/17

Jon Carlson
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SDG: GBY03105

QC Batch Id: 382907 QC Sample Id: BY03107

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	BY03107 LCS	BY03107 LCS	96				0
02	BY03107 BLANK	BY03107 BLANK	110				0
03	IA-1	BY03106	118				0
04	OA-1	BY03107	115				0
05	OA-1 DUP	BY03107 DUP	117				0
06	SS-1	BY03105	113				0
07							
08							
09							
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			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SDG: GBY03105

QC Batch Id: 383260 QC Sample Id: BY04726

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	BY04726 LCS	BY04726 LCS	99				0
02	BY04726 BLANK	BY04726 BLANK	111				0
03	SS-1 DIL	BY03105 30X	106				0
04	BY04726 QC	BY04726	106				0
05	BY04726 DUP	BY04726 DUP	105				0
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			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No: SAS No: SDG No GBY03105

LCS - Client Id: BY03107 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		7.799	78	70	130
Dichlorodifluoromethane	10		11.12	111	70	130
Chloromethane	10		7.562	76	70	130
1,2-Dichlorotetrafluoroethane	10		10.23	102	70	130
Vinyl Chloride	10		8.451	85	70	130
1,3-Butadiene	10		8.254	83	70	130
Bromomethane	10		8.510	85	70	130
Chloroethane	10		7.382	74	70	130
Ethanol	6		4.473	75	70	130
Acetone	10		9.183	92	70	130
Trichlorofluoromethane	10		10.87	109	70	130
Isopropylalcohol	10		7.414	74	70	130
Acrylonitrile	10		7.936	79	70	130
1,1-Dichloroethene	10		9.692	97	70	130
Methylene Chloride	10		7.947	79	70	130
Carbon Disulfide	10		8.685	87	70	130
Trichlorotrifluoroethane	10		9.677	97	70	130
Trans-1,2-Dichloroethene	10		9.594	96	70	130
1,1-Dichloroethane	10		10.34	103	70	130
Methyl tert-butyl ether(MTBE)	10		9.844	98	70	130
Methyl Ethyl Ketone	10		8.156	82	70	130
Cis-1,2-Dichloroethene	10		9.000	90	70	130
Hexane	10		8.420	84	70	130
Chloroform	10		9.608	96	70	130
Ethyl acetate	10		9.786	98	70	130
Tetrahydrofuran	10		8.762	88	70	130
1,2-Dichloroethane	10		10.47	105	70	130
1,1,1-Trichloroethane	10		10.98	110	70	130
Benzene	10		8.464	85	70	130
Carbon Tetrachloride	10		11.59	116	70	130
Cyclohexane	10		10.69	107	70	130
1,2-dichloropropane	10		8.582	86	70	130
Bromodichloromethane	10		9.778	98	70	130
Trichloroethene	10		10.08	101	70	130
1,4-Dioxane	10		9.353	94	70	130
Heptane	10		9.975	100	70	130
cis-1,3-Dichloropropene	10		10.02	100	70	130
4-Methyl-2-pentanone(MIBK)	10		11.24	112	70	130
trans-1,3-Dichloropropene	10		10.34	103	70	130
1,1,2-Trichloroethane	10		9.552	96	70	130
Toluene	10		10.38	104	70	130
Dibromochloromethane	10		10.70	107	70	130
2-Hexanone(MBK)	10		11.43	114	70	130
1,2-Dibromoethane(EDB)	10		10.20	102	70	130
Tetrachloroethene	10		11.49	115	70	130

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No: SAS No: SDG No GBY03105

LCS - Client Id: BY03107 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
1,1,1,2-Tetrachloroethane	10		10.13	101	70	130
Chlorobenzene	10		9.117	91	70	130
Ethylbenzene	10		10.17	102	70	130
m,p-Xylene	20		21.37	107	70	130
Bromoform	10		10.38	104	70	130
Styrene	10		10.58	106	70	130
1,1,2,2-Tetrachloroethane	10		8.700	87	70	130
o-Xylene	10		10.40	104	70	130
Isopropylbenzene	10		10.32	103	70	130
4-Ethyltoluene	10		11.30	113	70	130
1,3,5-Trimethylbenzene	10		10.39	104	70	130
1,2,4-Trimethylbenzene	10		11.38	114	70	130
Benzyl chloride	10		10.57	106	70	130
1,3-Dichlorobenzene	10		11.10	111	70	130
1,4-Dichlorobenzene	10		11.66	117	70	130
sec-Butylbenzene	10		11.38	114	70	130
4-Isopropyltoluene	10		11.86	119	70	130
1,2-Dichlorobenzene	10		10.56	106	70	130
n-Butylbenzene	10		11.82	118	70	130
1,2,4-Trichlorobenzene	10		14.27	143 *	70	130
Hexachlorobutadiene	10		11.70	117	70	130

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No: SAS No: SDG No GBY03105

LCS - Client Id: BY04726 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		8.899	89	70	130
Dichlorodifluoromethane	10		8.592	86	70	130
Chloromethane	10		8.980	90	70	130
1,2-Dichlorotetrafluoroethane	10		9.162	92	70	130
Vinyl Chloride	10		9.175	92	70	130
1,3-Butadiene	10		9.518	95	70	130
Bromomethane	10		8.677	87	70	130
Chloroethane	10		8.764	88	70	130
Ethanol	6		4.831	81	70	130
Acetone	10		7.838	78	70	130
Trichlorofluoromethane	10		8.515	85	70	130
Isopropylalcohol	10		8.475	85	70	130
Acrylonitrile	10		9.079	91	70	130
1,1-Dichloroethene	10		8.651	87	70	130
Methylene Chloride	10		7.474	75	70	130
Carbon Disulfide	10		8.982	90	70	130
Trichlorotrifluoroethane	10		8.395	84	70	130
Trans-1,2-Dichloroethene	10		9.302	93	70	130
1,1-Dichloroethane	10		9.013	90	70	130
Methyl tert-butyl ether(MTBE)	10		9.476	95	70	130
Methyl Ethyl Ketone	10		9.079	91	70	130
Cis-1,2-Dichloroethene	10		8.654	87	70	130
Hexane	10		9.130	91	70	130
Chloroform	10		8.519	85	70	130
Ethyl acetate	10		10.76	108	70	130
Tetrahydrofuran	10		9.897	99	70	130
1,2-Dichloroethane	10		8.839	88	70	130
1,1,1-Trichloroethane	10		8.405	84	70	130
Benzene	10		8.830	88	70	130
Carbon Tetrachloride	10		8.582	86	70	130
Cyclohexane	10		9.570	96	70	130
1,2-dichloropropane	10		9.526	95	70	130
Bromodichloromethane	10		8.651	87	70	130
Trichloroethene	10		9.034	90	70	130
1,4-Dioxane	10		9.187	92	70	130
Heptane	10		9.574	96	70	130
cis-1,3-Dichloropropene	10		9.612	96	70	130
4-Methyl-2-pentanone(MIBK)	10		9.700	97	70	130
trans-1,3-Dichloropropene	10		9.077	91	70	130
1,1,2-Trichloroethane	10		9.285	93	70	130
Toluene	10		9.654	97	70	130
Dibromochloromethane	10		9.094	91	70	130
2-Hexanone(MBK)	10		9.544	95	70	130
1,2-Dibromoethane(EDB)	10		8.946	89	70	130
Tetrachloroethene	10		9.052	91	70	130

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No: SAS No: SDG No GBY03105

LCS - Client Id: BY04726 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
1,1,1,2-Tetrachloroethane	10		9.782	98	70	130
Chlorobenzene	10		9.088	91	70	130
Ethylbenzene	10		9.447	94	70	130
m,p-Xylene	20		19.20	96	70	130
Bromoform	10		8.772	88	70	130
Styrene	10		10.17	102	70	130
1,1,2,2-Tetrachloroethane	10		8.993	90	70	130
o-Xylene	10		9.638	96	70	130
Isopropylbenzene	10		9.706	97	70	130
4-Ethyltoluene	10		9.417	94	70	130
1,3,5-Trimethylbenzene	10		8.823	88	70	130
1,2,4-Trimethylbenzene	10		8.988	90	70	130
Benzyl chloride	10		9.092	91	70	130
1,3-Dichlorobenzene	10		8.538	85	70	130
1,4-Dichlorobenzene	10		8.736	87	70	130
sec-Butylbenzene	10		8.529	85	70	130
4-Isopropyltoluene	10		8.685	87	70	130
1,2-Dichlorobenzene	10		8.793	88	70	130
n-Butylbenzene	10		9.410	94	70	130
1,2,4-Trichlorobenzene	10		10.57	106	70	130
Hexachlorobutadiene	10		9.028	90	70	130

4A

AIR METHOD BLANK SUMMARY

Client ID: BY03107 BLANK

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0412_38.D Lab Sample ID: BY03107 BLK

Date Analyzed: 04/13/2017 Time Analyzed: 16:05

GC Column: zb-1ms Lab Batch ID: 382907

Instrument ID: CHEM20 Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BY03107 LCS	BY03107 LCS	0412_35.D	14:19
02	IA-1	BY03106	0412_41.D	19:14
03	OA-1	BY03107	0412_42.D	19:55
04	OA-1 DUP	BY03107 DUP	0412_43.D	20:35
05	SS-1	BY03105	0412_45.D	21:57
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COMMENTS:

FORM IV AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: BY04726 BLANK

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0417_06.D Lab Sample ID: BY04726 BLK

Date Analyzed: 04/17/2017 Time Analyzed: 12:11

GC Column: zb-1ms Lab Batch ID: 383260

Instrument ID: CHEM24 Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BY04726 LCS	BY04726 LCS	0417_04.D	11:08
02	SS-1 DIL	BY03105 30X	0417_08.D	13:11
03	BY04726 QC	BY04726	0417_21.D	20:26
04	BY04726 DUP	BY04726 DUP	0417_22.D	21:19
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COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0405_02.D BFB Injection Date: 04/05/17

Instrument ID: CHEM20 BFB Injection Time: 11:26

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 986, 987, 988; Background Corrected with Scan 981

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	30.3			
75	30.0 - 66.0% of mass 95	59.0			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.8			
173	Less than 2.0% of mass 174	0.0	(	0.0	)1
174	50.0 - 120.0% of mass 95	115.0			
175	4.0 - 9.0% of mass 174	7.7	(	8.9	)1
176	93.0 - 101.0% of mass 174	98.9	(	113.0	)1
177	5.0 - 9.0% of mass 176	6.6	(	7.5	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.035	0.035ppb	0405_03.D	04/05/17	12:02	
02	ICAL 0.05	0.05ppb;air03m	0405_04.D	04/05/17	12:39	
03	ICAL 0.1	0.10ppb;air03m	0405_05.D	04/05/17	13:15	
04	ICAL 0.25	0.2ppb;air03m	0405_06.D	04/05/17	13:52	
05	ICAL 0.5	0.5ppb;air03m	0405_07.D	04/05/17	14:31	
06	ICAL 1	1.0ppb;air03y	0405_08.D	04/05/17	15:07	
07	ICAL 2.5	2.5ppb;air03y	0405_09.D	04/05/17	15:45	
08	ICAL 5	5.0ppb;air03w	0405_10.D	04/05/17	16:22	
09	ICAL 10	10ppb;air03w	0405_11.D	04/05/17	16:58	
10	ICAL 25	25ppb;air03w	0405_12.D	04/05/17	17:37	
11	ICAL 40	40ppb;air03w	0405_13.D	04/05/17	18:16	
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(*) Outside 24 hr clock

FORM V AIR

tuner0405_02.txt
CLPBFB

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 05 Apr 2017 11:26 am
Operator : CORTEX\ms
Sample : 0/0
Misc : istd;air05d
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 08:58:57 2017

AutoFind: Scans 986, 987, 988; Background Corrected with Scan 981

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.3	67011	PASS
75	95	30	66	59.0	130299	PASS
95	95	100	100	100.0	220843	PASS
96	95	5	9	6.8	15057	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	114.7	253397	PASS
175	174	4	9	7.7	19596	PASS
176	174	93	101	98.9	250496	PASS
177	176	5	9	6.6	16505	PASS

20_AIR_0405.M Wed Apr 19 12:49:59 2017

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0412_32.D BFB Injection Date: 04/13/17

Instrument ID: CHEM20 BFB Injection Time: 12:27

GC Column: zb-1ms Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 10.689 to 10.704 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	35.6			
75	30.0 - 66.0% of mass 95	64.0			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	7.8			
173	Less than 2.0% of mass 174	0.4	(	0.3	)1
174	50.0 - 120.0% of mass 95	115.0			
175	4.0 - 9.0% of mass 174	8.5	(	9.7	)1
176	93.0 - 101.0% of mass 174	94.8	(	109.0	)1
177	5.0 - 9.0% of mass 176	6.8	(	7.4	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb; air04q	0412_33.D	04/13/17	13:04	
02	CCAL 10	10ppb;04v	0412_34.D	04/13/17	13:40	
03	BY03107 LCS	BY03107 LCS	0412_35.D	04/13/17	14:19	
04	BY03107 BLANK	BY03107 BLANK	0412_38.D	04/13/17	16:05	
05	IA-1	BY03106	0412_41.D	04/13/17	19:14	
06	OA-1	BY03107	0412_42.D	04/13/17	19:55	
07	OA-1 DUP	BY03107 DUP	0412_43.D	04/13/17	20:35	
08	SS-1	BY03105	0412_45.D	04/13/17	21:57	
09	CCAL 1	1.0	0412_61.D	04/14/17	08:09	
10	CCAL 10	10	0412_62.D	04/14/17	08:46	
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(*) Outside 24 hr clock

FORM V AIR

tuner0412_32.txt
CLPBFB

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_32.D
Acq On : 13 Apr 2017 12:27 pm
Operator : CORTEX\ms
Sample : 0/0
Misc : istd;air05v
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 08:58:57 2017

Spectrum Information: Average of 10.689 to 10.704 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	35.6	23403	PASS
75	95	30	66	64.0	42028	PASS
95	95	100	100	100.0	65686	PASS
96	95	5	9	7.8	5121	PASS
173	174	0.00	2	0.3	238	PASS
174	95	50	120	114.8	75410	PASS
175	174	4	9	8.5	6372	PASS
176	174	93	101	94.8	71521	PASS
177	176	5	9	6.8	4869	PASS

20_AIR_0405.M Fri Apr 14 13:32:33 2017

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0411_02.D BFB Injection Date: 04/11/17

Instrument ID: CHEM24 BFB Injection Time: 19:13

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1246, 1247, 1248; Background Corrected with Scan 1241

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	19.6			
75	30.0 - 66.0% of mass 95	54.2			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.6			
173	Less than 2.0% of mass 174	0.5	(	0.6	)1
174	50.0 - 120.0% of mass 95	86.9			
175	4.0 - 9.0% of mass 174	7.0	(	6.1	)1
176	93.0 - 101.0% of mass 174	97.6	(	84.8	)1
177	5.0 - 9.0% of mass 176	6.5	(	5.5	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.035	0.035 ppb	0411_03.D	04/11/17	19:43	
02	ICAL 0.05	0.05 ppb	0411_04.D	04/11/17	20:14	
03	ICAL 0.1	0.1 ppb	0411_05.D	04/11/17	20:45	
04	ICAL 0.25	0.2ppb	0411_06.D	04/11/17	21:16	
05	ICAL 0.5	0.5ppb	0411_07.D	04/11/17	21:51	
06	ICAL 1	1 ppb	0411_08.D	04/11/17	22:23	
07	ICAL 2.5	2.5ppb	0411_09.D	04/11/17	22:58	
08	ICAL 5	5ppb	0411_10.D	04/11/17	23:28	
09	ICAL 10	10ppb	0411_11.D	04/12/17	00:47	
10	ICAL 25	25ppb	0411_12.D	04/12/17	01:22	
11	ICAL 40	40ppb	0411_13.D	04/12/17	02:00	
12						
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25						

(*) Outside 24 hr clock

FORM V AIR

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_02.D
Acq On : 11 Apr 2017 7:13 pm
Operator : Keith
Sample : 0/0
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Apr 17 08:55:54 2017

AutoFind: Scans 1246, 1247, 1248; Background Corrected with Scan 1241

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.6	48715	PASS
75	95	30	66	54.2	134440	PASS
95	95	100	100	100.0	248235	PASS
96	95	5	9	6.6	16263	PASS
173	174	0.00	2	0.6	1224	PASS
174	95	50	120	86.9	215661	PASS
175	174	4	9	7.0	15076	PASS
176	174	93	101	97.6	210480	PASS
177	176	5	9	6.5	13754	PASS

24AIR_0411.M Tue Apr 25 14:30:25 2017

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Lab File ID: 0417_02.D BFB Injection Date: 04/17/17

Instrument ID: CHEM24 BFB Injection Time: 10:01

GC Column: zb-1ms Heated Purge: (Y/N) Y

AutoFind: Scans 1247, 1248, 1249; Background Corrected with Scan 1242

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	19.5			
75	30.0 - 66.0% of mass 95	53.7			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.5			
173	Less than 2.0% of mass 174	0.5	(	0.5	)1
174	50.0 - 120.0% of mass 95	89.9			
175	4.0 - 9.0% of mass 174	6.8	(	6.1	)1
176	93.0 - 101.0% of mass 174	97.3	(	87.4	)1
177	5.0 - 9.0% of mass 176	6.4	(	5.6	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0 ppb 01B	0417_02.D	04/17/17	10:01	
02	CCAL 10	10ppb 01D	0417_03.D	04/17/17	10:33	
03	BY04726 LCS	BY04726 LCS	0417_04.D	04/17/17	11:08	
04	BY04726 BLANK	BY04726 BLANK	0417_06.D	04/17/17	12:11	
05	SS-1 DIL	BY03105 30X	0417_08.D	04/17/17	13:11	
06	BY04726 QC	BY04726	0417_21.D	04/17/17	20:26	
07	BY04726 DUP	BY04726 DUP	0417_22.D	04/17/17	21:19	
08	CCAL 1	1.0ppb;air4r	0417_31.D	04/18/17	03:01	
09	CCAL 10	10ppb;air4u	0417_32.D	04/18/17	03:33	
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(*) Outside 24 hr clock

FORM V AIR

tuner0417_02.txt
CLPBFB

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2017 10:01 am
Operator : Keith
Sample : 1.0 ppb 01B
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Apr 17 08:55:54 2017

AutoFind: Scans 1247, 1248, 1249; Background Corrected with Scan 1242

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.5	36638	PASS
75	95	30	66	53.7	100781	PASS
95	95	100	100	100.0	187563	PASS
96	95	5	9	6.5	12204	PASS
173	174	0.00	2	0.5	891	PASS
174	95	50	120	89.9	168640	PASS
175	174	4	9	6.8	11475	PASS
176	174	93	101	97.3	164016	PASS
177	176	5	9	6.4	10482	PASS

24AIR_0411.M Mon Apr 17 15:04:16 2017

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0405_08.D Date Analyzed: 04/05/17

Instrument ID: CHEM20 Time Analyzed: 15:07

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
	12 HOUR STD	201509	6.98	530019	7.88	246670	9.93			0405_08.D
	UPPER LIMIT	283120	7.31	744676	8.21	346571	10.26			0405_08.D
	LOWER LIMIT	119898	6.65	315361	7.55	146769	9.60			0405_08.D
	CLIENT ID									
01	ICAL 0.035	199549	6.98	513761	7.88	210400	9.93			0405_03.D
02	ICAL 0.05	207003	6.97	524688	7.88	210962	9.93			0405_04.D
03	ICAL 0.1	203473	6.98	515088	7.88	205850	9.93			0405_05.D
04	ICAL 0.25	205388	6.98	510786	7.88	209222	9.93			0405_06.D
05	ICAL 0.5	207360	6.98	528843	7.88	217835	9.93			0405_07.D
06	ICAL 1	200175	6.98	528433	7.88	216379	9.93			0405_08.D
07	ICAL 2.5	201555	6.98	536452	7.88	225639	9.93			0405_09.D
08	ICAL 5	198155	6.97	535009	7.88	234280	9.93			0405_10.D
09	ICAL 10	200144	6.99	538896	7.89	254110	9.93			0405_11.D
10	ICAL 25	203657	6.99	540629	7.89	308508	9.93			0405_12.D
11	ICAL 40	193676	6.99	536031	7.89	348206 *	9.93			0405_13.D
12										
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0405_08.D Date Analyzed: 04/05/17

Instrument ID: CHEM20 Time Analyzed: 15:07

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			FILE
	12 HOUR STD	202534	6.98	625414	7.88	230903	9.92			0405_08.D
	UPPER LIMIT	284560	7.31	878707	8.21	324419	10.25			0405_08.D
	LOWER LIMIT	120507	6.65	372122	7.55	137387	9.59			0405_08.D
	CLIENT ID									
01	ICAL 0.035	199549	6.98	617727	7.88	216490	9.92			0405_03.D
02	ICAL 0.05	207003	6.97	624904	7.88	219171	9.92			0405_04.D
03	ICAL 0.1	203473	6.98	613305	7.88	216209	9.92			0405_05.D
04	ICAL 0.25	205388	6.98	607106	7.88	217763	9.92			0405_06.D
05	ICAL 0.5	207360	6.98	616005	7.88	223851	9.92			0405_07.D
06	ICAL 1	200175	6.98	622984	7.88	227743	9.92			0405_08.D
07	ICAL 2.5	201555	6.98	643757	7.88	237218	9.92			0405_09.D
08	ICAL 5	198155	6.97	638335	7.88	249158	9.92			0405_10.D
09	ICAL 10	200144	6.99	644606	7.88	270526	9.92			0405_11.D
10	ICAL 25	203657	6.99	653069	7.89	336052 *	9.93			0405_12.D
11	ICAL 40	193676	6.99	631752	7.89	382219 *	9.93			0405_13.D
12										
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22										

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0412_33.D Date Analyzed: 04/13/17

Instrument ID: CHEM20 Time Analyzed: 13:04

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	130807	6.98	421645	7.88	150312	9.92			0412_33.D
UPPER LIMIT	183784	7.31	592411	8.21	211188	10.25			0412_33.D
LOWER LIMIT	77830	6.65	250879	7.55	89436	9.59			0412_33.D
CLIENT ID									
01 BY03107 LCS	126006	6.99	428403	7.88	190983	9.92			0412_35.D
02 BY03107 BLANK	131929	6.98	426141	7.88	145597	9.92			0412_38.D
03 IA-1	124045	6.98	389164	7.88	138332	9.92			0412_41.D
04 OA-1	119785	6.98	400626	7.88	143807	9.92			0412_42.D
05 OA-1 DUP	115779	6.98	375960	7.88	135181	9.92			0412_43.D
06 SS-1	120476	6.99	409724	7.89	159173	9.92			0412_45.D
07 CCAL 1	109178	6.98	365325	7.88	128710	9.92			0412_61.D
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22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0412_34.D Date Analyzed: 04/13/17

Instrument ID: CHEM20 Time Analyzed: 13:40

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	129499	6.99	357009	7.89	179723	9.93			0412_34.D
UPPER LIMIT	181946	7.32	501598	8.22	252511	10.26			0412_34.D
LOWER LIMIT	77052	6.66	212420	7.56	106935	9.60			0412_34.D
CLIENT ID									
01 BY03107 LCS	126006	6.99	355051	7.89	176655	9.93			0412_35.D
02 BY03107 BLANK	131929	6.98	350857	7.88	138439	9.93			0412_38.D
03 IA-1	124045	6.98	322993	7.88	128810	9.92			0412_41.D
04 OA-1	119785	6.98	329445	7.88	135849	9.93			0412_42.D
05 OA-1 DUP	115779	6.98	316602	7.88	124809	9.93			0412_43.D
06 SS-1	120476	6.99	338244	7.89	153181	9.93			0412_45.D
07 CCAL 10	108021	6.99	304589	7.89	148237	9.93			0412_62.D
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20									
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22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0411_08.D Date Analyzed: 04/11/17

Instrument ID: CHEM24 Time Analyzed: 22:23

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			FILE
12 HOUR STD	140394		3.95		473741		5.94		270113		9.21				0411_08.D
UPPER LIMIT	197253		4.28		665606		6.27		379509		9.54				0411_08.D
LOWER LIMIT	83534		3.62		281876		5.61		160717		8.88				0411_08.D
CLIENT ID															
01 ICAL 0.035	141908		3.94		472460		5.93		250623		9.21				0411_03.D
02 ICAL 0.05	138493		3.94		452106		5.93		232943		9.21				0411_04.D
03 ICAL 0.1	141705		3.94		467226		5.93		242942		9.21				0411_05.D
04 ICAL 0.25	138185		3.94		465366		5.93		238171		9.21				0411_06.D
05 ICAL 0.5	141334		3.94		471478		5.93		230861		9.21				0411_07.D
06 ICAL 1	138131		3.94		461008		5.93		247752		9.21				0411_08.D
07 ICAL 2.5	135568		3.94		463739		5.94		248307		9.21				0411_09.D
08 ICAL 5	138356		3.96		457295		5.95		241623		9.21				0411_10.D
09 ICAL 10	134790		3.95		453905		5.94		272442		9.21				0411_11.D
10 ICAL 25	141752		3.96		492956		5.95		329667		9.21				0411_12.D
11 ICAL 40	153721		3.96		530695		5.96		379251		9.22				0411_13.D
12															
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17															
18															
19															
20															
21															
22															

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0411_08.D Date Analyzed: 04/11/17

Instrument ID: CHEM24 Time Analyzed: 22:23

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			FILE
	12 HOUR STD	138719		3.95		507317		5.94		260468		9.21				0411_08.D
	UPPER LIMIT	194900		4.28		712780		6.27		365957		9.54				0411_08.D
	LOWER LIMIT	82538		3.62		301854		5.61		154978		8.88				0411_08.D
	CLIENT ID															
01	ICAL 0.035	141908		3.94		519889		5.94		267966		9.21				0411_03.D
02	ICAL 0.05	138493		3.94		497953		5.94		247463		9.21				0411_04.D
03	ICAL 0.1	141705		3.94		511706		5.94		258435		9.21				0411_05.D
04	ICAL 0.25	138185		3.94		509686		5.94		251602		9.21				0411_06.D
05	ICAL 0.5	141334		3.94		513886		5.94		250506		9.21				0411_07.D
06	ICAL 1	138131		3.94		505840		5.94		263421		9.21				0411_08.D
07	ICAL 2.5	135568		3.94		507633		5.94		261360		9.21				0411_09.D
08	ICAL 5	138356		3.96		501722		5.94		255346		9.21				0411_10.D
09	ICAL 10	134790		3.95		497538		5.94		288112		9.22				0411_11.D
10	ICAL 25	141752		3.96		539838		5.95		347762		9.22				0411_12.D
11	ICAL 40	153721		3.96		581146		5.95		397958	*	9.22				0411_13.D
12																
13																
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19																
20																
21																
22																

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0417_02.D Date Analyzed: 04/17/17

Instrument ID: CHEM24 Time Analyzed: 10:01

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#			FILE
12 HOUR STD	120814		3.95		441158		5.94		218007		9.22				0417_02.D
UPPER LIMIT	169744		4.28		619827		6.27		306300		9.55				0417_02.D
LOWER LIMIT	71884		3.62		262489		5.61		129714		8.89				0417_02.D
CLIENT ID															
01 BY04726 LCS	112224		3.96		415606		5.95		228277		9.22				0417_04.D
02 BY04726 BLANK	103133		3.95		359028		5.94		160418		9.22				0417_06.D
03 SS-1 DIL	110806		3.95		418167		5.94		202729		9.22				0417_08.D
04 BY04726 QC	117626		3.94		431018		5.94		211336		9.21				0417_21.D
05 BY04726 DUP	135120		3.94		505866		5.94		242653		9.21				0417_22.D
06 CCAL 1	107311		3.93		404870		5.93		201719		9.20				0417_31.D
07															
08															
09															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GBY03105

Lab File Id: 0417_03.D Date Analyzed: 04/17/17

Instrument ID: CHEM24 Time Analyzed: 10:33

GC Column: zb-1ms ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			FILE
12 HOUR STD	109740	3.96	369318	5.95	203867	9.22			0417_03.D
UPPER LIMIT	154185	4.29	518892	6.28	286433	9.55			0417_03.D
LOWER LIMIT	65295	3.63	219744	5.62	121301	8.89			0417_03.D
CLIENT ID									
01 BY04726 LCS	112224	3.96	383897	5.95	214466	9.22			0417_04.D
02 BY04726 BLANK	103133	3.95	331020	5.94	152139	9.21			0417_06.D
03 SS-1 DIL	110806	3.95	383039	5.94	190849	9.21			0417_08.D
04 BY04726 QC	117626	3.94	396939	5.93	203638	9.21			0417_21.D
05 BY04726 DUP	135120	3.94	468748	5.93	235083	9.21			0417_22.D
06 CCAL 10	99665	3.94	331449	5.93	190545	9.21			0417_32.D
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03105

Canister: 12864 Lab File ID: 0412_45.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	48.0	E	0.581	0.581	
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	41.8	ES	0.531	0.531	r
67-64-1	Acetone	490	ES	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.250		0.178	0.178	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.699		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.824		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	89.0	E	0.339	0.339	
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	1.50		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	65.0	E	0.339	0.339	
71-43-2	Benzene	2.23		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	87.0	E	0.047	0.047	
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.38		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	120	E	0.266	0.266	
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	4.59		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene	5.21		0.230	0.230	r
179601-23-1	m,p-Xylene	23.3		0.230	0.230	r
95-47-6	o-Xylene	4.11		0.230	0.230	r
108-67-8	1,3,5-Trimethylbenzene	0.237		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.720		0.204	0.204	r
135-98-8	sec-Butylbenzene	0.182	U	0.182	0.182	r
75-71-8	Dichlorodifluoromethane(sim)	0.202	U	0.202	0.202	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03105

Canister: 12864 Lab File ID: 0412_45.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.192		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_45.D
Acq On : 13 Apr 2017 09:57 pm
Operator : CORTEX\ms
Client ID : SS-1
Lab ID : BY03105
ALS Vial : 1 Sample Multiplier: 1

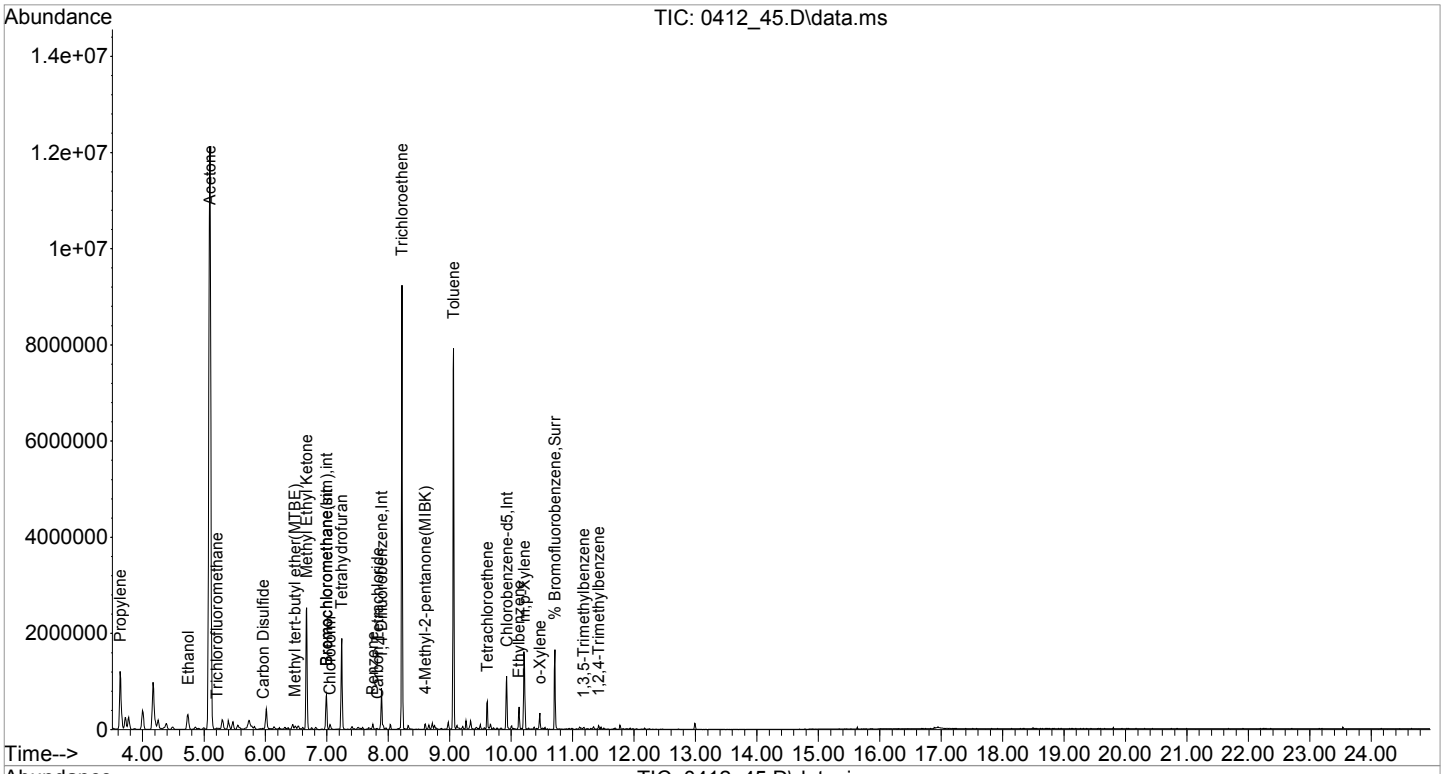
Quant Time: Apr 14 14:18:52 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

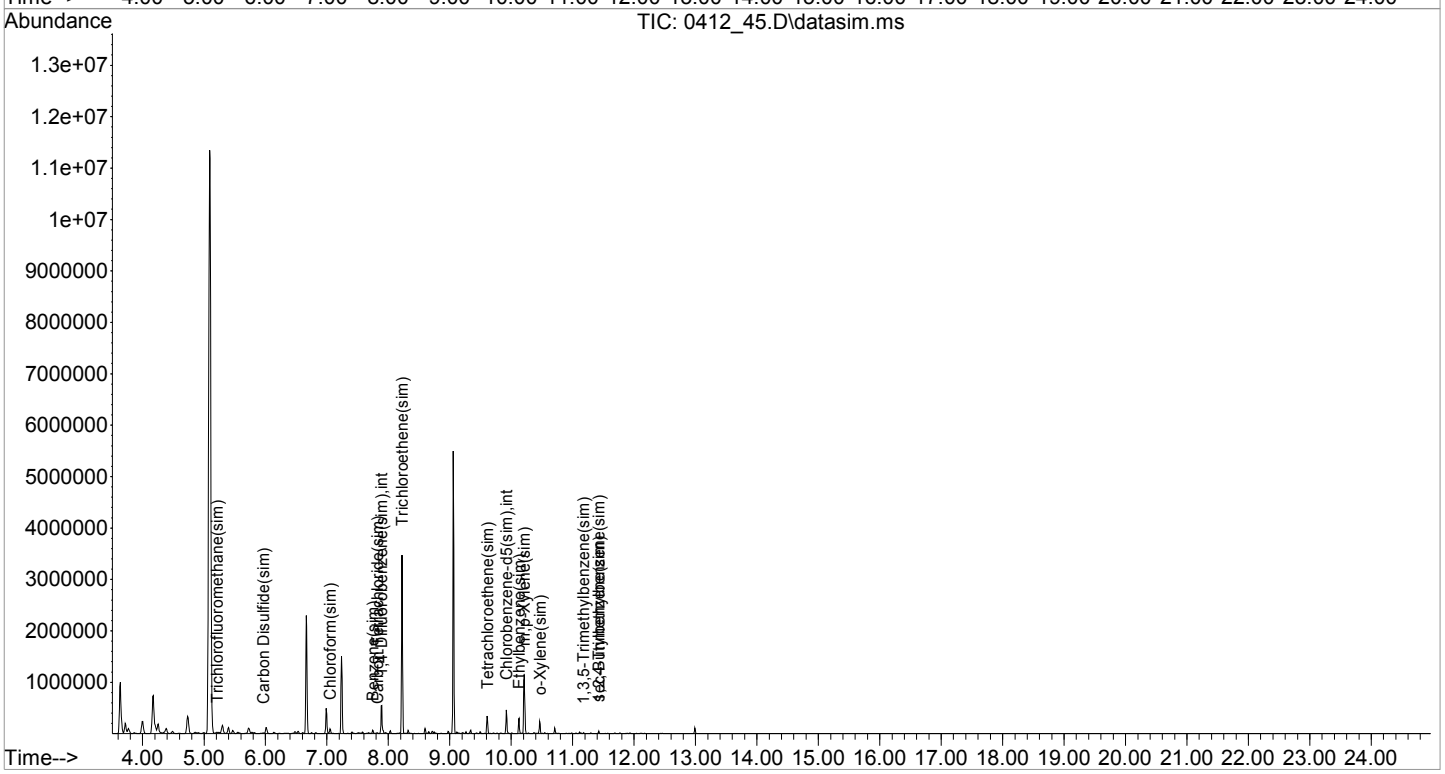
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.995	130	120476	10.000	ng		0.02
36) 1,4-Difluorobenzene	7.890	114	338244	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	153181	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.995	130	120476	10.000	ng		0.02
97) 1,4-Difluorobenzene(sim)	7.892	114	409724	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	159173	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	234453	11.254	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.50%				
Target Compounds							Qvalue
2) Propylene	3.635	41	599360	47.737	ppbv	#	85
11) Ethanol	4.738	45	340321	41.823	ppbv	#	92
12) Acetone	5.095	43	18139374	485.853	ppbv	#	69
13) Trichlorofluoromethane	5.208	101	12827	0.250	ppbv	#	97
20) Carbon Disulfide	5.965	76	18955	0.699	ppbv		96
24) Methyl tert-butyl ethe...	6.480	73	20530	0.824	ppbv	#	12
25) Methyl Ethyl Ketone	6.668	43	2313580m	89.024	ppbv		
28) Chloroform	7.049	83	38055	1.503	ppbv	#	83
30) Tetrahydrofuran	7.243	42	668224	65.206	ppbv	#	77
33) Benzene	7.749	78	49871	2.228	ppbv	#	82
34) Carbon Tetrachloride	7.823	117	7280	0.194	ppbv		95
39) Trichloroethene	8.221	130	1256748	87.292	ppbv		96
45) 4-Methyl-2-pentanone(M...	8.603	43	47904	2.383	ppbv	#	85
48) Toluene	9.062	91	2758324	116.628	ppbv	#	97
52) Tetrachloroethene	9.611	166	87889	4.587	ppbv		99
56) Ethylbenzene	10.127	91	165582	5.210	ppbv		98
57) m,p-Xylene	10.208	91	604862	23.320	ppbv		99
61) o-Xylene	10.467	91	109815	4.109	ppbv		99
67) 1,3,5-Trimethylbenzene	11.178	105	7773	0.237	ppbv	#	93
68) 1,2,4-Trimethylbenzene	11.423	105	23933	0.720	ppbv	#	89
85] Trichlorofluoromethane...	5.211	101	17243	0.258	ppbv		100
88] Carbon Tetrachloride(sim)	7.823	117	7280	0.192	ppbv		94
90] Carbon Disulfide(sim)	5.965	76	18955	0.665	ppbv		96
95] Chloroform(sim)	7.052	83	49012	1.510	ppbv	#	87
96] Benzene(sim)	7.749	78	49871	2.084	ppbv	#	82
100] Trichloroethene(sim)	8.221	130	1256688	84.280	ppbv		98
106] Tetrachloroethene(sim)	9.611	166	87719	4.666	ppbv		99
110] Ethylbenzene(sim)	10.127	91	165582	5.066	ppbv	#	97
111] m,p-Xylene(sim)	10.211	91	681895	23.932	ppbv		97
114] o-Xylene(sim)	10.467	91	109815	4.306	ppbv		98
118] 1,3,5-Trimethylbenzene...	11.178	105	7773	0.240	ppbv	#	91
119] 1,2,4-Trimethylbenzene...	11.426	105	24753	0.775	ppbv	#	84
124] sec-Butylbenzene(sim)	11.423	105	23938	0.843	ppbv		80

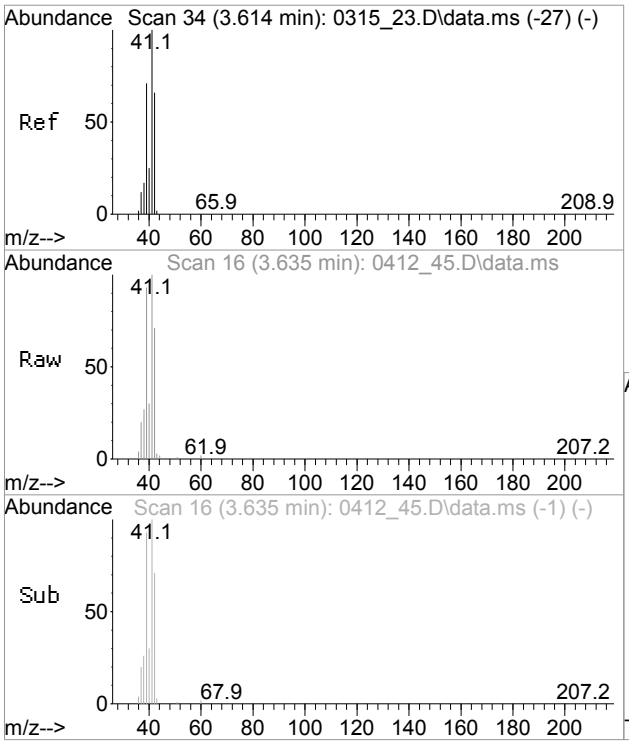
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_45.D
Acq On : 13 Apr 2017 09:57 pm
Operator : CORTEX\ms
Client ID : SS-1
Lab ID : BY03105
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:18:52 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration



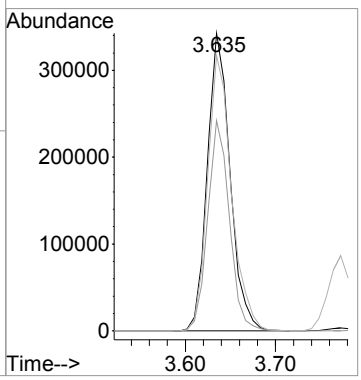


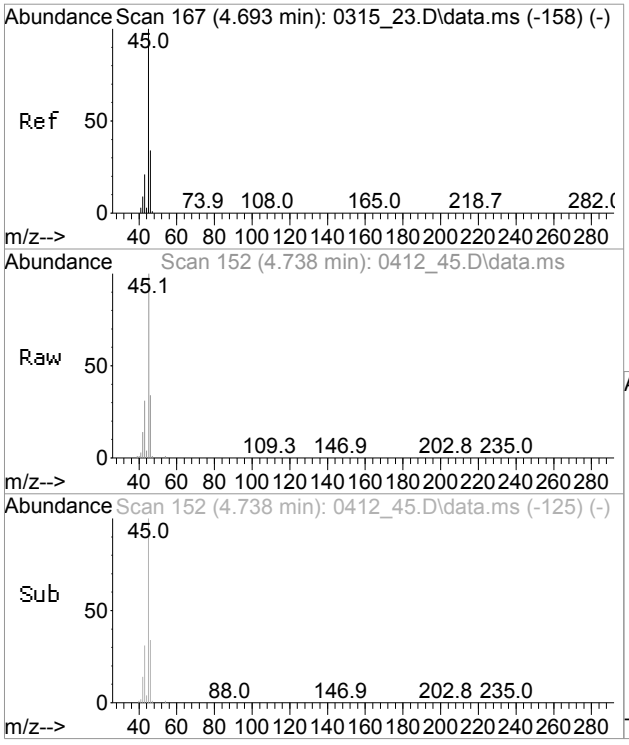


#2
Propylene
Concen: 47.74 ppbv
RT: 3.635 min Scan# 16
Delta R.T. -0.016 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 41 Resp: 599360

Ion	Ratio	Lower	Upper
41	100		
42	67.3	52.7	79.1
39	97.0	59.1	88.7#

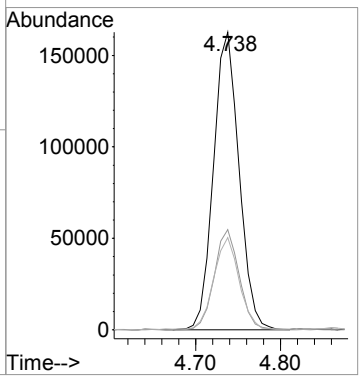


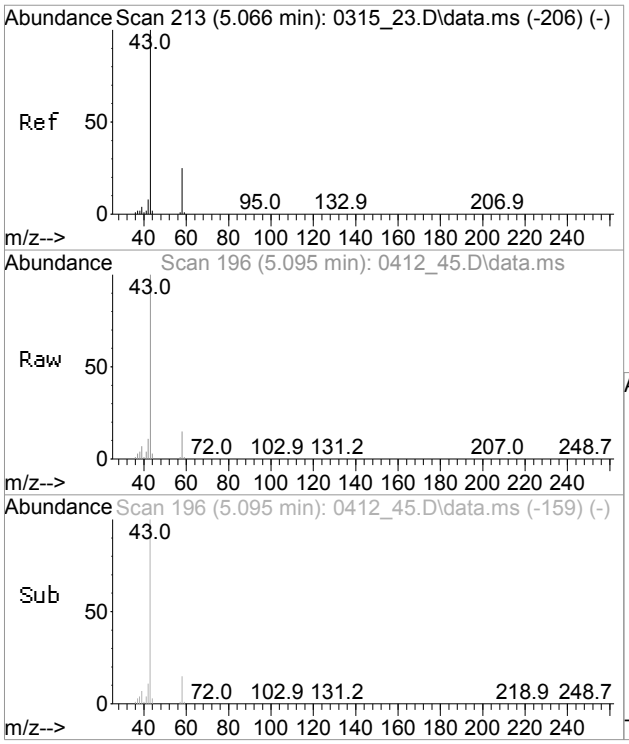


#11
Ethanol
Concen: 41.82 ppbv
RT: 4.738 min Scan# 152
Delta R.T. 0.016 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 45 Resp: 340321

Ion	Ratio	Lower	Upper
45	100		
46	32.9	28.5	42.7
43	31.6	19.7	29.5#

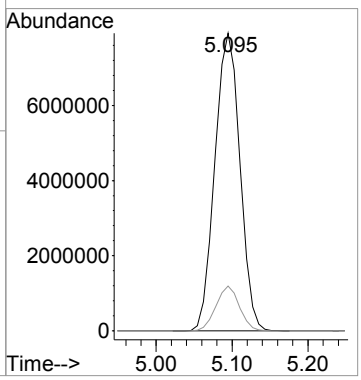


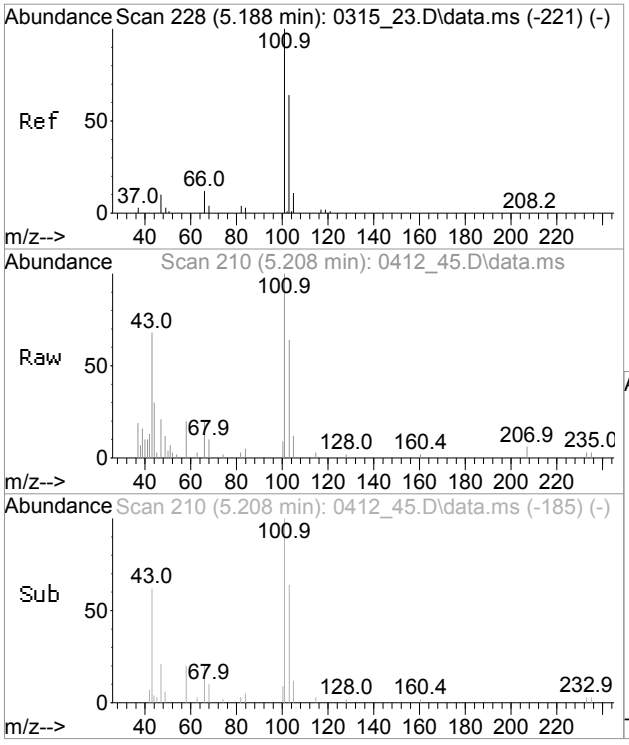


#12
Acetone
Concen: 485.85 ppbv
RT: 5.095 min Scan# 196
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 43 Resp:18139374

Ion	Ratio	Lower	Upper
43	100		
58	14.1	24.8	37.2#

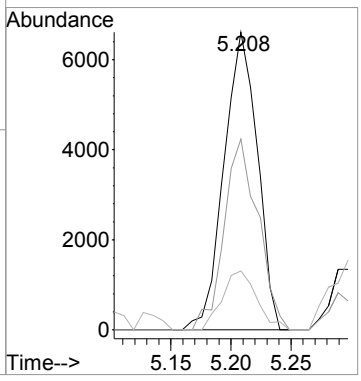


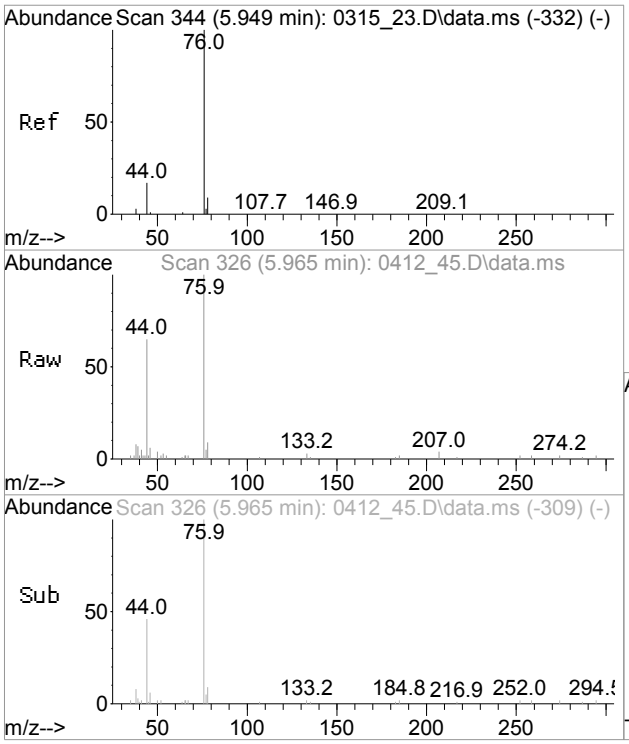


#13
Trichlorofluoromethane
Concen: 0.25 ppbv
RT: 5.208 min Scan# 210
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:101 Resp: 12827

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.8	77.8
66	20.5	11.1	16.7#

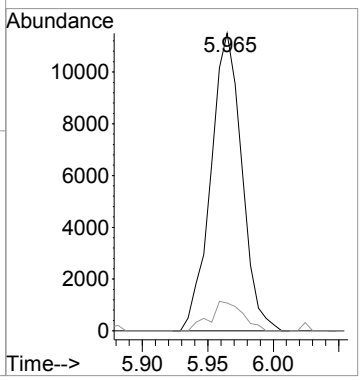


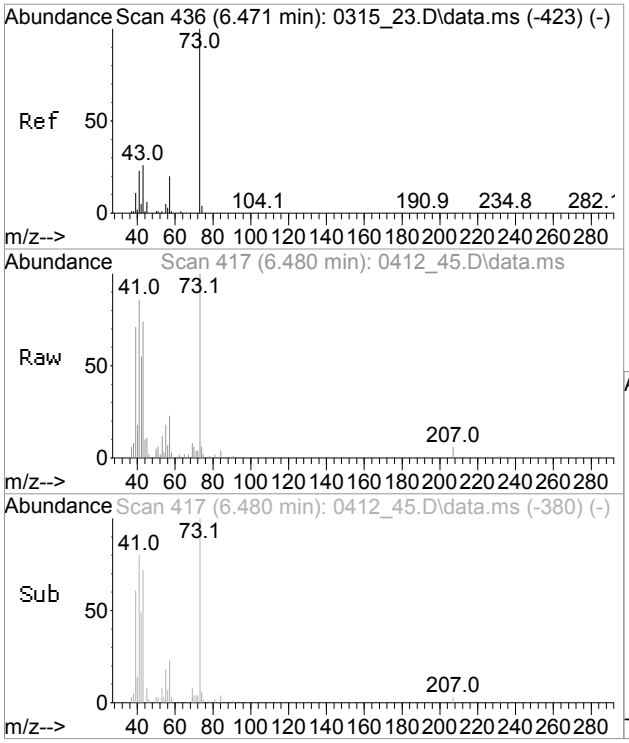


#20
Carbon Disulfide
Concen: 0.70 ppbv
RT: 5.965 min Scan# 326
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 76 Resp: 18955

Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.3	10.9

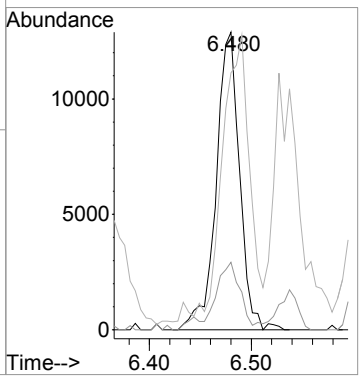


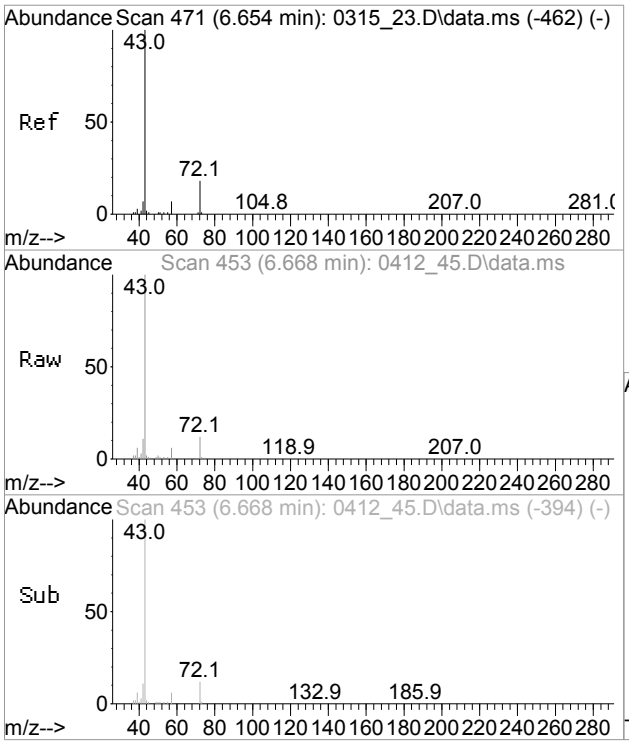


#24
Methyl tert-butyl ether(MTBE)
Concen: 0.82 ppbv
RT: 6.480 min Scan# 417
Delta R.T. -0.005 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 73 Resp: 20530

Ion	Ratio	Lower	Upper
73	100		
57	18.9	18.8	28.2
41	106.0	19.8	29.6#

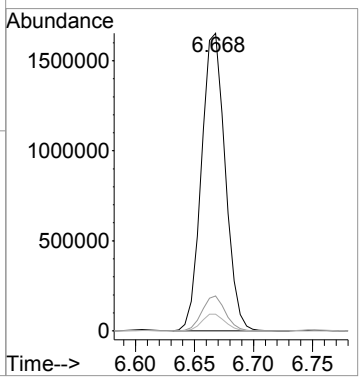


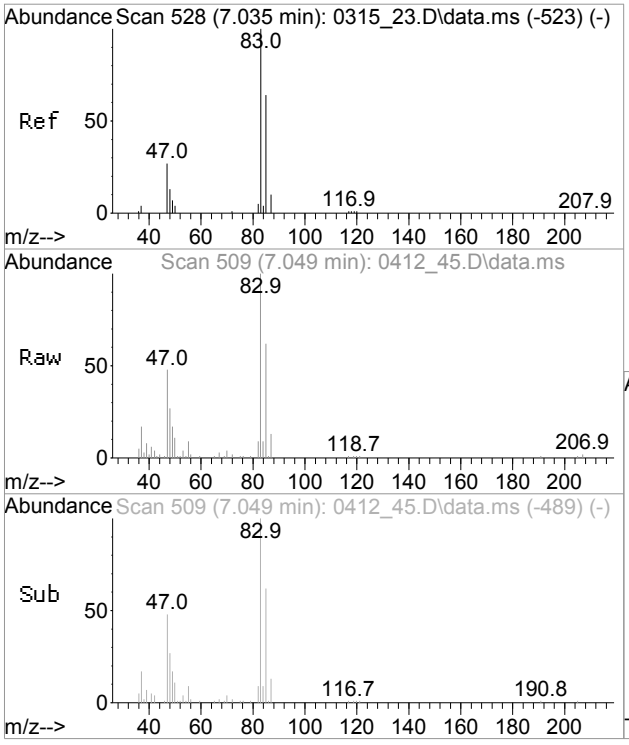


#25
Methyl Ethyl Ketone
Concen: 89.02 ppbv m
RT: 6.668 min Scan# 453
Delta R.T. 0.005 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 43 Resp: 2313580

Ion	Ratio	Lower	Upper
43	100		
72	11.5	15.9	23.9#
57	5.6	5.6	8.4#

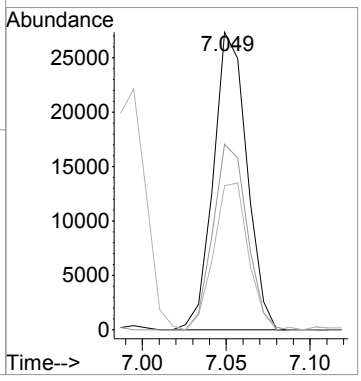


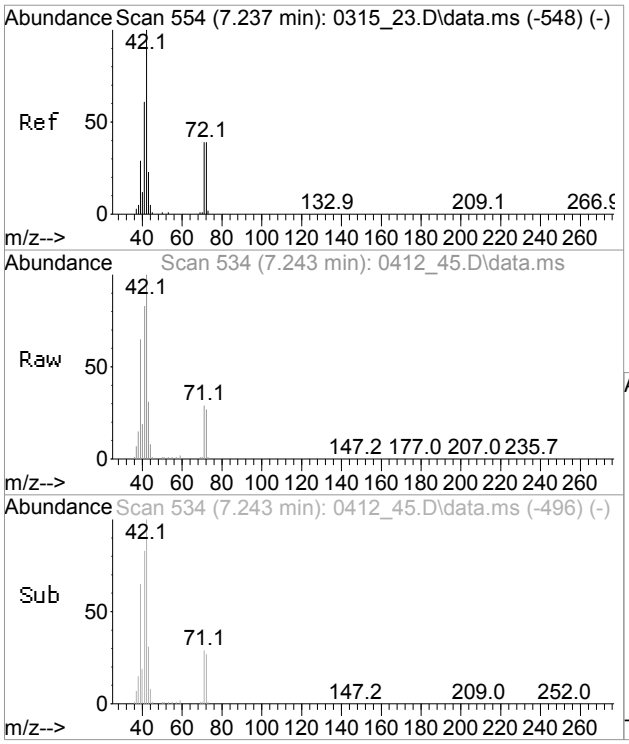


#28
Chloroform
Concen: 1.50 ppbv
RT: 7.049 min Scan# 509
Delta R.T. 0.008 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 83 Resp: 38055

Ion	Ratio	Lower	Upper
83	100		
85	63.4	46.0	86.0
47	51.2	4.6	44.6#

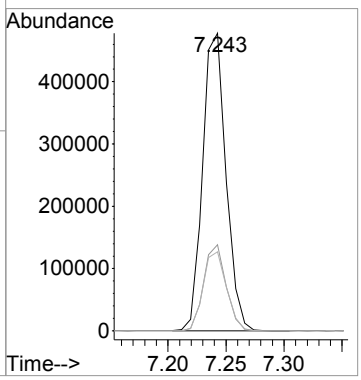


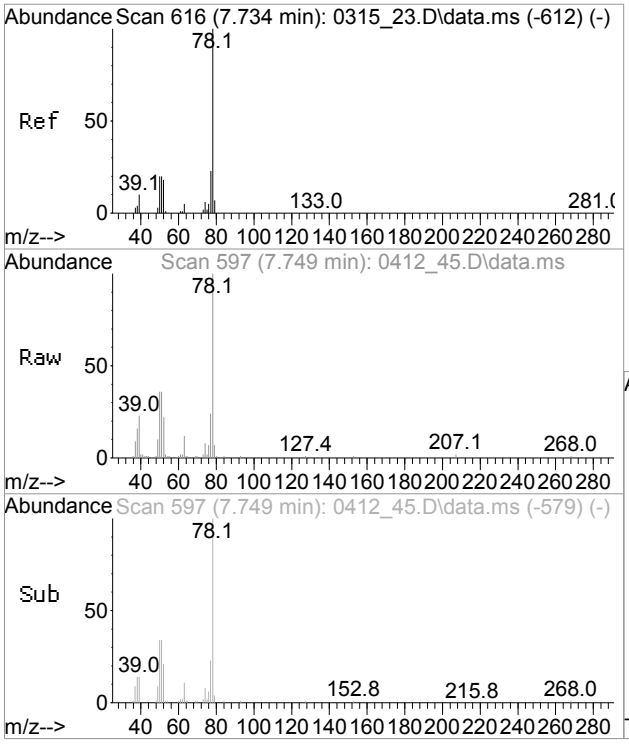


#30
Tetrahydrofuran
Concen: 65.21 ppbv
RT: 7.243 min Scan# 534
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 42 Resp: 668224

Ion	Ratio	Lower	Upper
42	100		
71	27.8	33.8	50.6#
72	26.7	33.1	49.7#

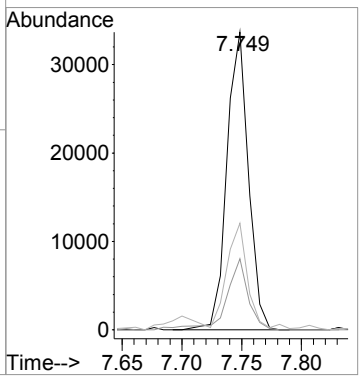


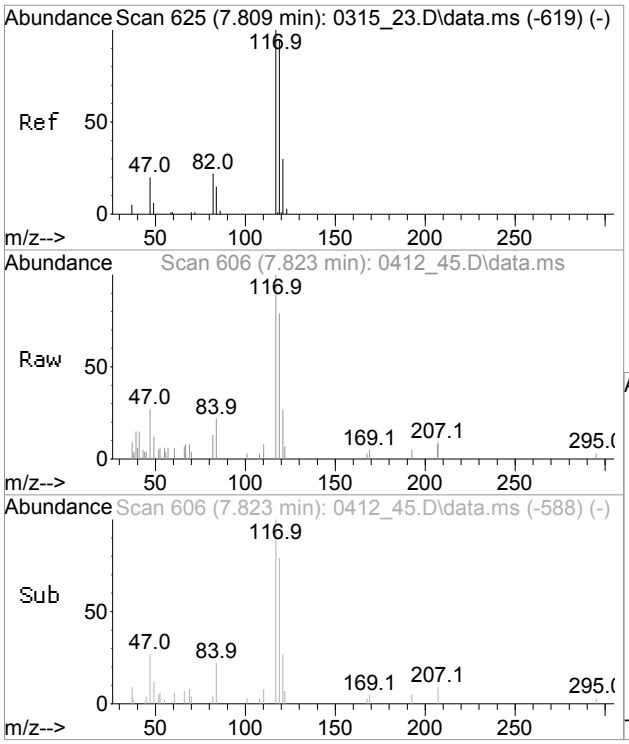


#33
Benzene
Concen: 2.23 ppbv
RT: 7.749 min Scan# 597
Delta R.T. 0.009 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 78 Resp: 49871

Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.6	27.8
51	35.9	14.9	22.3#

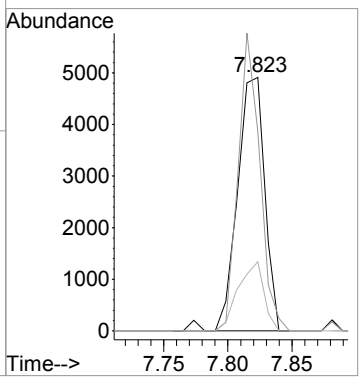


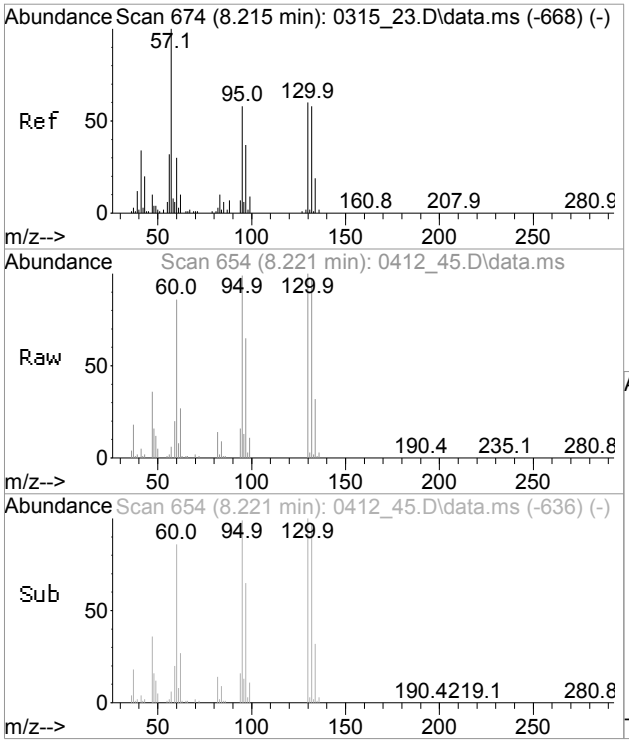


#34
Carbon Tetrachloride
Concen: 0.19 ppbv
RT: 7.823 min Scan# 606
Delta R.T. 0.009 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:117 Resp: 7280

Ion	Ratio	Lower	Upper
117	100		
119	92.4	75.9	115.9
121	25.5	10.8	50.8

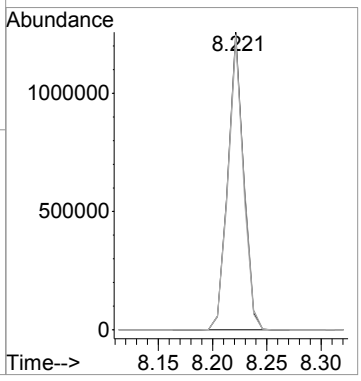


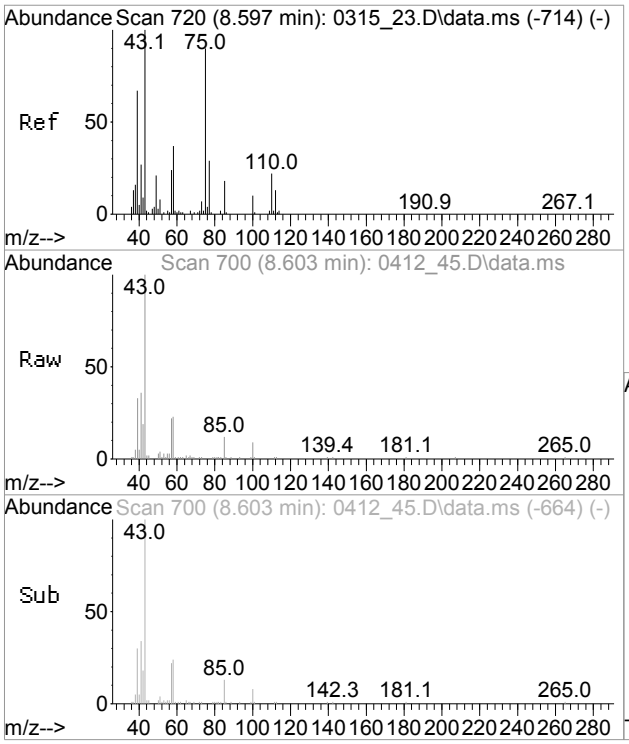


#39
Trichloroethene
Concen: 87.29 ppbv
RT: 8.221 min Scan# 654
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:130 Resp: 1256748

Ion	Ratio	Lower	Upper
130	100		
132	98.1	77.2	115.8
95	97.3	82.7	124.1

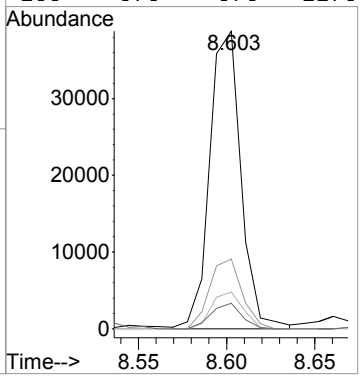


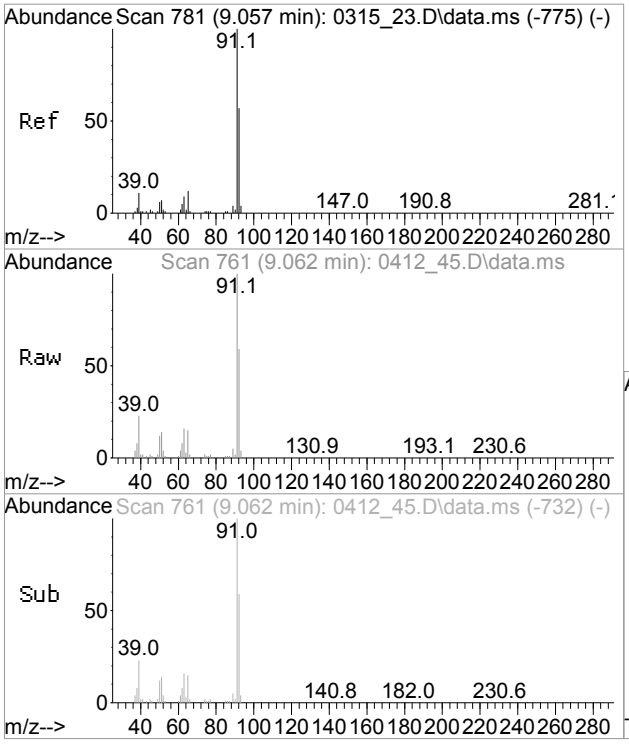


#45
4-Methyl-2-pentanone(MIBK)
Concen: 2.38 ppbv
RT: 8.603 min Scan# 700
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 43 Resp: 47904

Ion	Ratio	Lower	Upper
43	100		
58	24.4	29.4	44.2#
85	12.5	13.4	20.0#
100	8.5	8.0	12.0

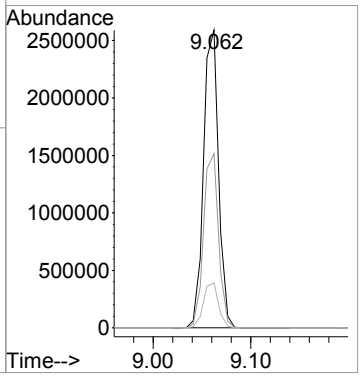


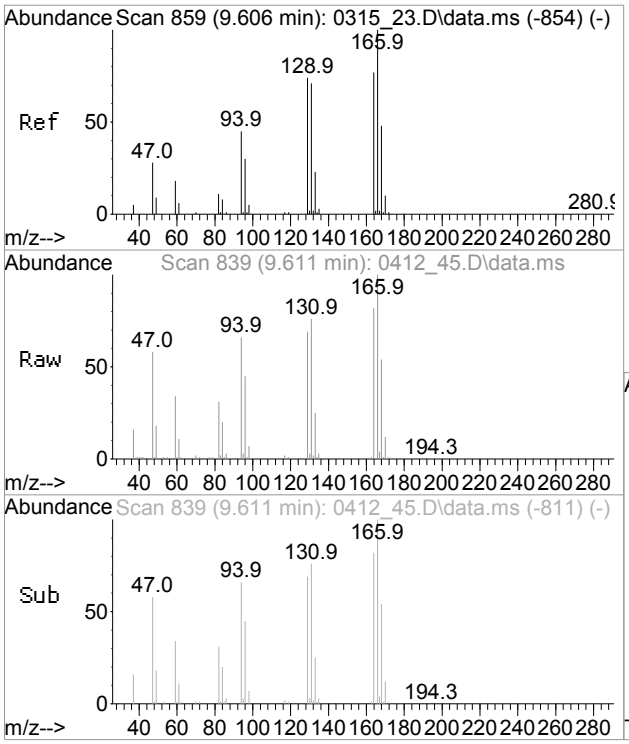


#48
Toluene
Concen: 116.63 ppbv
RT: 9.062 min Scan# 761
Delta R.T. 0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 2758324

Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.7	71.5
65	15.3	9.5	14.3#

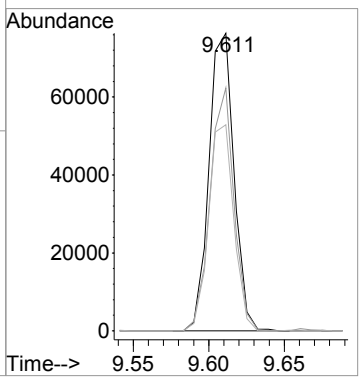


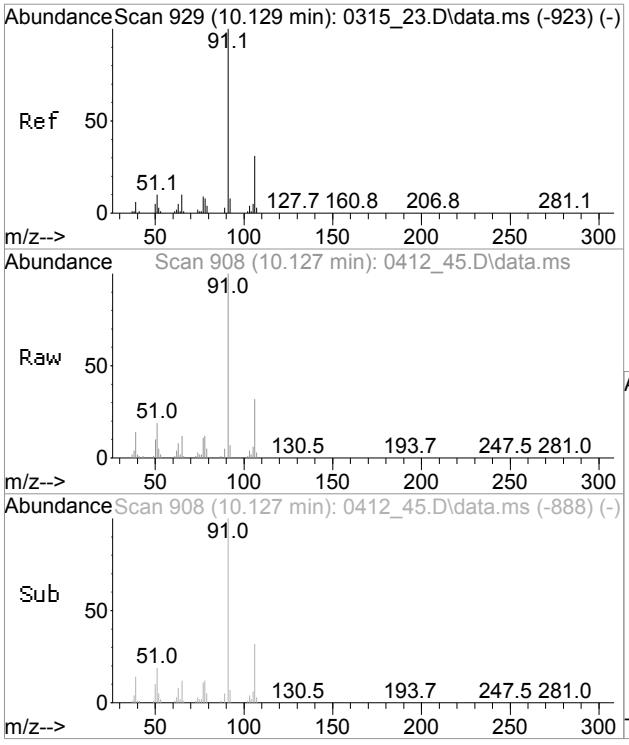


#52
Tetrachloroethene
Concen: 4.59 ppbv
RT: 9.611 min Scan# 839
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:166 Resp: 87889

Ion	Ratio	Lower	Upper
166	100		
164	78.1	62.2	93.4
129	69.8	56.6	84.8

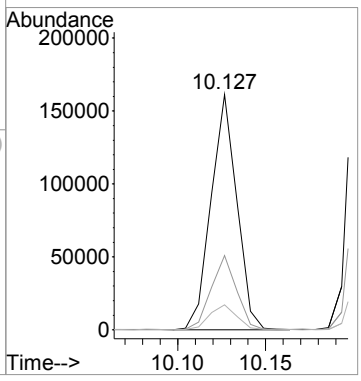


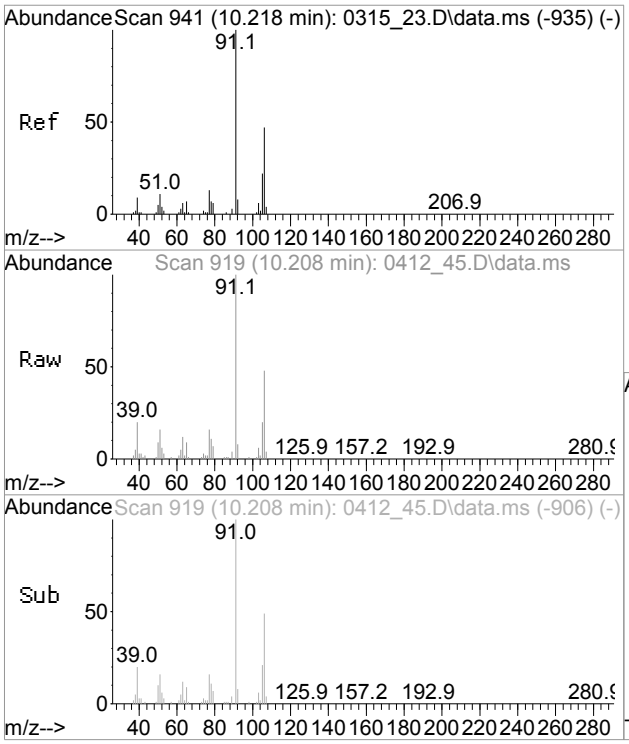


#56
Ethylbenzene
Concen: 5.21 ppbv
RT: 10.127 min Scan# 908
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 165582

Ion	Ratio	Lower	Upper
91	100		
106	31.0	10.8	50.8
77	11.5	0.0	28.9

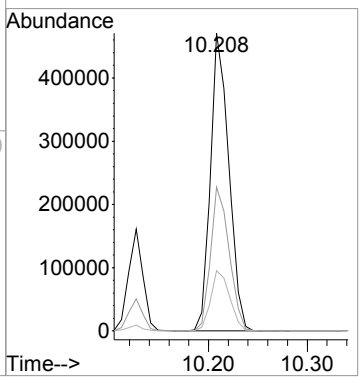


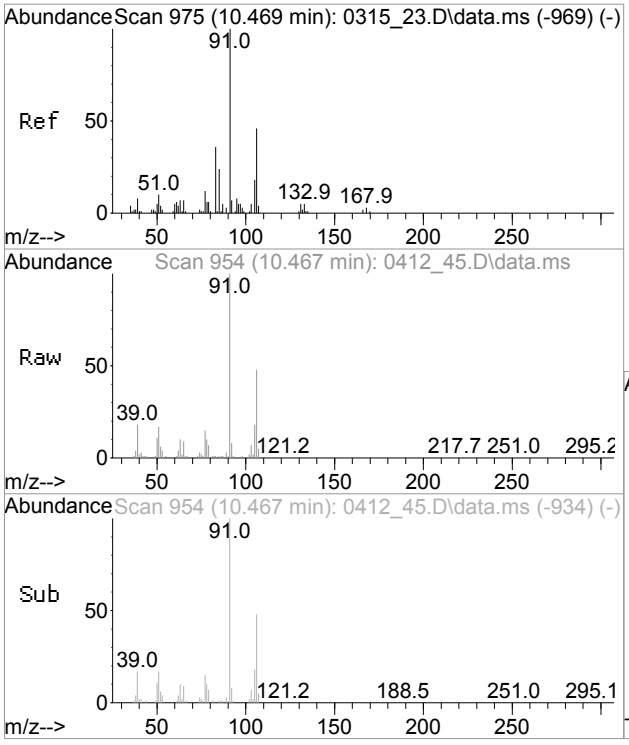


#57
m,p-Xylene
Concen: 23.32 ppbv
RT: 10.208 min Scan# 919
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 604862

Ion	Ratio	Lower	Upper
91	100		
106	49.1	38.7	58.1
105	21.0	16.6	25.0

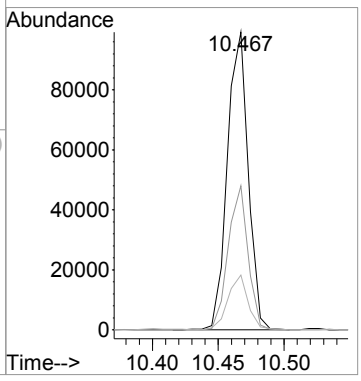


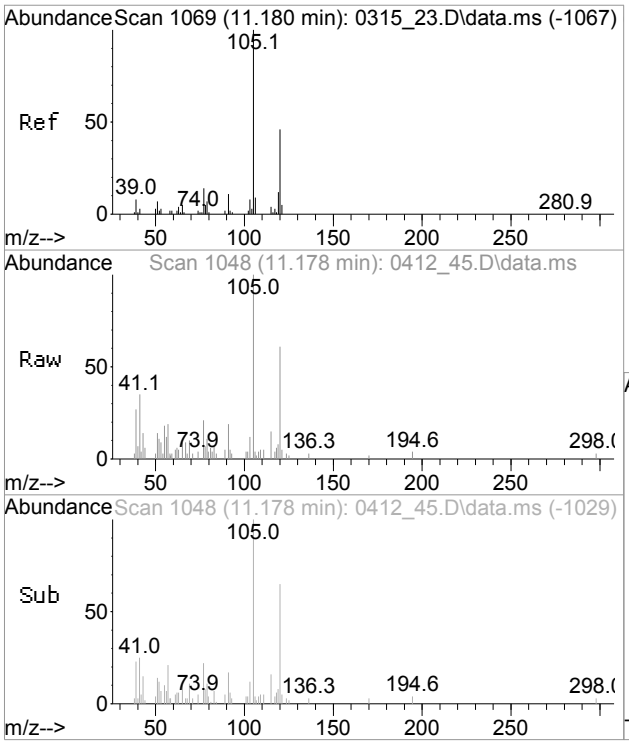


#61
o-Xylene
Concen: 4.11 ppbv
RT: 10.467 min Scan# 954
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 109815

Ion	Ratio	Lower	Upper
91	100		
106	46.1	37.4	56.2
105	18.0	14.1	21.1

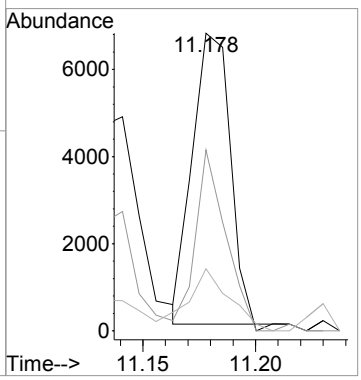


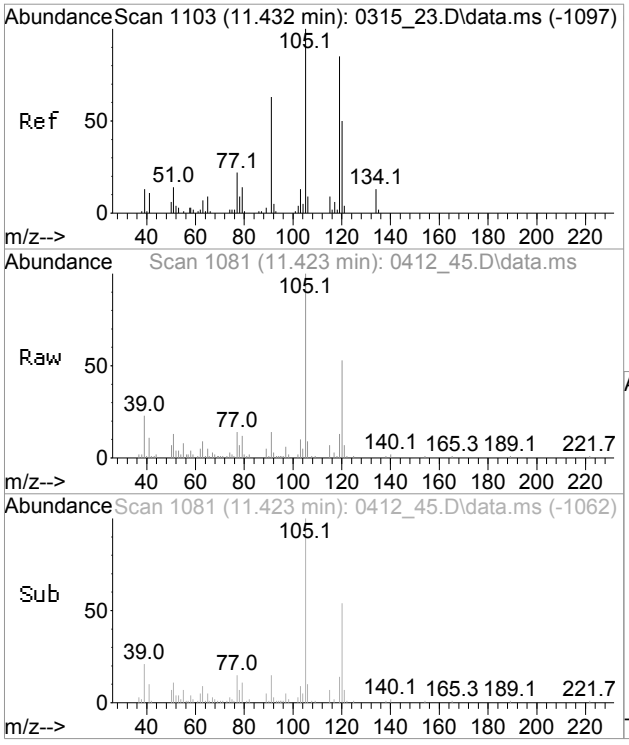


#67
1,3,5-Trimethylbenzene
Concen: 0.24 ppbv
RT: 11.178 min Scan# 1048
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:105 Resp: 7773

Ion	Ratio	Lower	Upper
105	100		
120	49.8	38.6	57.8
77	23.5	11.3	16.9#

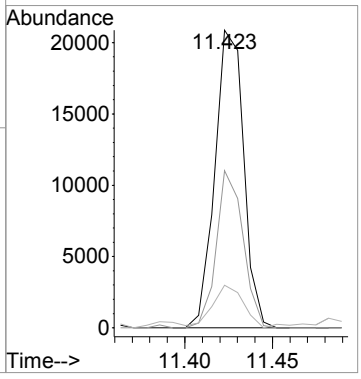


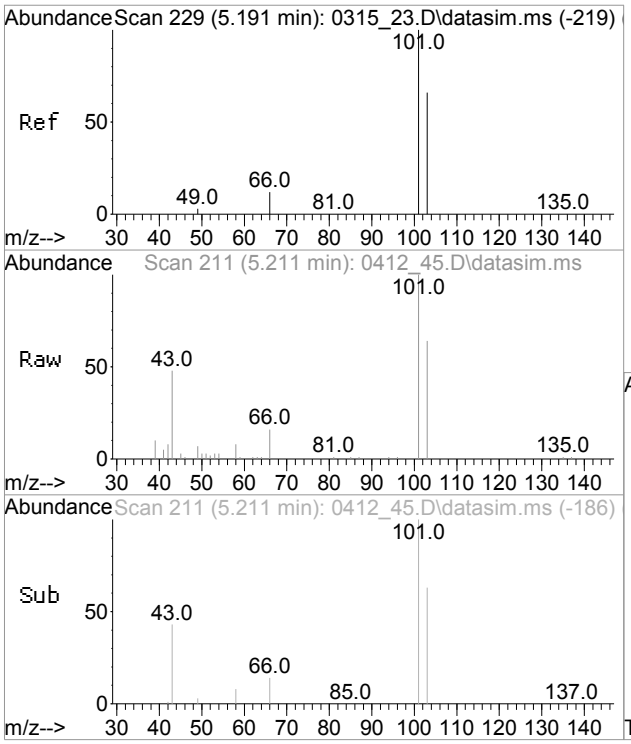


#68
1,2,4-Trimethylbenzene
Concen: 0.72 ppbv
RT: 11.423 min Scan# 1081
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:105 Resp: 23933

Ion	Ratio	Lower	Upper
105	100		
120	48.8	43.5	65.3
77	16.0	20.2	30.4#

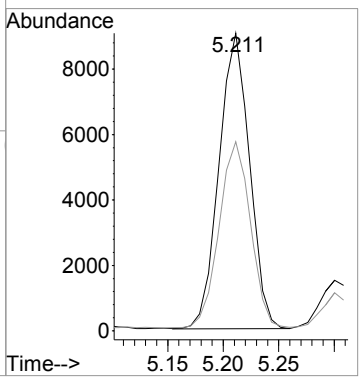


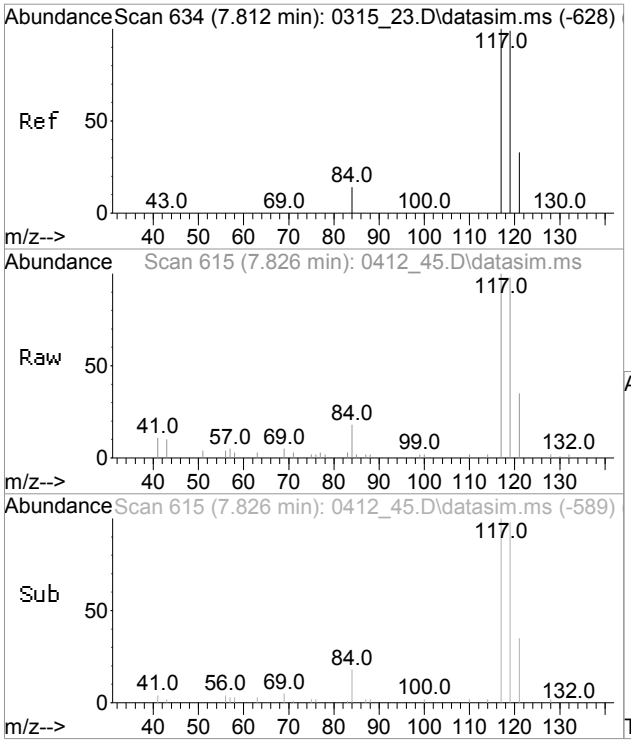


#85
Trichlorofluoromethane(sim)
Concen: 0.26 ppbv
RT: 5.211 min Scan# 211
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:101 Resp: 17243

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.0	78.0

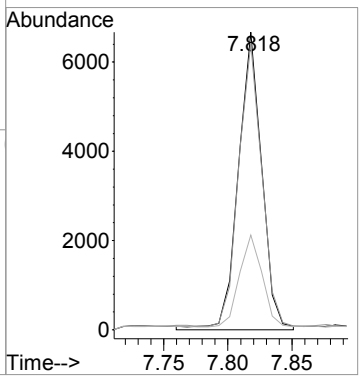


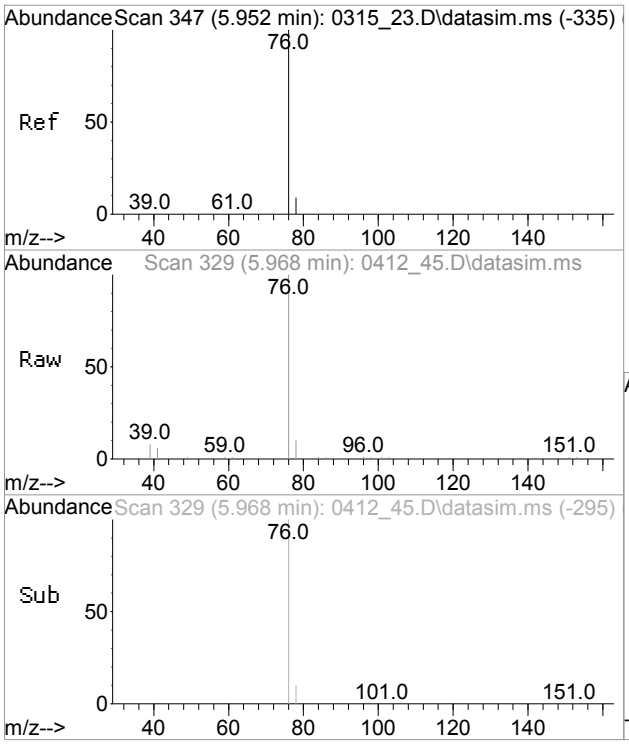


#88
Carbon Tetrachloride(sim)
Concen: 0.19 ppbv
RT: 7.823 min Scan# 615
Delta R.T. 0.009 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:117 Resp: 7280

Ion	Ratio	Lower	Upper
117	100		
119	91.3	76.7	115.1
121	25.5	24.6	37.0

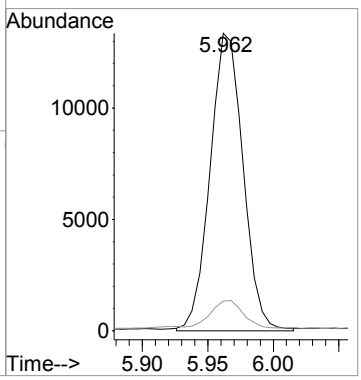


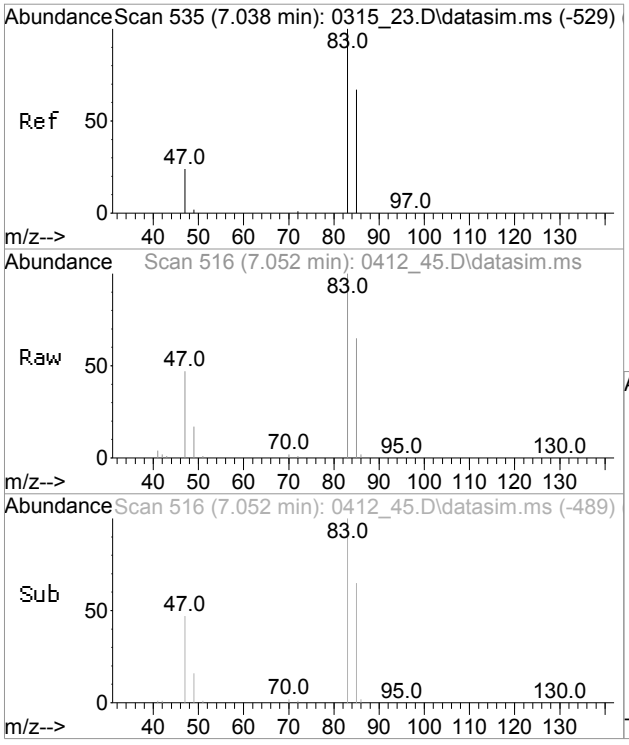


#90
Carbon Disulfide(sim)
Concen: 0.67 ppbv
RT: 5.965 min Scan# 329
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 76 Resp: 18955

Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.3	10.9

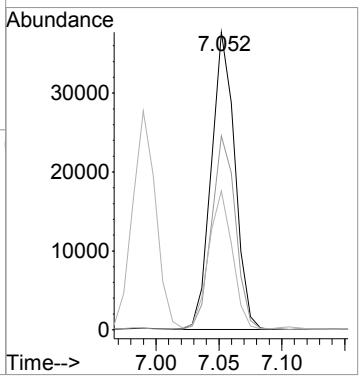


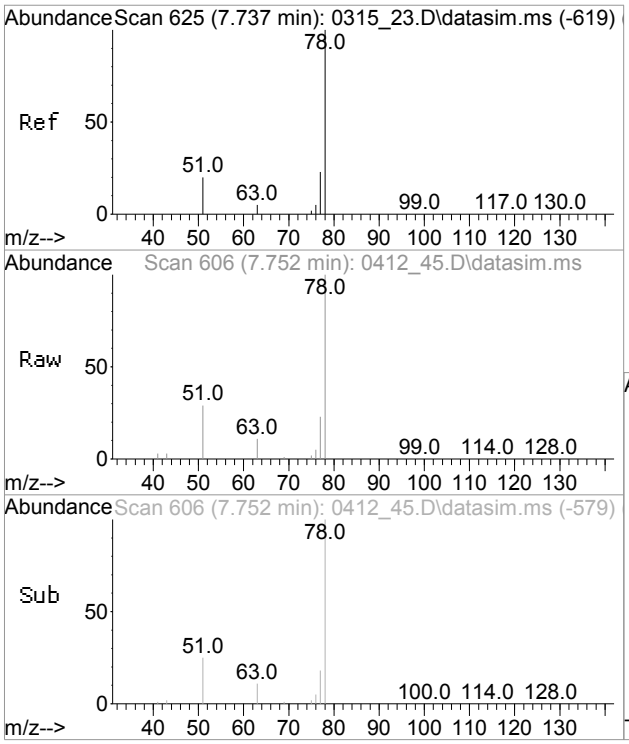


#95
Chloroform(sim)
Concen: 1.51 ppbv
RT: 7.052 min Scan# 516
Delta R.T. 0.008 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 83 Resp: 49012

Ion	Ratio	Lower	Upper
83	100		
85	66.2	62.7	67.9
47	46.8	19.4	29.0#

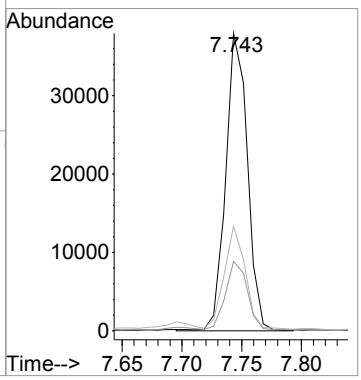


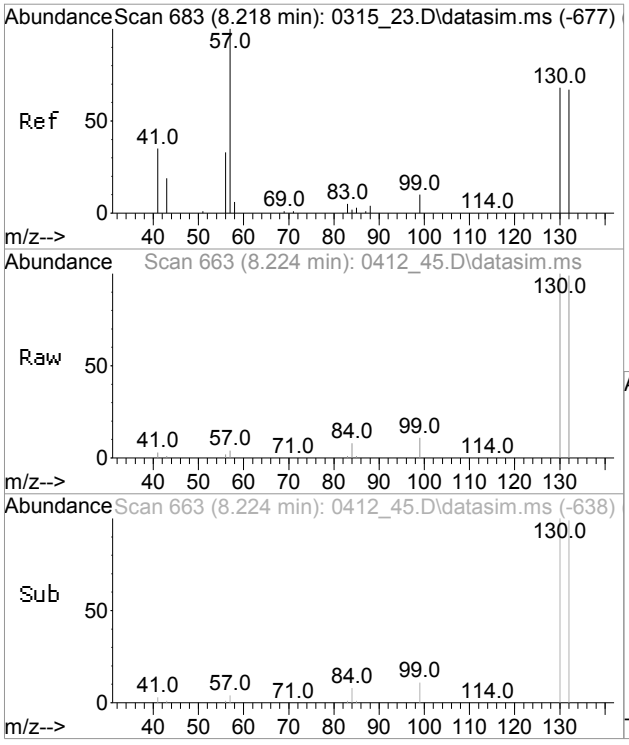


#96
Benzene(sim)
Concen: 2.08 ppbv
RT: 7.749 min Scan# 606
Delta R.T. 0.009 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 78 Resp: 49871

Ion	Ratio	Lower	Upper
78	100		
77	22.3	22.0	24.4
51	35.7	14.9	22.3#

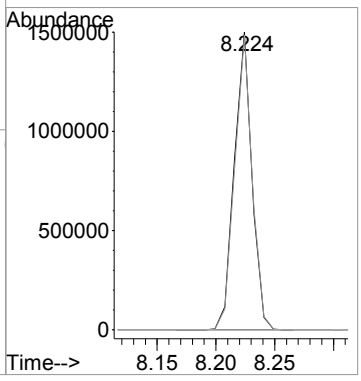


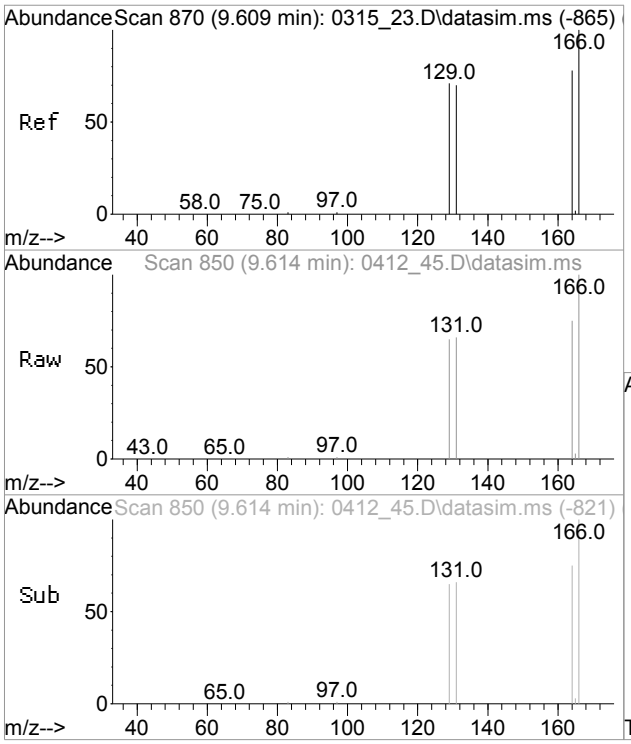


#100
Trichloroethene(sim)
Concen: 84.28 ppbv
RT: 8.221 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:130 Resp: 1256688

Ion	Ratio	Lower	Upper
130	100		
132	98.1	77.2	115.8
97	64.1	53.5	80.3

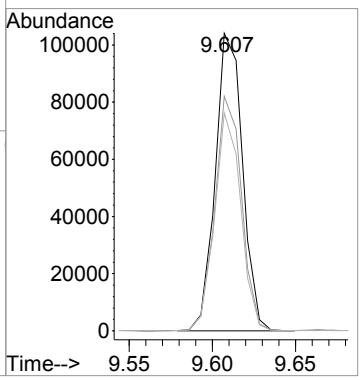


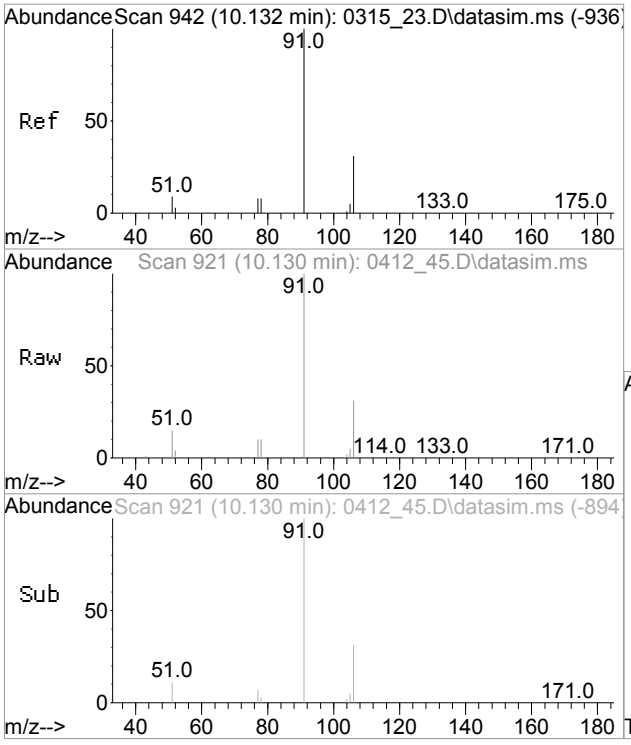


#106
Tetrachloroethene(sim)
Concen: 4.67 ppbv
RT: 9.611 min Scan# 850
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:166 Resp: 87719

Ion	Ratio	Lower	Upper
166	100		
164	78.3	57.8	97.8
129	70.0	50.7	90.7

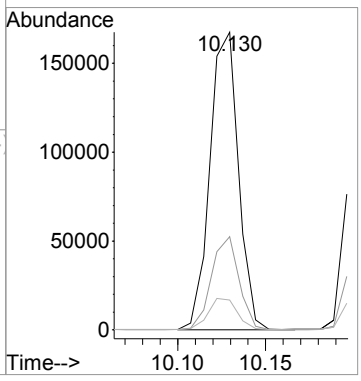


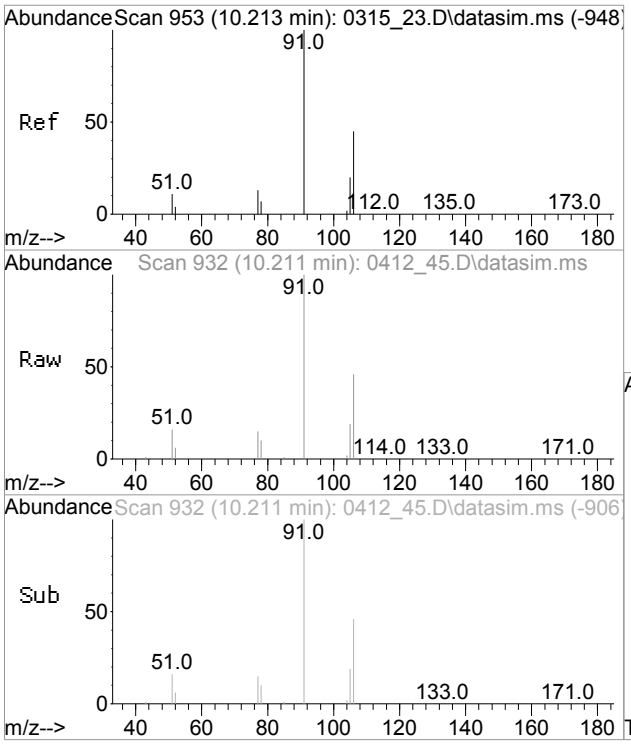


#110
Ethylbenzene(sim)
Concen: 5.07 ppbv
RT: 10.127 min Scan# 921
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 165582

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.0	36.0
77	11.5	7.3	10.9#

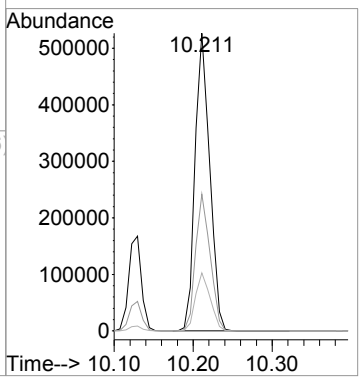


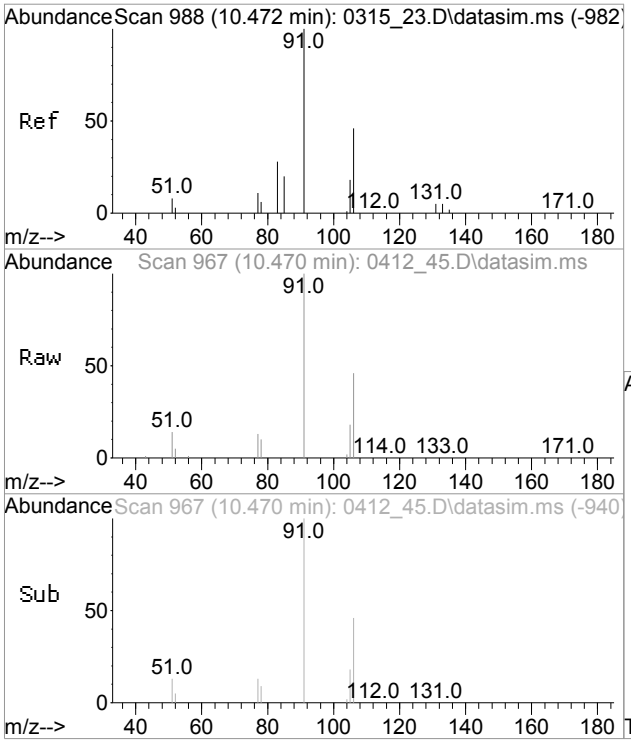


#111
m,p-Xylene(sim)
Concen: 23.93 ppbv
RT: 10.211 min Scan# 932
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 681895

Ion	Ratio	Lower	Upper
91	100		
106	45.7	43.6	53.2
105	19.7	16.6	25.0

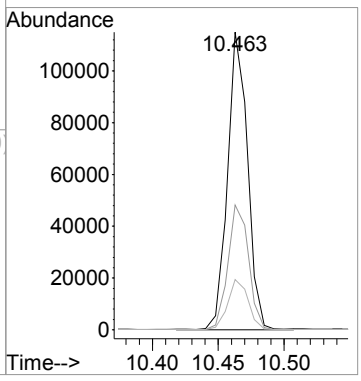


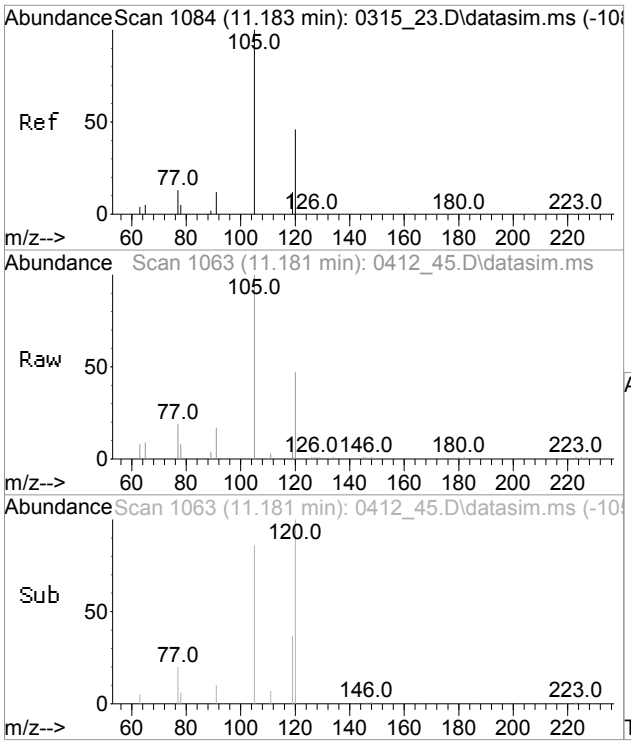


#114
o-Xylene(sim)
Concen: 4.31 ppbv
RT: 10.467 min Scan# 967
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion: 91 Resp: 109815

Ion	Ratio	Lower	Upper
91	100		
106	46.1	36.0	54.0
105	18.0	13.8	20.8

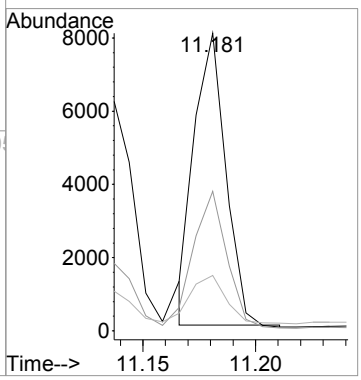


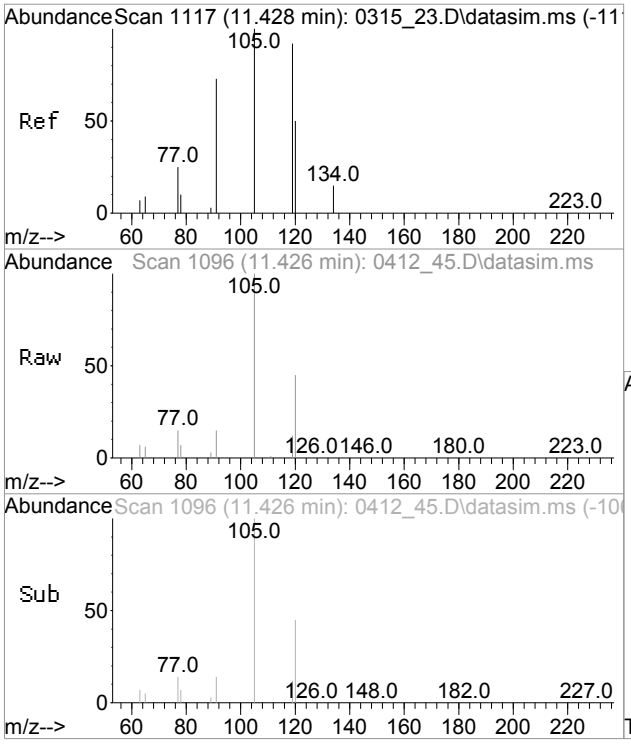


#118
1,3,5-Trimethylbenzene(sim)
Concen: 0.24 ppbv
RT: 11.178 min Scan# 1063
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:105 Resp: 7773

Ion	Ratio	Lower	Upper
105	100		
120	49.8	10.6	82.0
77	23.5	11.4	17.2#

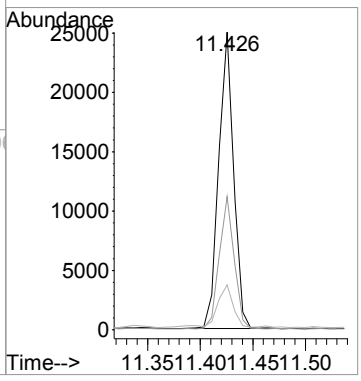


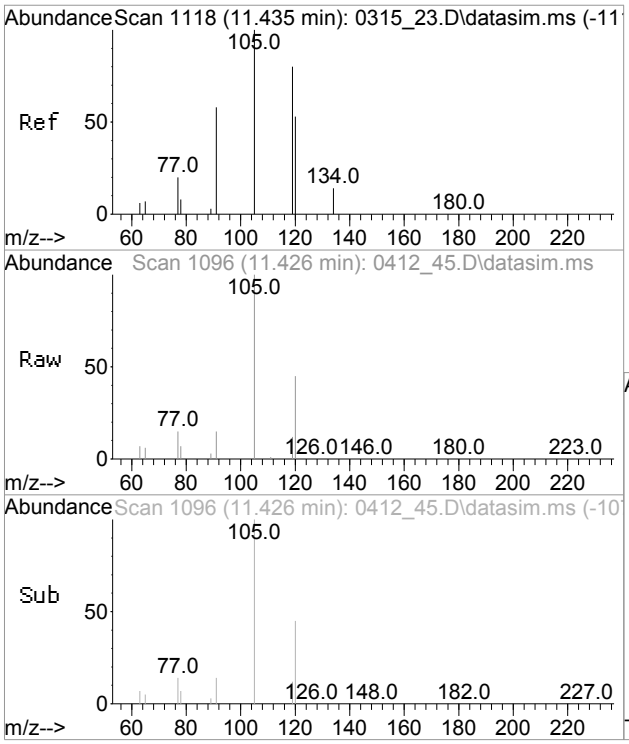


#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.78 ppbv
RT: 11.426 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:105 Resp: 24753

Ion	Ratio	Lower	Upper
105	100		
120	44.4	43.5	65.3
77	15.6	20.2	30.4#

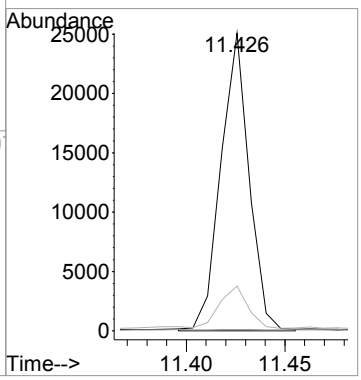




#124
sec-Butylbenzene(sim)
Concen: 0.84 ppbv
RT: 11.423 min Scan# 1096
Delta R.T. -0.007 min
Lab File: 0412_45.D
Acq: 13 Apr 2017 09:57 pm

Tgt Ion:105 Resp: 23938

Ion	Ratio	Lower	Upper
105	100		
134	0.7	0.0	35.9
77	15.2	0.0	34.1



1

CLIENT ID

AIR ANALYSIS DATA SHEET

SS-1 DIL

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03105 30X

Canister: 12864 Lab File ID: 0417_08.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 30

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	46.4	D	17.4	17.4	r
64-17-5	Ethanol	15.9	U	15.9	15.9	
67-64-1	Acetone	293	DS	12.6	12.6	r
75-15-0	Carbon Disulfide	9.64	U	9.64	9.64	
1634-04-4	Methyl tert-butyl ether(MTBE)	8.33	U	8.33	8.33	
78-93-3	Methyl Ethyl Ketone	54.5	D	10.2	10.2	r
67-66-3	Chloroform	6.15	U	6.15	6.15	
109-99-9	Tetrahydrofuran	29.5	D	10.2	10.2	r
71-43-2	Benzene	9.40	U	9.40	9.40	
79-01-6	Trichloroethene	59.2	D	1.40	1.40	r
108-10-1	4-Methyl-2-pentanone(MIBK)	7.33	U	7.33	7.33	
108-88-3	Toluene	64.5	D	7.97	7.97	r
100-41-4	Ethylbenzene	6.91	U	6.91	6.91	
179601-23-1	m,p-Xylene	14.0	X	6.91	6.91	
95-47-6	o-Xylene	6.91	U	6.91	6.91	
108-67-8	1,3,5-Trimethylbenzene	6.11	U	6.11	6.11	
95-63-6	1,2,4-Trimethylbenzene	6.11	U	6.11	6.11	

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_08.D
Acq On : 17 Apr 2017 1:11 pm
Operator : Keith
Client ID : SS-1 DIL
Lab ID : BY03105 30X
ALS Vial : 12 Sample Multiplier: 1

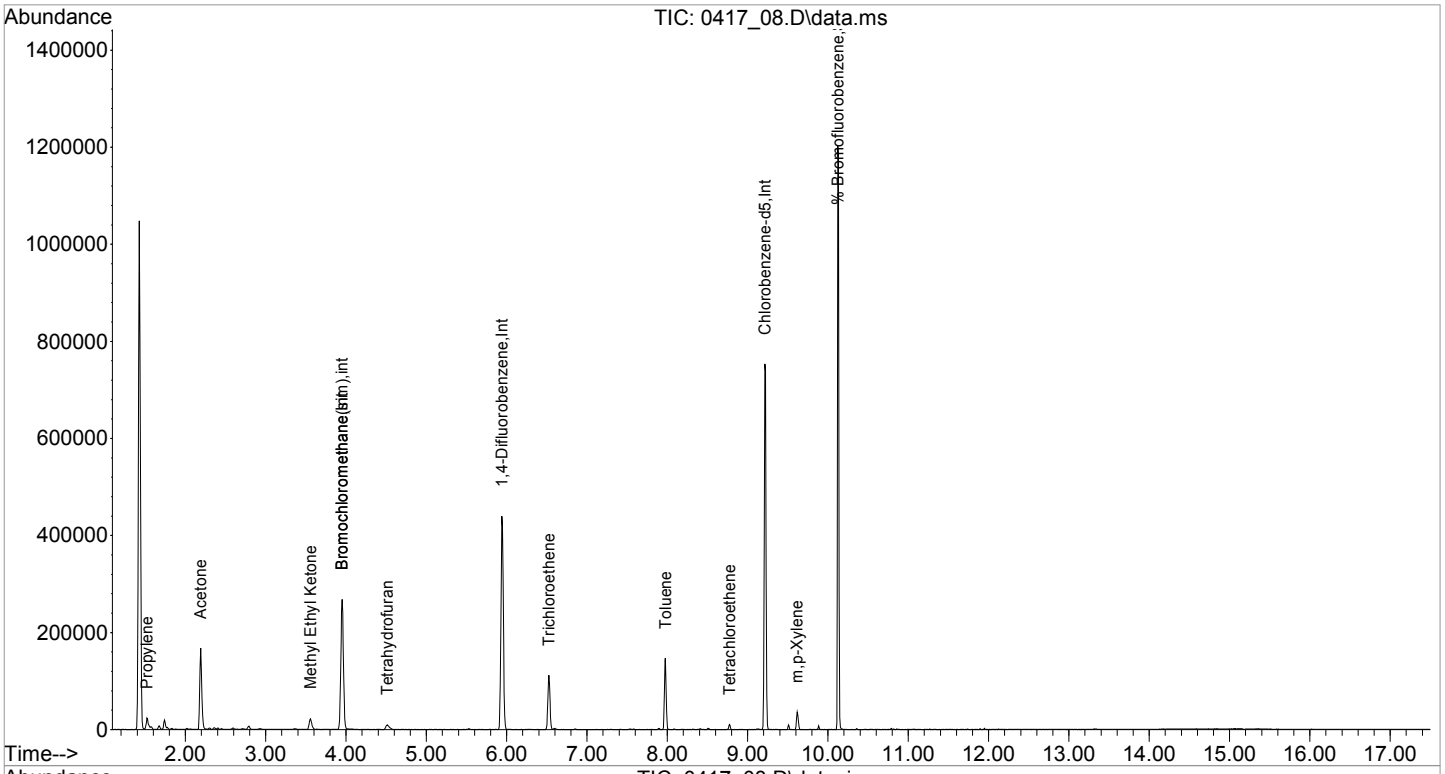
Quant Time: Apr 17 15:03:43 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

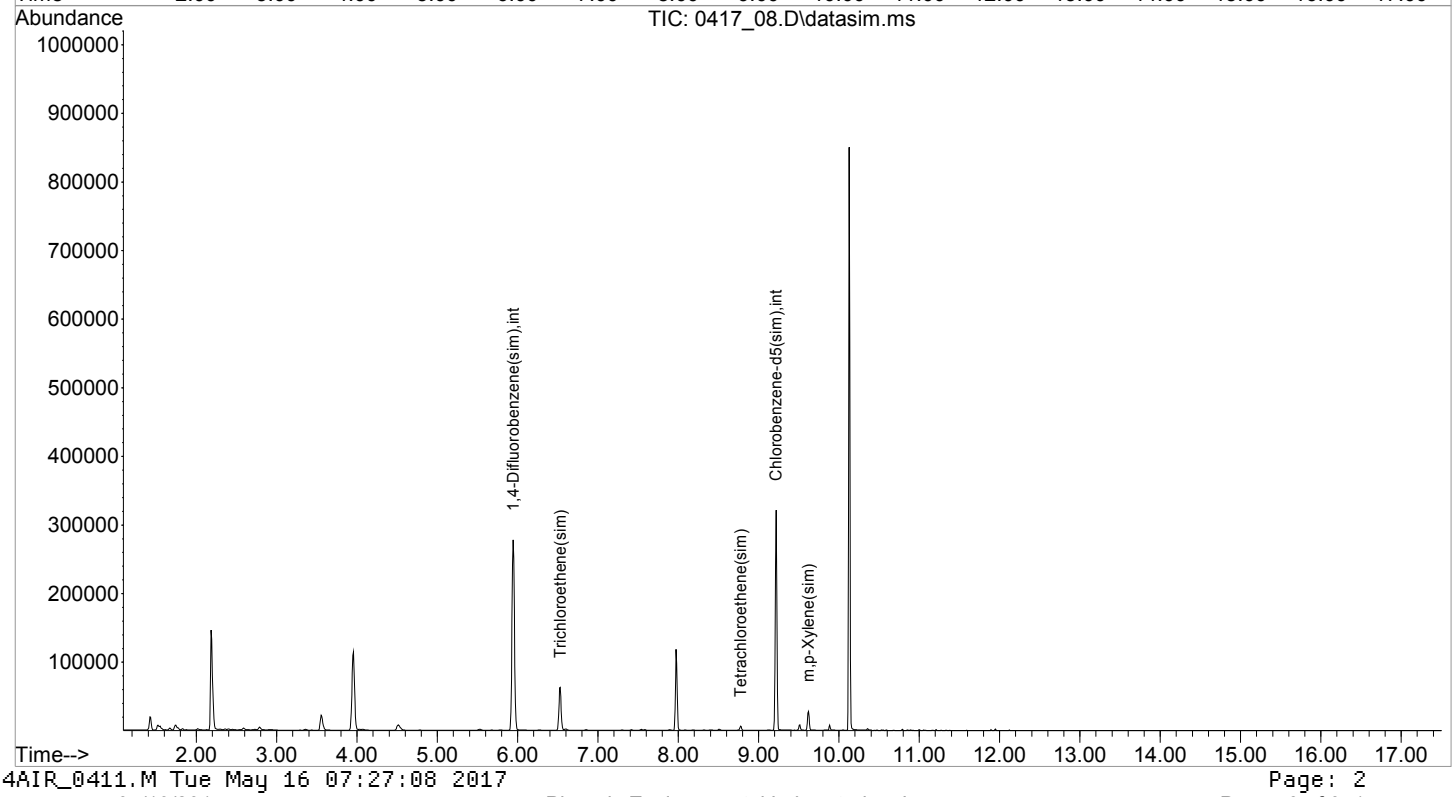
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.951	130	110806	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.941	114	383039	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	190849	10.000	ng		0.00
80) Bromochloromethane(sim)	3.951	130	110806	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.944	114	418167	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	202729	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	265612	10.590	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.90%				
Target Compounds							Qvalue
2) Propylene	1.520	41	9395	1.545	ppbv#		87
12) Acetone	2.189	43	186129	9.783	ppbv		96
25) Methyl Ethyl Ketone	3.558	43	32593	1.818	ppbv		96
30) Tetrahydrofuran	4.511	42	7714	0.982	ppbv		88
39) Trichloroethene	6.527	130	34712	1.973	ppbv#		87
48) Toluene	7.977	91	88837	2.149	ppbv		98
52) Tetrachloroethene	8.773	166	2248	0.091	ppbv#		88
57) m,p-Xylene	9.617	91	20054	0.466	ppbv		95
96] Trichloroethene(sim)	6.527	130	34712	2.371	ppbv#		90
102] Tetrachloroethene(sim)	8.773	166	2248	0.113	ppbv#		88
106] m,p-Xylene(sim)	9.617	91	20054	0.489	ppbv		95

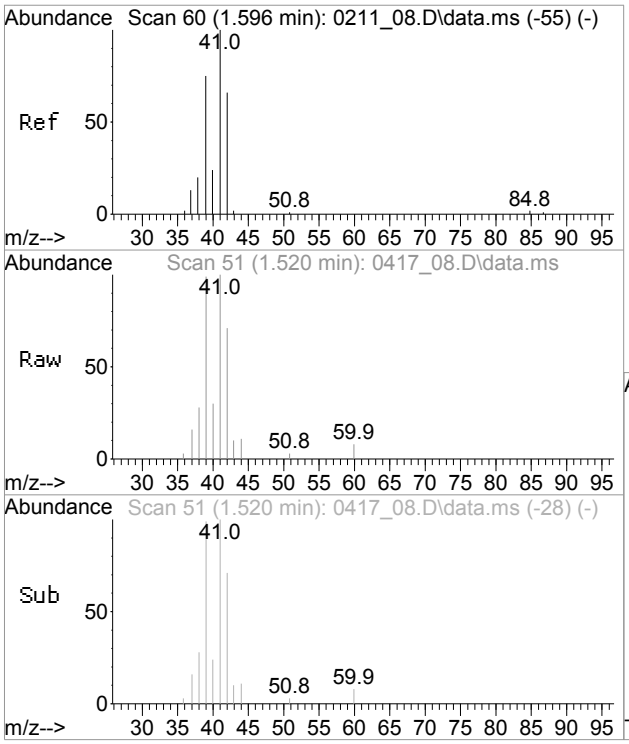
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_08.D
Acq On : 17 Apr 2017 1:11 pm
Operator : Keith
Client ID : SS-1 DIL
Lab ID : BY03105 30X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 15:03:43 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



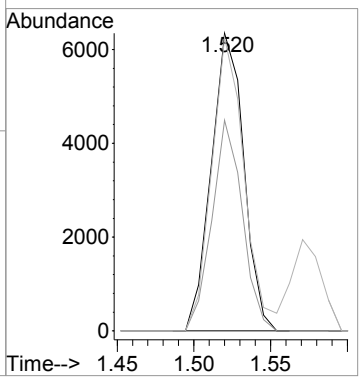


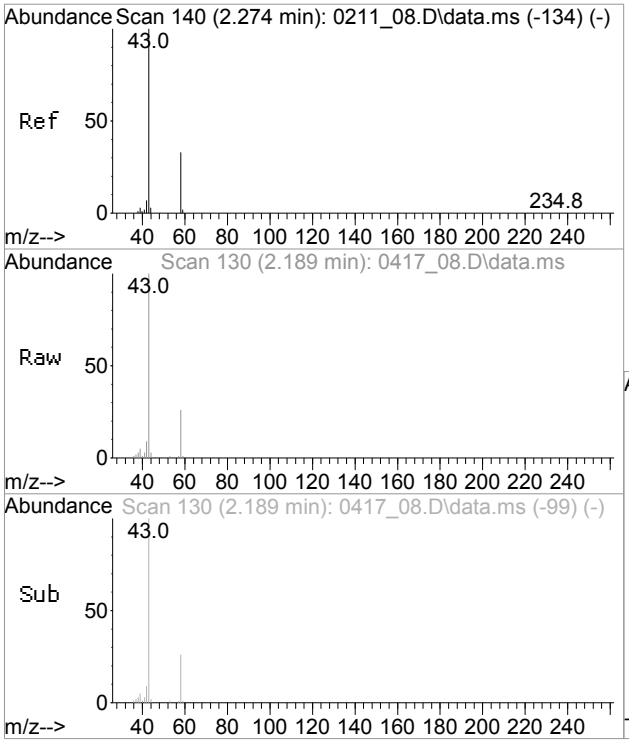


#2
Propylene
Concen: 1.55 ppbv
RT: 1.520 min Scan# 51
Delta R.T. -0.008 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 41 Resp: 9395

Ion	Ratio	Lower	Upper
41	100		
42	66.3	53.0	79.6
39	98.8	62.8	94.2#

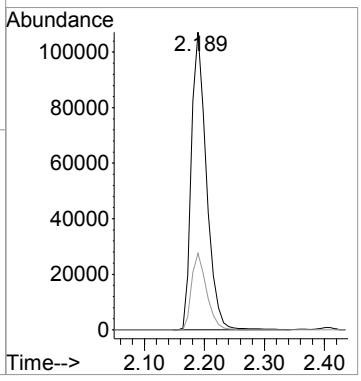


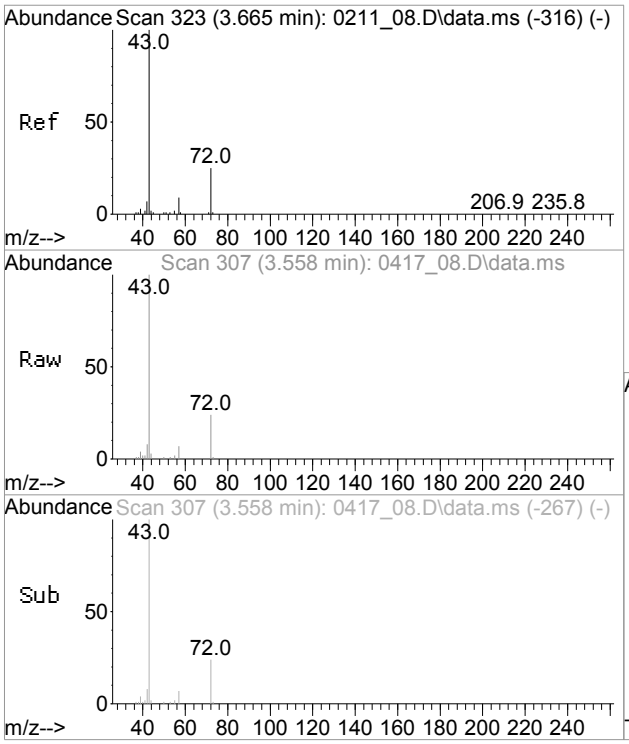


#12
Acetone
Concen: 9.78 ppbv
RT: 2.189 min Scan# 130
Delta R.T. -0.034 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 43 Resp: 186129

Ion	Ratio	Lower	Upper
43	100		
58	25.4	21.8	32.8

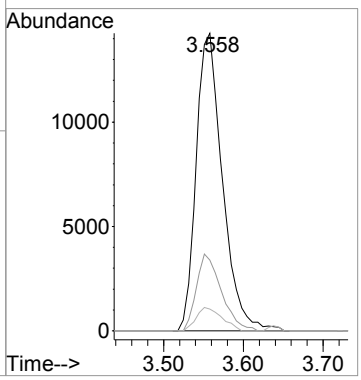


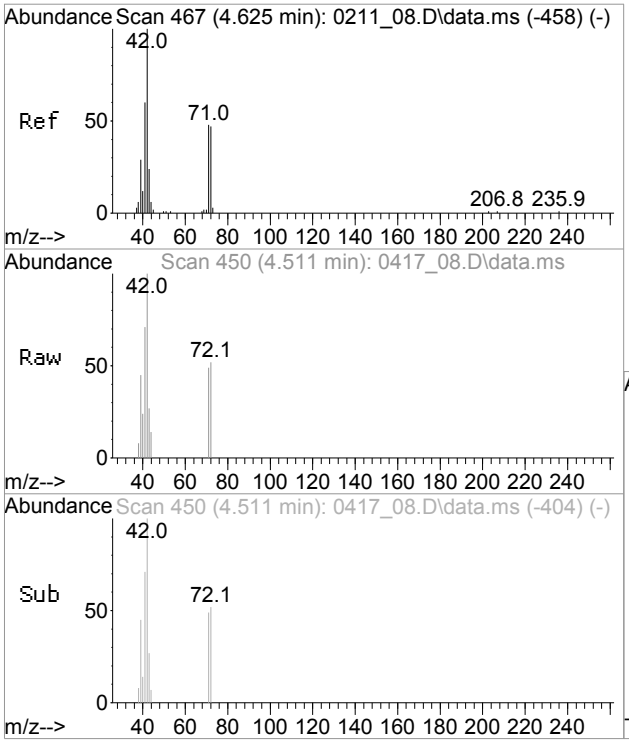


#25
Methyl Ethyl Ketone
Concen: 1.82 ppbv
RT: 3.558 min Scan# 307
Delta R.T. -0.033 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 43 Resp: 32593

Ion	Ratio	Lower	Upper
43	100		
72	24.5	17.7	26.5
57	7.7	5.9	8.9

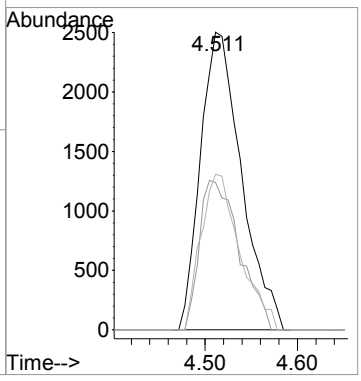


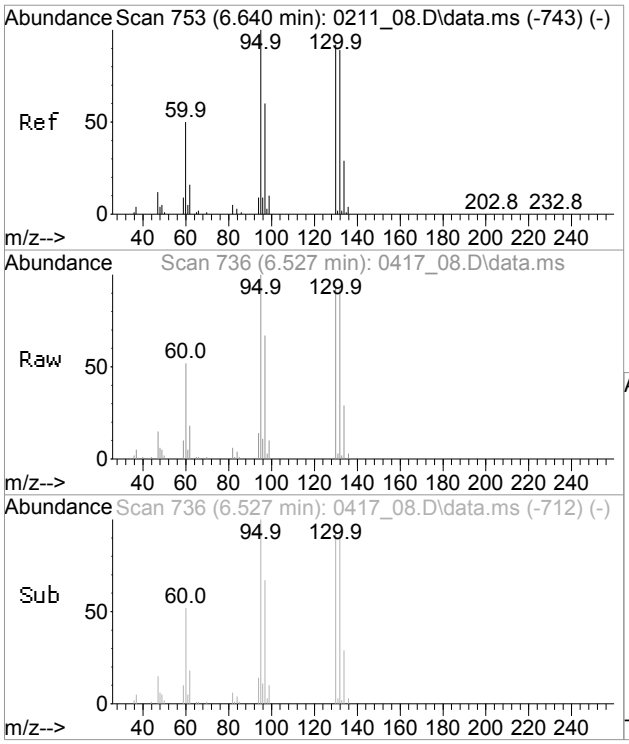


#30
Tetrahydrofuran
Concen: 0.98 ppbv
RT: 4.511 min Scan# 450
Delta R.T. 0.007 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 42 Resp: 7714

Ion	Ratio	Lower	Upper
42	100		
71	48.9	33.8	50.8
72	49.9	33.4	50.0

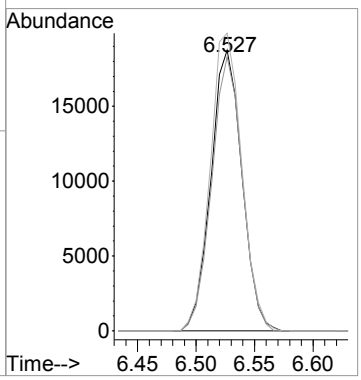


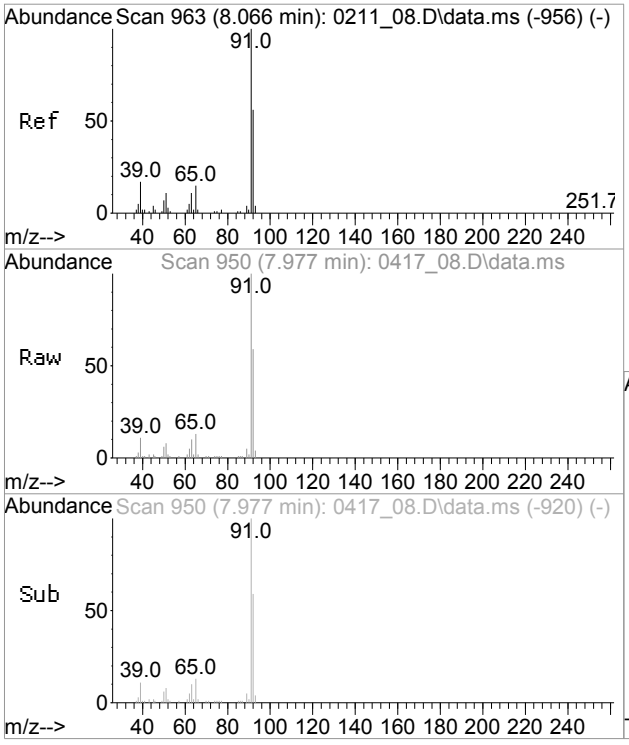


#39
Trichloroethene
Concen: 1.97 ppbv
RT: 6.527 min Scan# 736
Delta R.T. 0.013 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion:130 Resp: 34712

Ion	Ratio	Lower	Upper
130	100		
132	95.8	80.7	121.1
95	108.3	69.5	104.3#

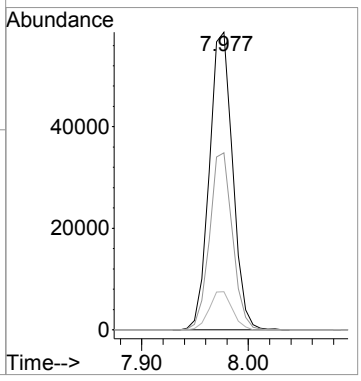


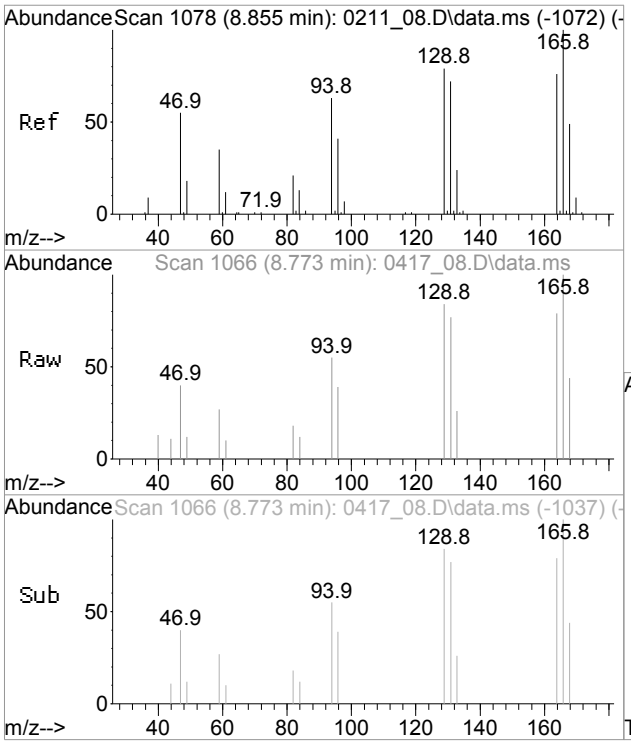


#48
Toluene
Concen: 2.15 ppbv
RT: 7.977 min Scan# 950
Delta R.T. 0.007 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 91 Resp: 88837

Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.5	72.7
65	12.7	10.1	15.1

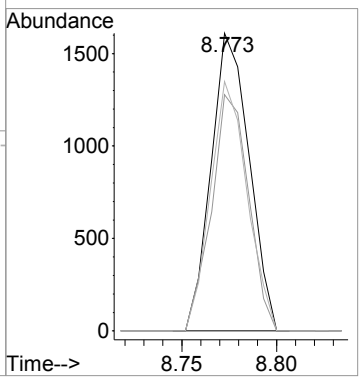


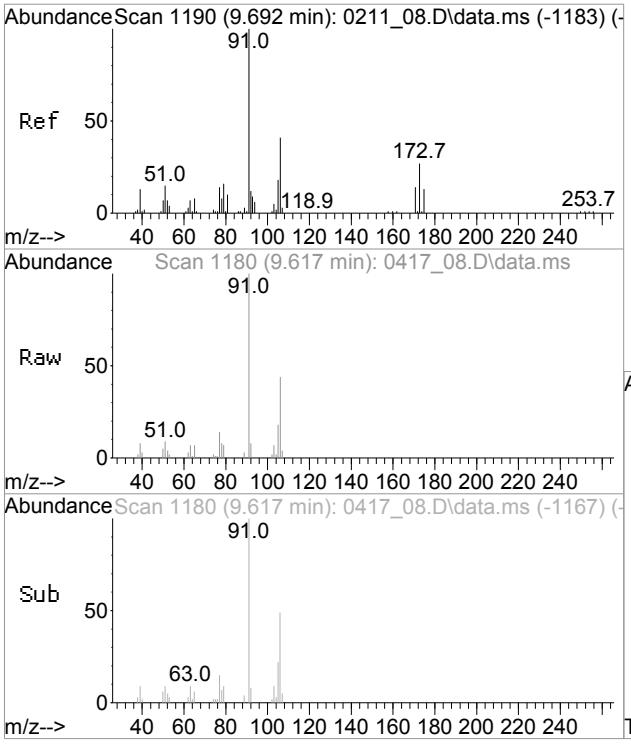


#52
Tetrachloroethene
Concen: Below Cal
RT: 8.773 min Scan# 1066
Delta R.T. 0.000 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion:166 Resp: 2248

Ion	Ratio	Lower	Upper
166	100		
164	77.5	63.1	94.7
129	81.0	48.7	73.1#

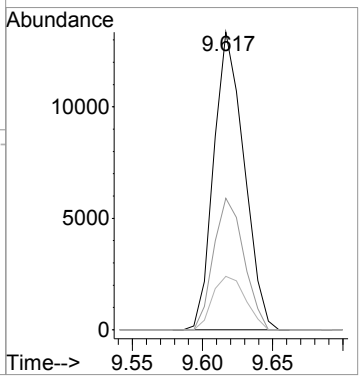


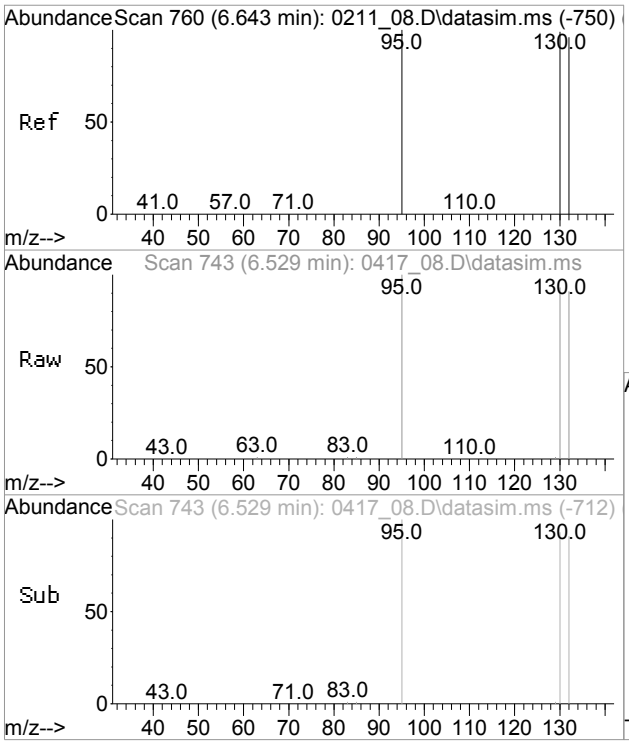


#57
m,p-Xylene
Concen: 0.47 ppbv
RT: 9.617 min Scan# 1180
Delta R.T. 0.000 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 91 Resp: 20054

Ion	Ratio	Lower	Upper
91	100		
106	44.3	38.8	58.2
105	19.5	17.0	25.6

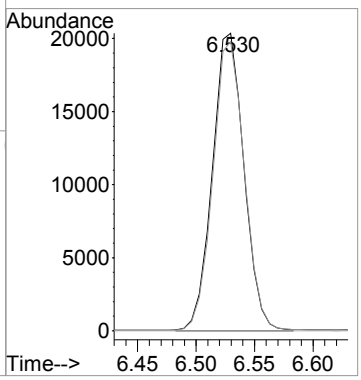


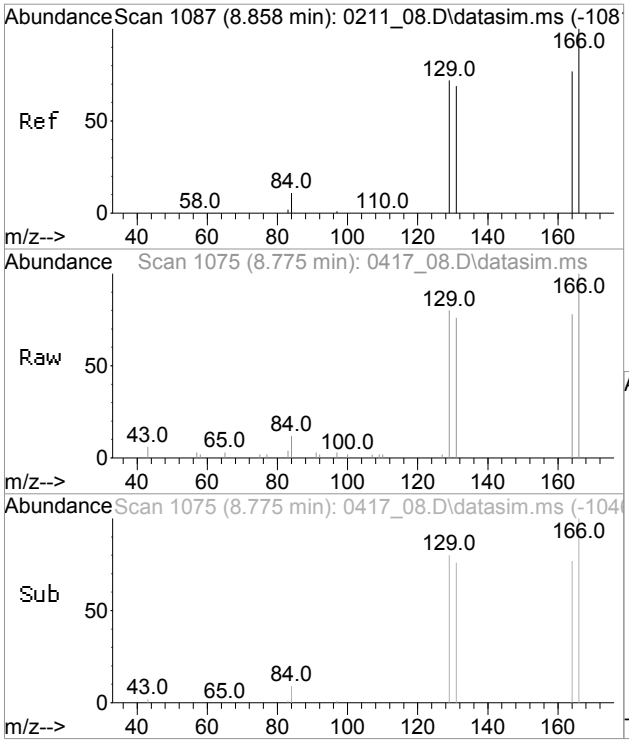


#96
Trichloroethene(sim)
Concen: 2.37 ppbv
RT: 6.527 min Scan# 743
Delta R.T. 0.004 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion:130 Resp: 34712

Ion	Ratio	Lower	Upper
130	100		
132	95.8	80.7	121.1
97	70.3	44.8	67.2#

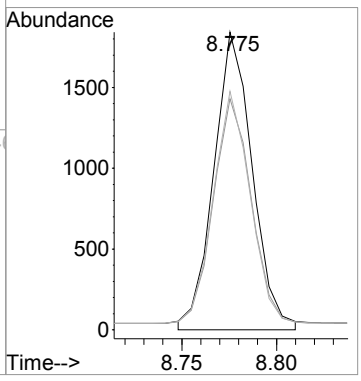


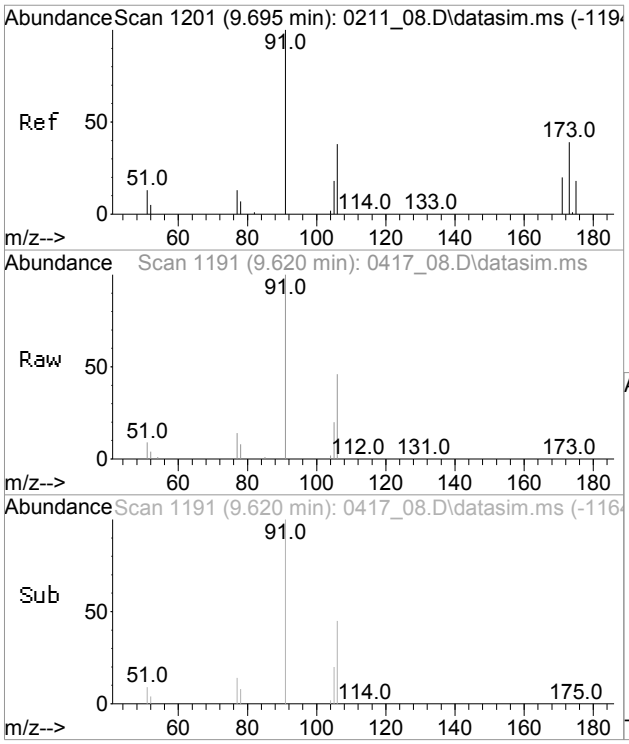


#102
Tetrachloroethene(sim)
Concen: 0.11 ppbv
RT: 8.773 min Scan# 1075
Delta R.T. -0.003 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion:166 Resp: 2248

Ion	Ratio	Lower	Upper
166	100		
164	77.5	58.9	98.9
129	81.0	40.9	80.9#

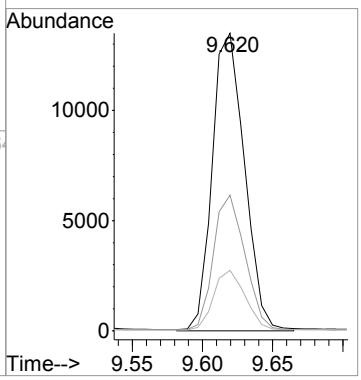




#106
m,p-Xylene(sim)
Concen: 0.49 ppbv
RT: 9.617 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 0417_08.D
Acq: 17 Apr 2017 1:11 pm

Tgt Ion: 91 Resp: 20054

Ion	Ratio	Lower	Upper
91	100		
106	44.3	43.6	53.3
105	19.5	17.0	25.6



AIR ANALYSIS DATA SHEET

CLIENT ID: IA-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03106

Canister: 21323 Lab File ID: 0412_41.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.62		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.554		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	179	ES	0.531	0.531	r
67-64-1	Acetone	11.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.266		0.178	0.178	r
67-63-0	Isopropylalcohol	2.17	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	2.16	S	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.659		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.329		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.320		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.77		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.352		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.747		0.230	0.230	r
95-47-6	o-Xylene	0.291		0.230	0.230	r
95-63-6	1,2,4-Trimethylbenzene	0.329		0.204	0.204	r
135-98-8	sec-Butylbenzene	0.182	U	0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.109		0.040	0.040	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03106

Canister: 21323 Lab File ID: 0412_41.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_41.D
Acq On : 13 Apr 2017 07:14 pm
Operator : CORTEX\ms
Client ID : IA-1
Lab ID : BY03106
ALS Vial : 1 Sample Multiplier: 1

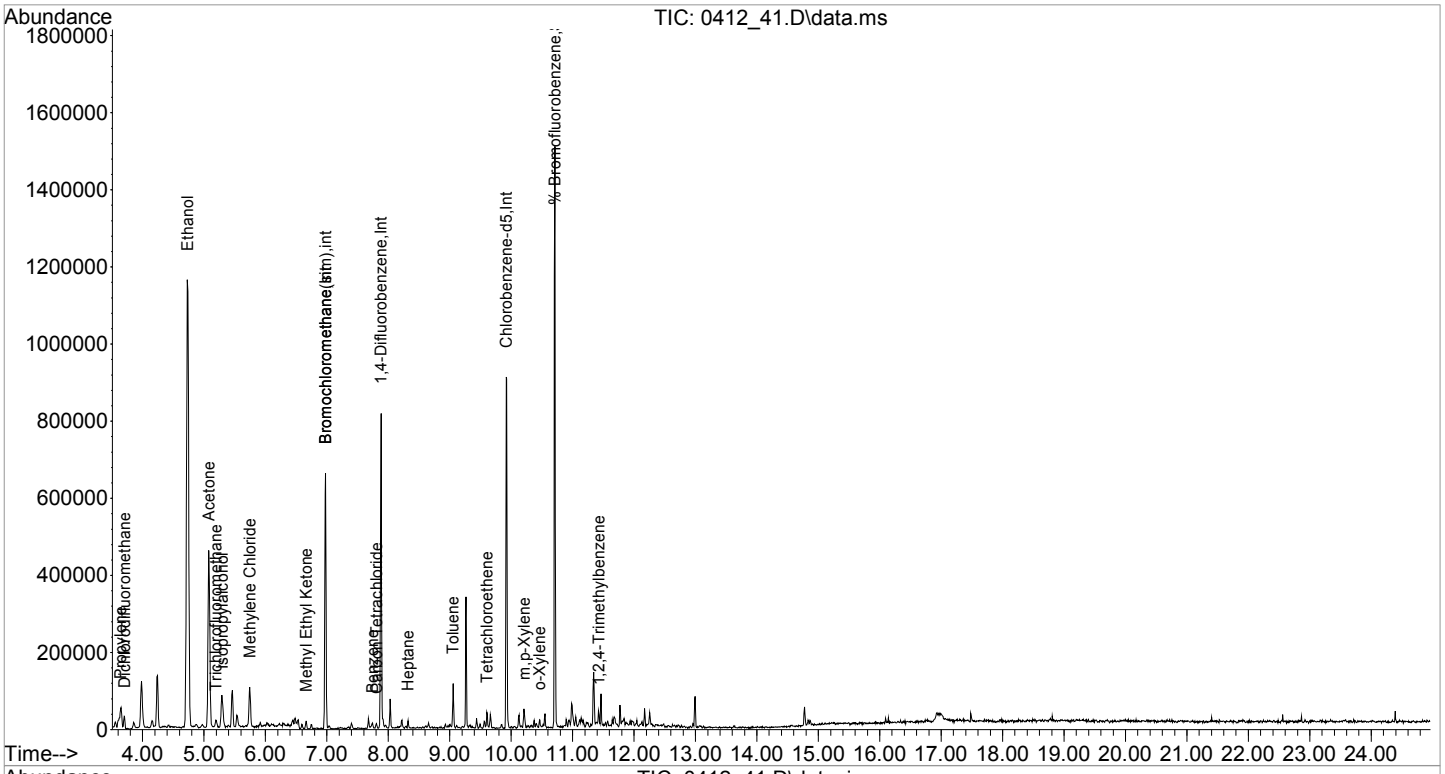
Quant Time: Apr 14 14:07:10 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

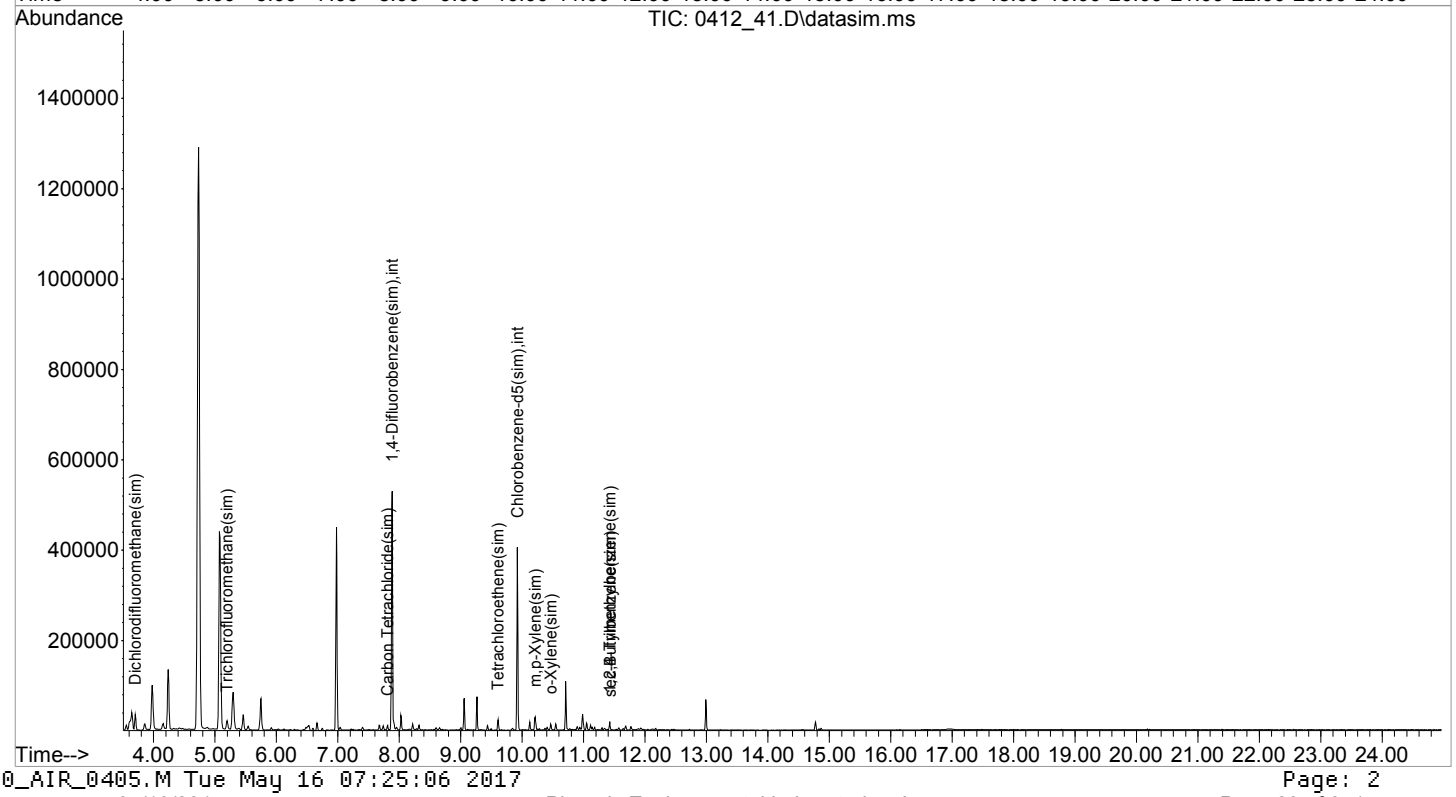
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	124045	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	322993	10.000	ng		0.00
53) Chlorobenzene-d5	9.920	82	128810	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	124045	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	389164	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	138332	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.712	95	206592	11.793	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.90%				
Target Compounds							Qvalue
2) Propylene	3.643	41	20936	1.619	ppbv#		59
3) Dichlorodifluoromethane	3.708	85	24718	0.554	ppbv#		95
11) Ethanol	4.730	45	1498947	178.910	ppbv		94
12) Acetone	5.079	43	451619	11.748	ppbv#		69
13) Trichlorofluoromethane	5.192	101	14009	0.266	ppbv#		94
14) Isopropylalcohol	5.298	45	82243	2.172	ppbv#		77
17) Methylene Chloride	5.745	49	59063	2.157	ppbv#		69
25) Methyl Ethyl Ketone	6.663	43	17629	0.659	ppbv#		84
33) Benzene	7.740	78	7579	0.329	ppbv#		80
34) Carbon Tetrachloride	7.807	117	4234	0.110	ppbv		99
43) Heptane	8.321	43	3822m	0.319	ppbv#		
48) Toluene	9.055	91	39936	1.768	ppbv#		95
52) Tetrachloroethene	9.604	166	6440	0.352	ppbv		96
56) Ethylbenzene	10.127	91	6124	0.229	ppbv		82
57) m,p-Xylene	10.208	91	16297	0.747	ppbv		99
61) o-Xylene	10.460	91	6533	0.291	ppbv		91
68) 1,2,4-Trimethylbenzene	11.430	105	9183	0.329	ppbv#		82
81] Dichlorodifluoromethan...	3.702	85	29115	0.523	ppbv		95
85] Trichlorofluoromethane...	5.195	101	17509	0.255	ppbv		100
88] Carbon Tetrachloride(sim)	7.807	117	4234	0.108	ppbv		99
96] Benzene(sim)	7.740	78	7579	0.308	ppbv#		80
106] Tetrachloroethene(sim)	9.604	166	6184	0.346	ppbv		97
111] m,p-Xylene(sim)	10.211	91	18349	0.741	ppbv		99
114] o-Xylene(sim)	10.460	91	6533	0.295	ppbv		89
119] 1,2,4-Trimethylbenzene...	11.426	105	8536	0.308	ppbv#		87
124] sec-Butylbenzene(sim)	11.430	105	9182	0.372	ppbv		74

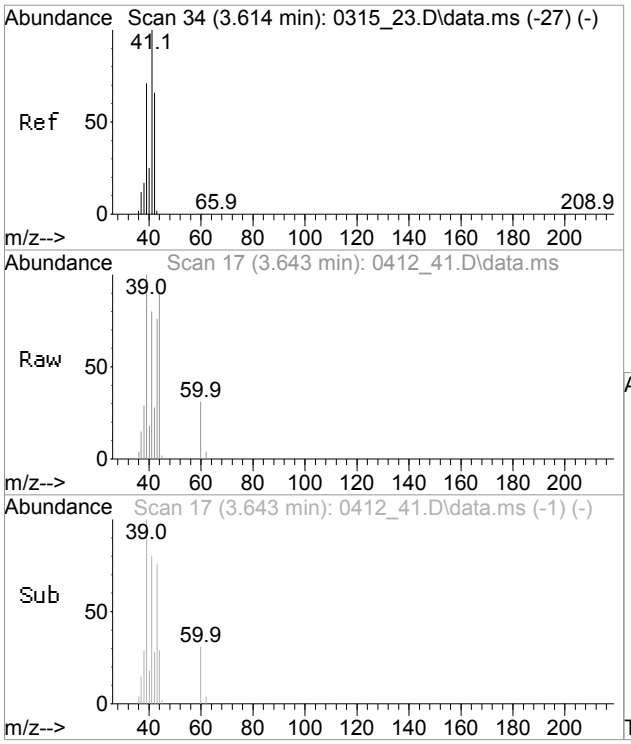
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_41.D
Acq On : 13 Apr 2017 07:14 pm
Operator : CORTEX\ms
Client ID : IA-1
Lab ID : BY03106
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:07:10 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration



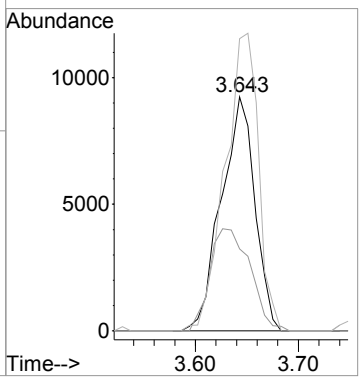


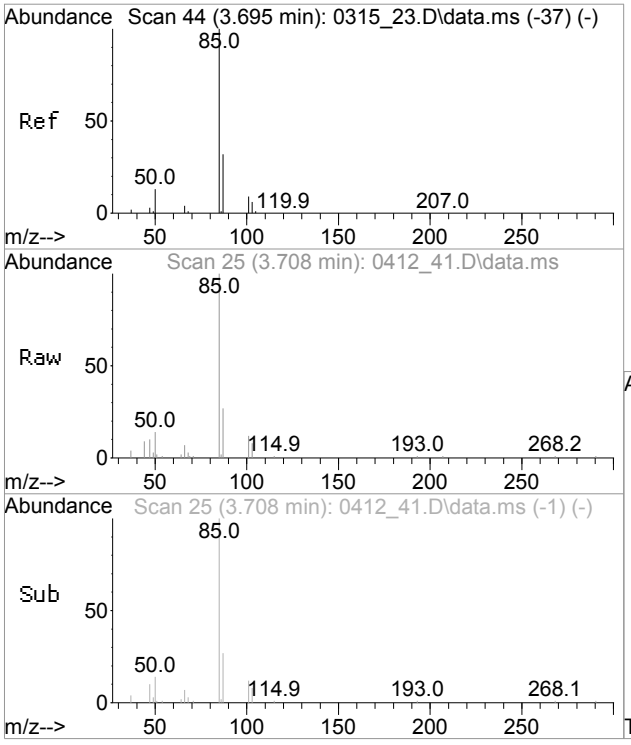


#2
Propylene
Concen: 1.62 ppbv
RT: 3.643 min Scan# 17
Delta R.T. -0.008 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 41 Resp: 20936

Ion	Ratio	Lower	Upper
41	100		
42	52.1	52.7	79.1#
39	126.3	59.1	88.7#

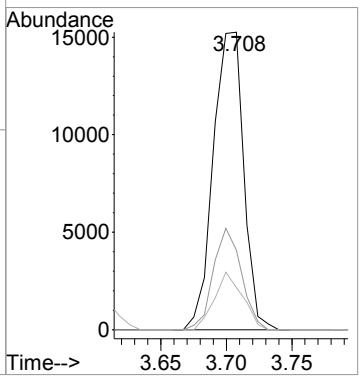


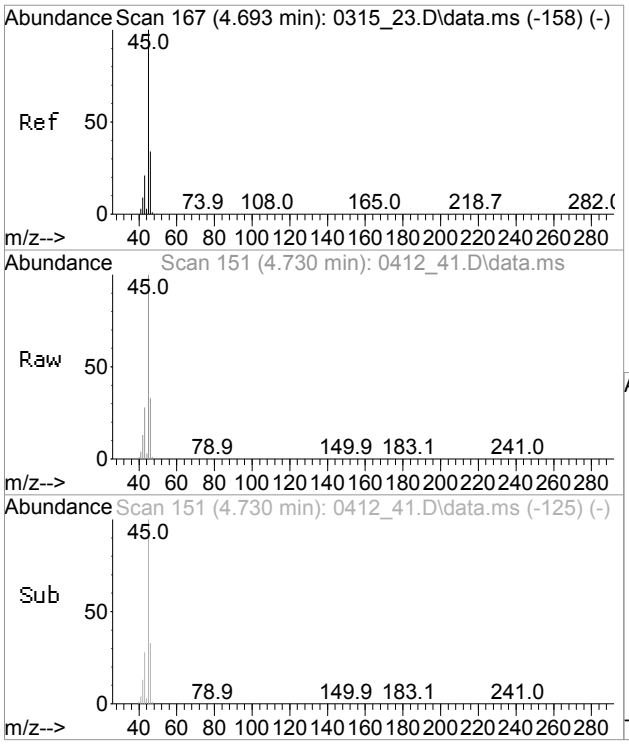


#3
Dichlorodifluoromethane
Concen: 0.55 ppbv
RT: 3.708 min Scan# 25
Delta R.T. -0.008 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 85 Resp: 24718

Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.1	39.1
50	17.9	10.5	15.7#

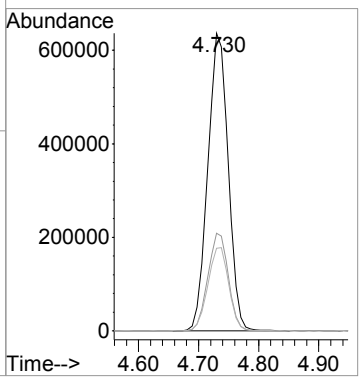


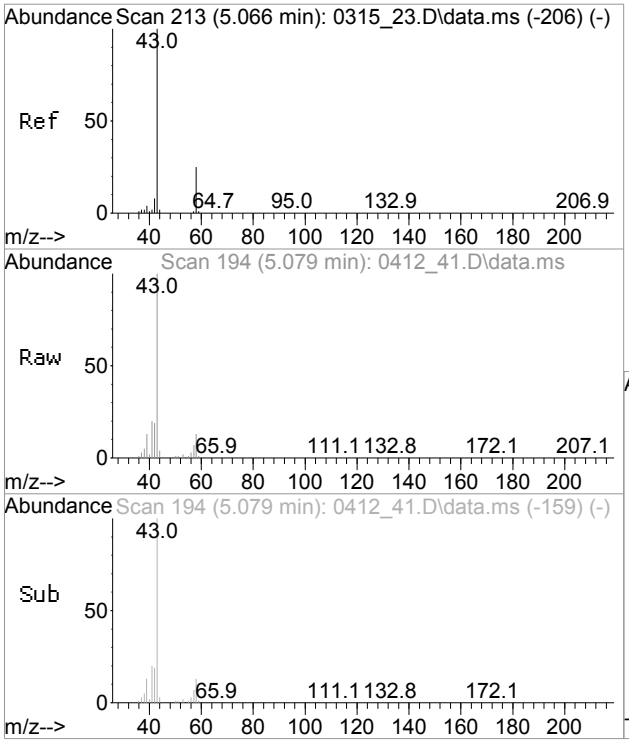


#11
Ethanol
Concen: 178.91 ppbv
RT: 4.730 min Scan# 151
Delta R.T. 0.009 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 45 Resp: 1498947

Ion	Ratio	Lower	Upper
45	100		
46	32.9	28.5	42.7
43	28.6	19.7	29.5

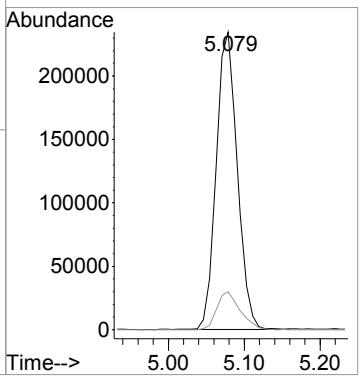


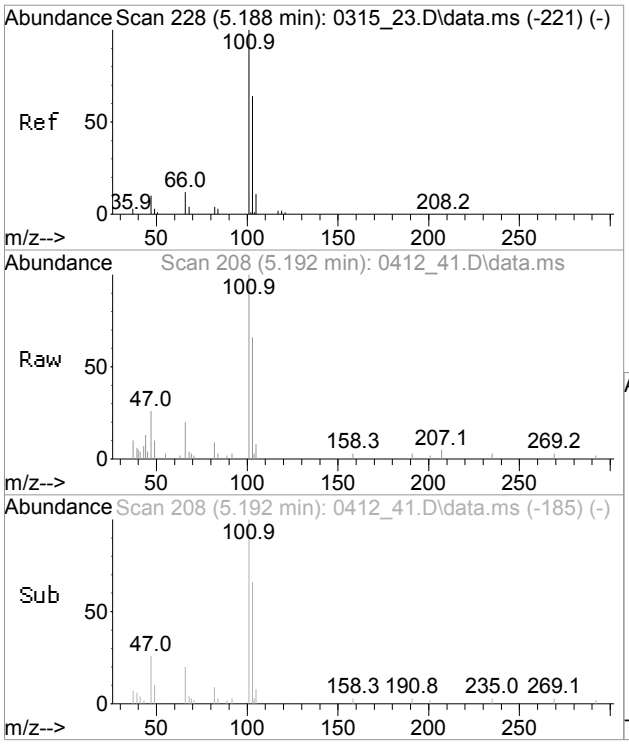


#12
Acetone
Concen: 11.75 ppbv
RT: 5.079 min Scan# 194
Delta R.T. -0.016 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 43 Resp: 451619

Ion	Ratio	Lower	Upper
43	100		
58	14.2	24.8	37.2#

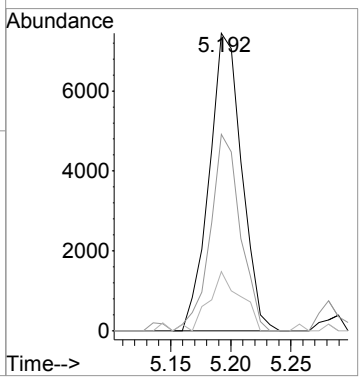


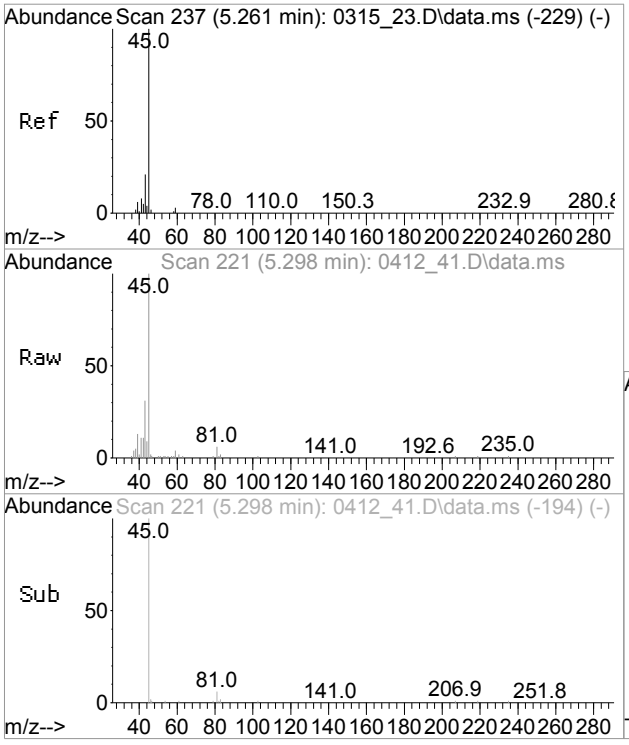


#13
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 5.192 min Scan# 208
Delta R.T. -0.016 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:101 Resp: 14009

Ion	Ratio	Lower	Upper
101	100		
103	61.2	51.8	77.8
66	19.5	11.1	16.7#

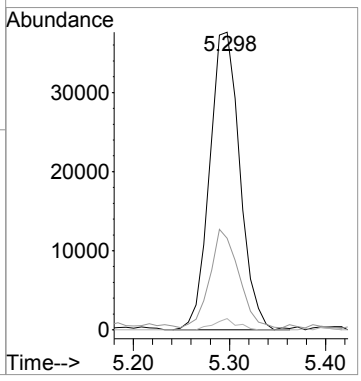


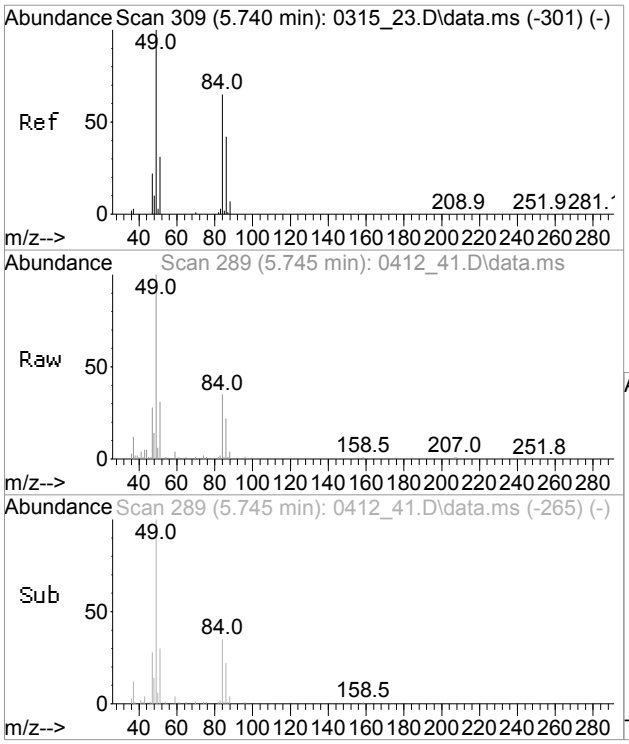


#14
Isopropylalcohol
Concen: 2.17 ppbv
RT: 5.298 min Scan# 221
Delta R.T. 0.017 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 45 Resp: 82243

Ion	Ratio	Lower	Upper
45	100		
43	31.5	15.4	23.0#
59	2.9	3.0	4.4#

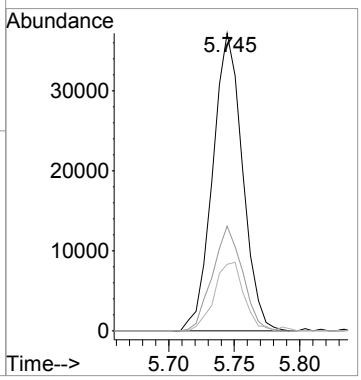


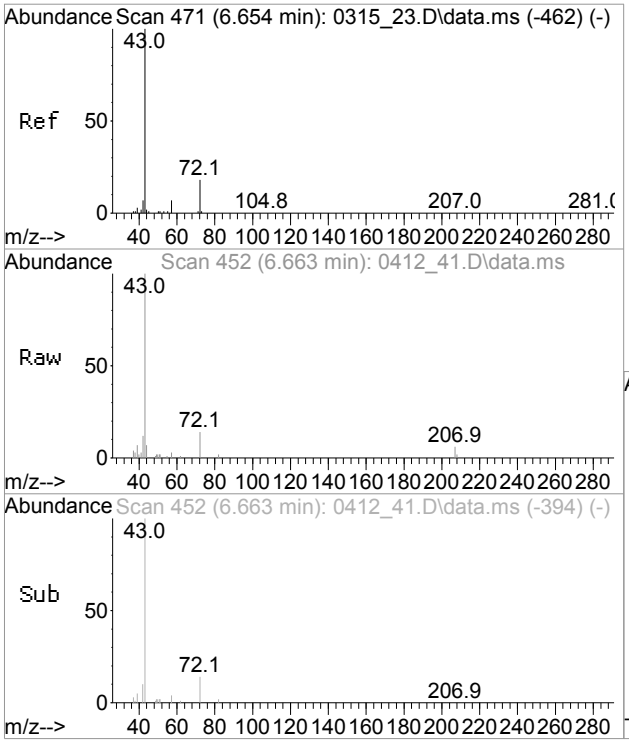


#17
Methylene Chloride
Concen: 2.16 ppbv
RT: 5.745 min Scan# 289
Delta R.T. -0.006 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 49 Resp: 59063

Ion	Ratio	Lower	Upper
49	100		
84	35.2	49.2	73.8#
86	22.9	31.5	47.3#

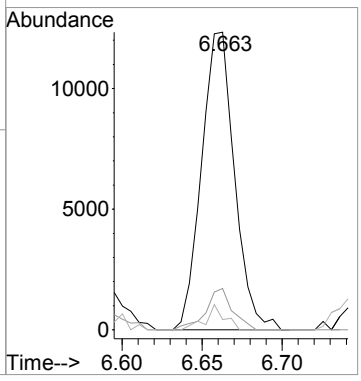


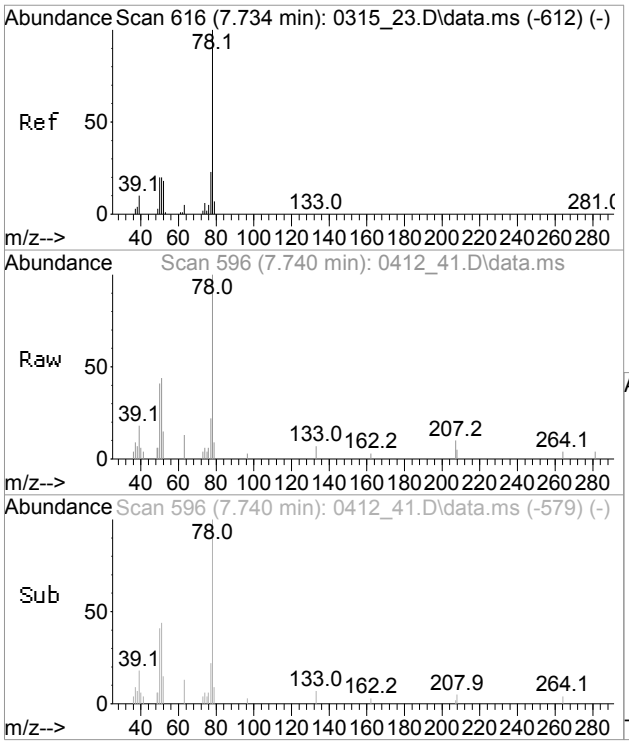


#25
Methyl Ethyl Ketone
Concen: 0.66 ppbv
RT: 6.663 min Scan# 452
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 43 Resp: 17629

Ion	Ratio	Lower	Upper
43	100		
72	11.3	15.9	23.9#
57	4.8	5.6	8.4#

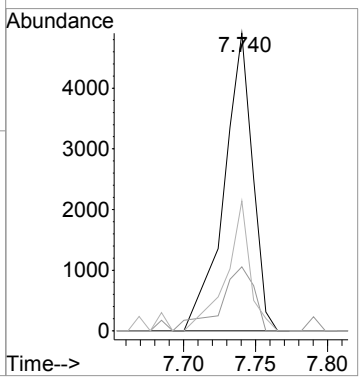


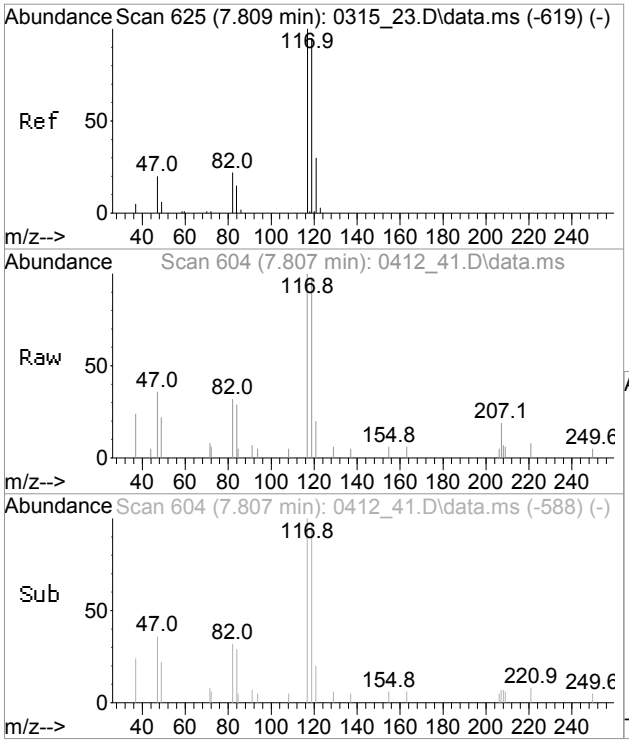


#33
Benzene
Concen: 0.33 ppbv
RT: 7.740 min Scan# 596
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 78 Resp: 7579

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.6	27.8
51	36.9	14.9	22.3#

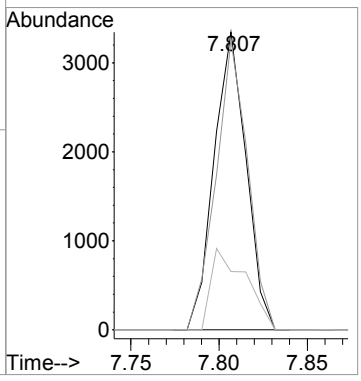


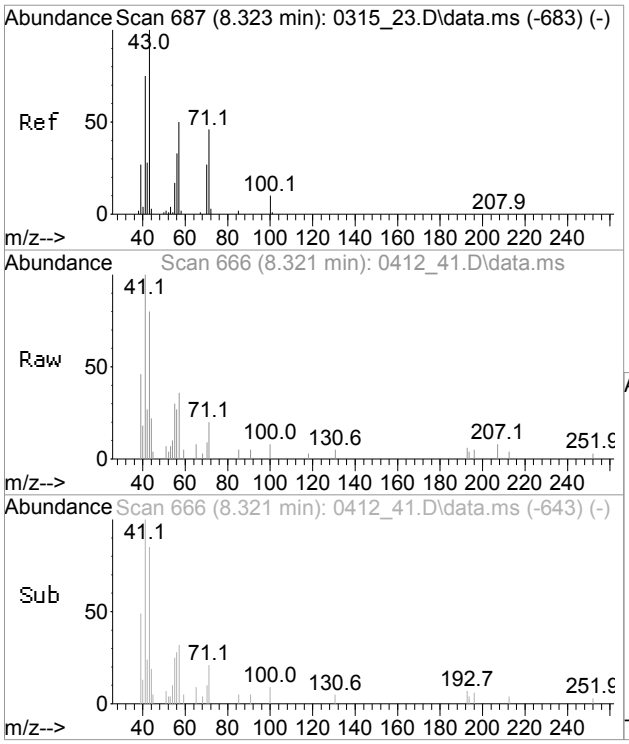


#34
Carbon Tetrachloride
Concen: Below Cal
RT: 7.807 min Scan# 604
Delta R.T. -0.008 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:117 Resp: 4234

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.9	115.9
121	29.6	10.8	50.8

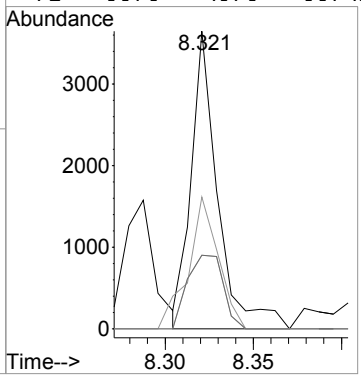


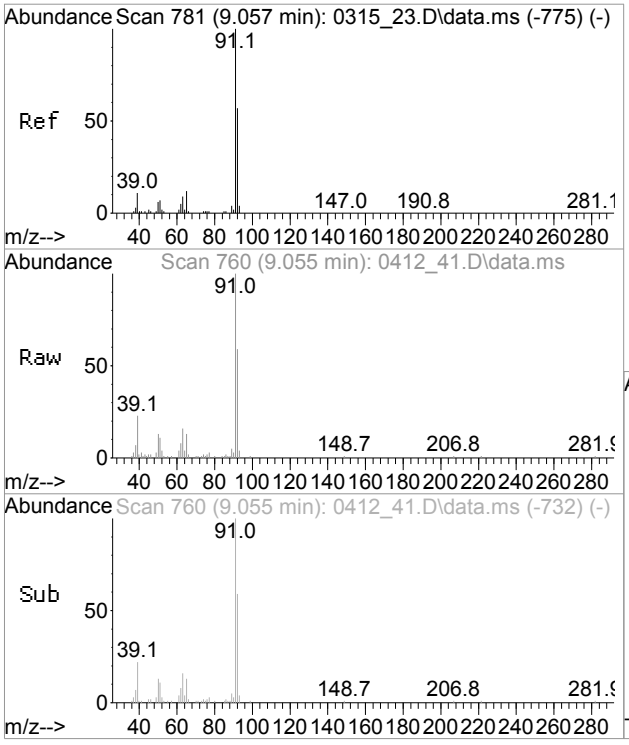


#43
Heptane
Concen: 0.32 ppbv m
RT: 8.321 min Scan# 666
Delta R.T. -0.008 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 43 Resp: 3822

Ion	Ratio	Lower	Upper
43	100		
57	50.2	43.0	64.4
71	33.3	43.6	65.4#
71	33.3	43.6	65.4#

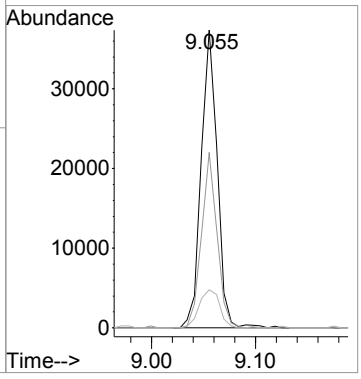


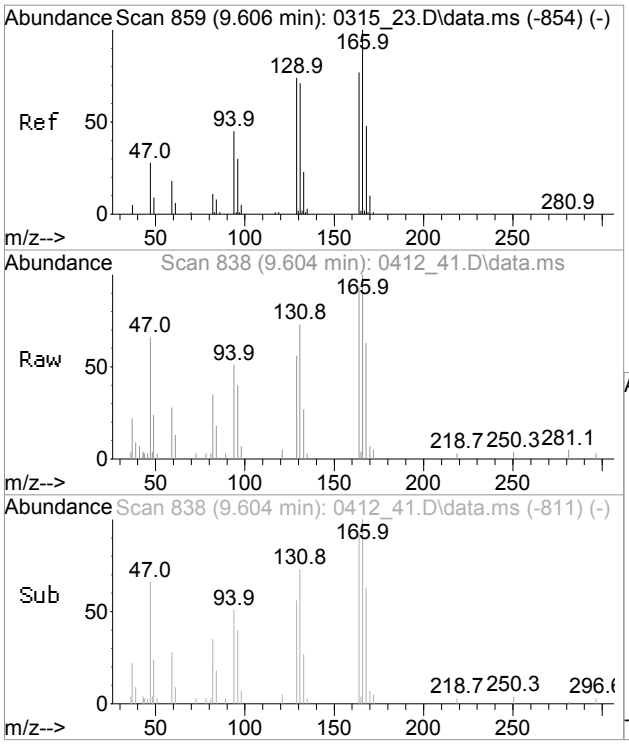


#48
Toluene
Concen: 1.77 ppbv
RT: 9.055 min Scan# 760
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 39936

Ion	Ratio	Lower	Upper
91	100		
92	57.0	47.7	71.5
65	16.3	9.5	14.3#

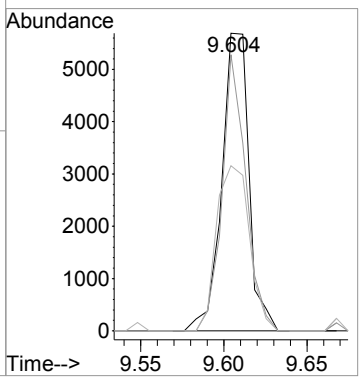


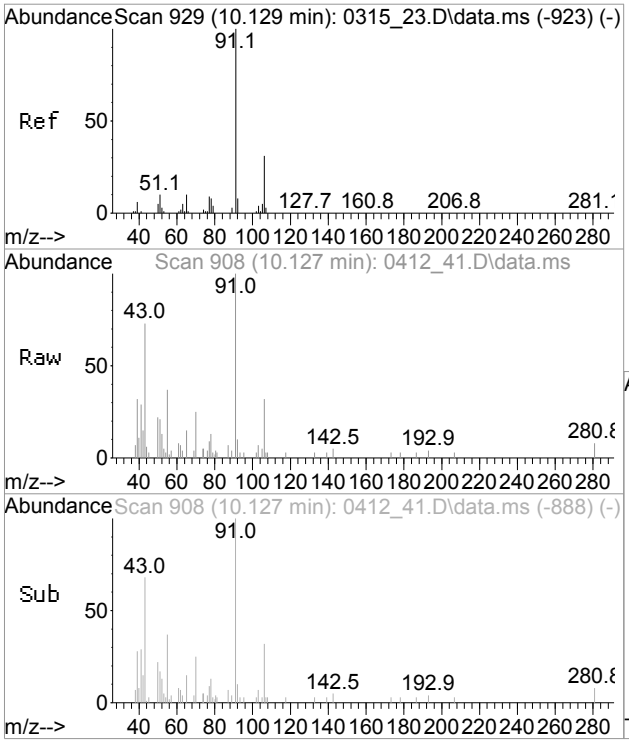


#52
Tetrachloroethene
Concen: 0.35 ppbv
RT: 9.604 min Scan# 838
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:166 Resp: 6440

Ion	Ratio	Lower	Upper
166	100		
164	81.3	62.2	93.4
129	67.7	56.6	84.8

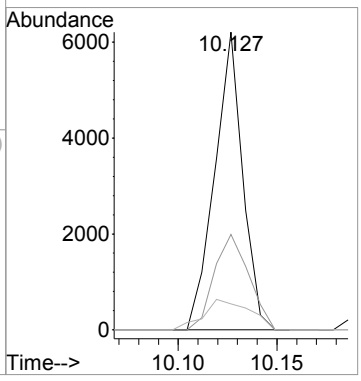


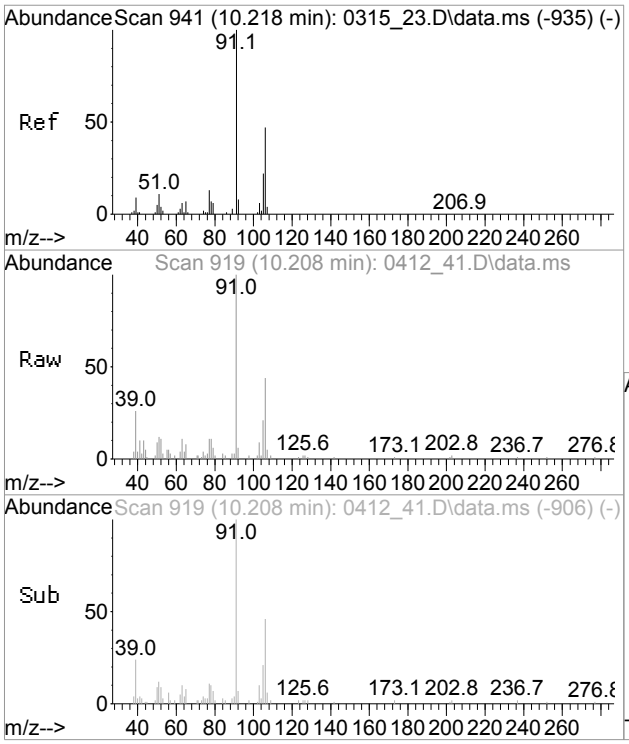


#56
Ethylbenzene
Concen: 0.23 ppbv
RT: 10.127 min Scan# 908
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 6124

Ion	Ratio	Lower	Upper
91	100		
106	39.8	10.8	50.8
77	16.8	0.0	28.9

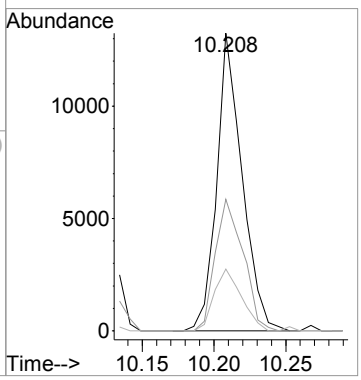


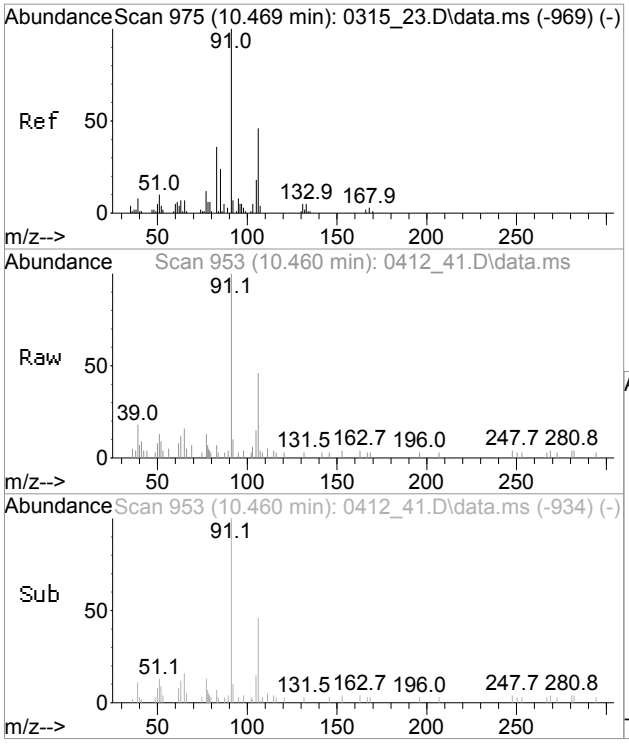


#57
m,p-Xylene
Concen: 0.75 ppbv
RT: 10.208 min Scan# 919
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 16297

Ion	Ratio	Lower	Upper
91	100		
106	48.6	38.7	58.1
105	22.5	16.6	25.0

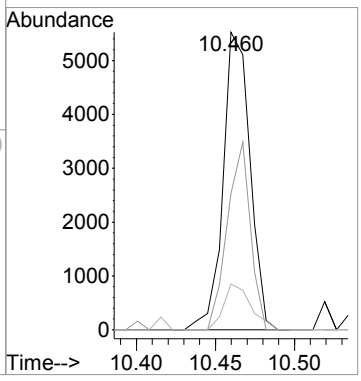


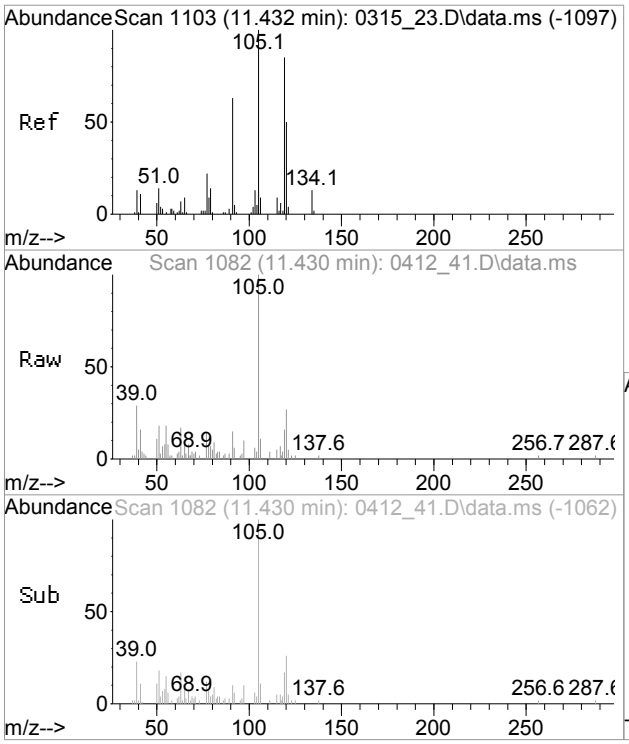


#61
o-Xylene
Concen: 0.29 ppbv
RT: 10.460 min Scan# 953
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 6533

Ion	Ratio	Lower	Upper
91	100		
106	53.8	37.4	56.2
105	15.6	14.1	21.1

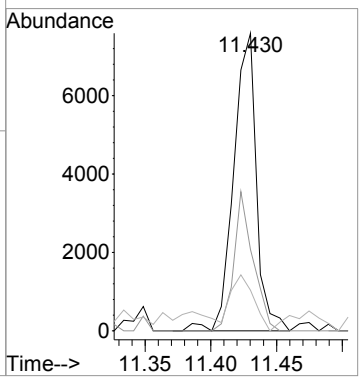


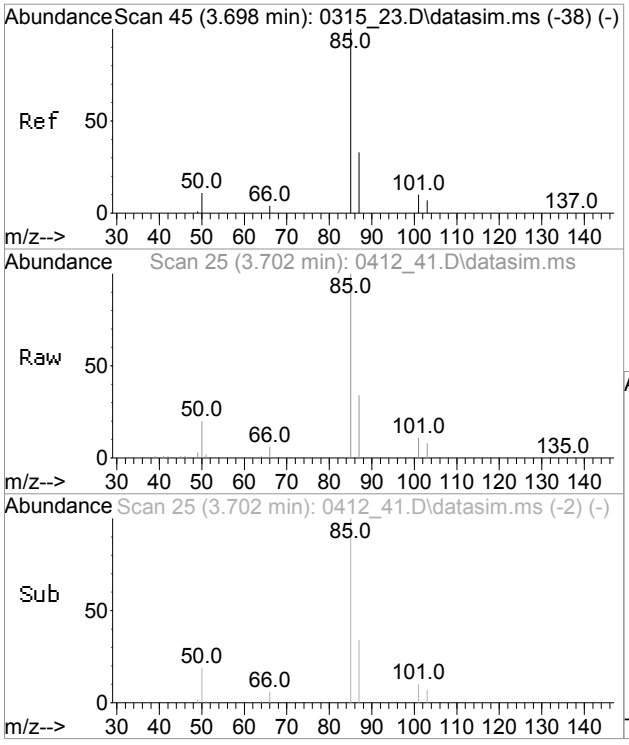


#68
1,2,4-Trimethylbenzene
Concen: 0.33 ppbv
RT: 11.430 min Scan# 1082
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:105 Resp: 9183

Ion	Ratio	Lower	Upper
105	100		
120	39.6	43.5	65.3#
77	19.1	20.2	30.4#

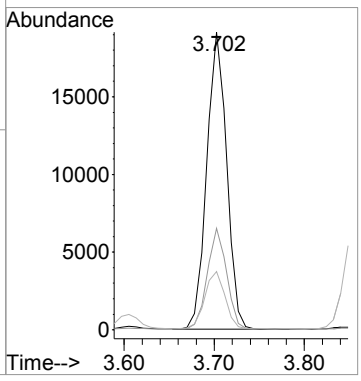


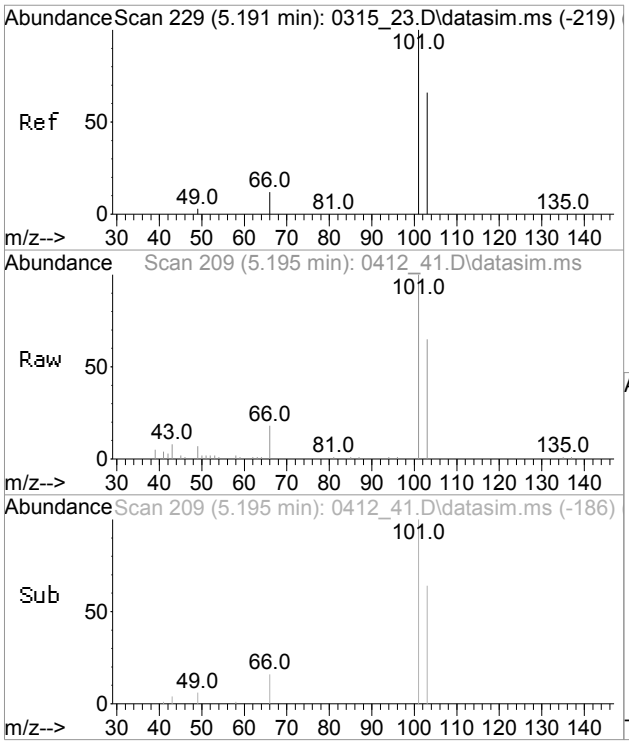


#81
Dichlorodifluoromethane(sim)
Concen: 0.52 ppbv
RT: 3.702 min Scan# 25
Delta R.T. -0.016 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 85 Resp: 29115

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.7	52.7
50	19.6	0.0	32.3

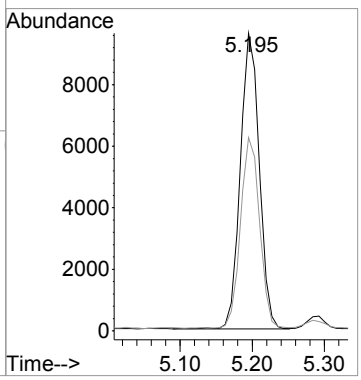


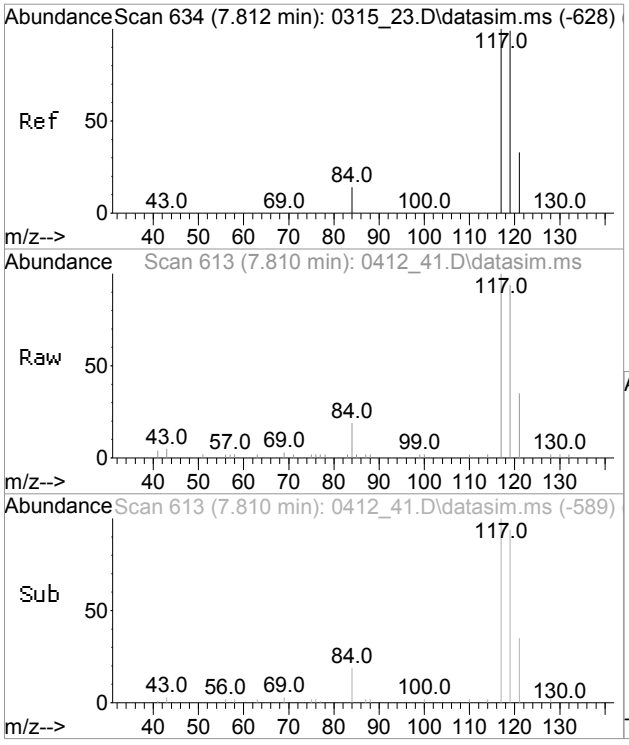


#85
Trichlorofluoromethane(sim)
Concen: 0.25 ppbv
RT: 5.195 min Scan# 209
Delta R.T. -0.016 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:101 Resp: 17509

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.0	78.0

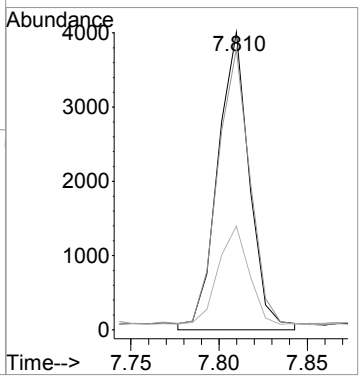


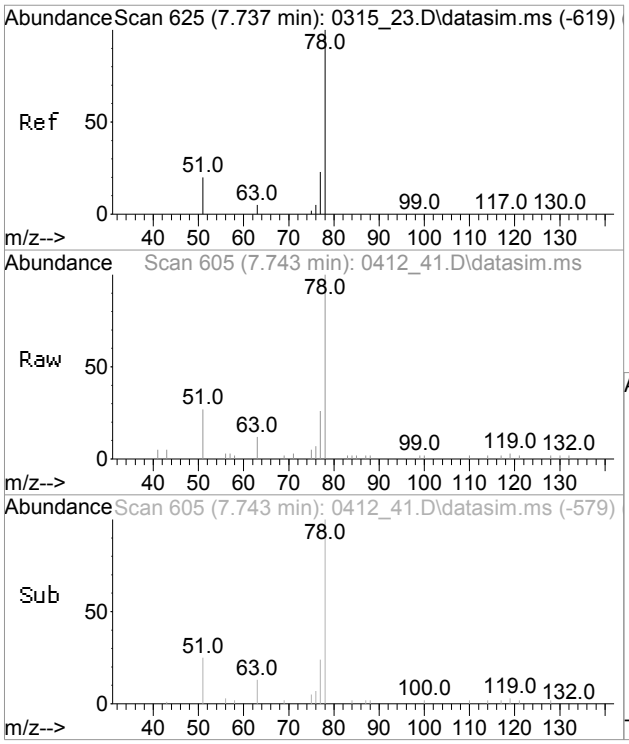


#88
Carbon Tetrachloride(sim)
Concen: 0.11 ppbv
RT: 7.807 min Scan# 613
Delta R.T. -0.008 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:117 Resp: 4234

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.7	115.1
121	29.6	24.6	37.0

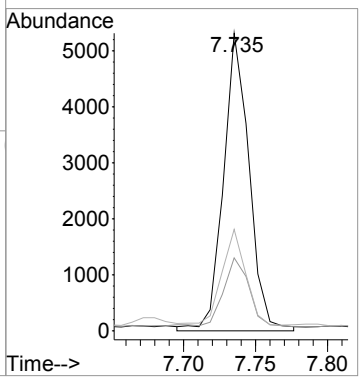


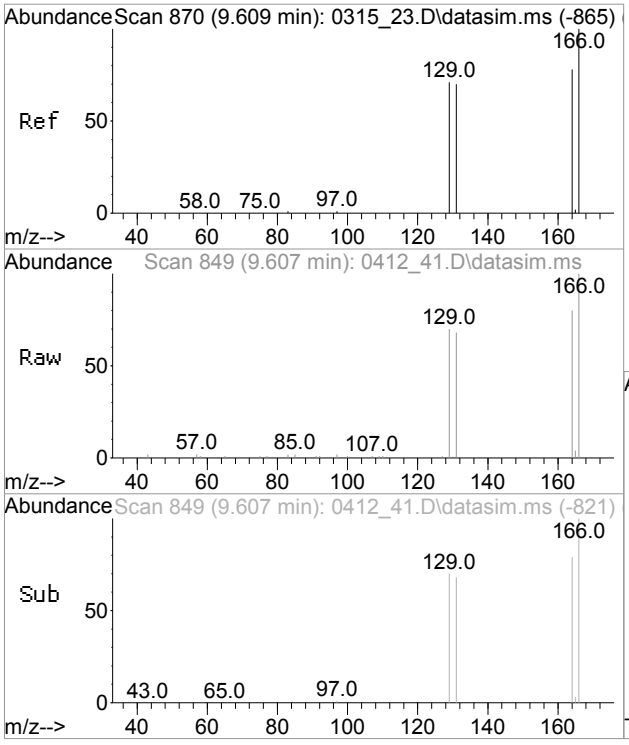


#96
Benzene(sim)
Concen: 0.31 ppbv
RT: 7.740 min Scan# 605
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 78 Resp: 7579

Ion	Ratio	Lower	Upper
78	100		
77	24.8	22.0	24.4#
51	36.9	14.9	22.3#

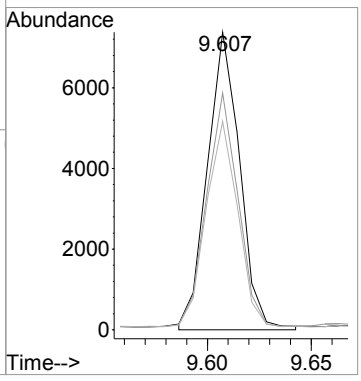


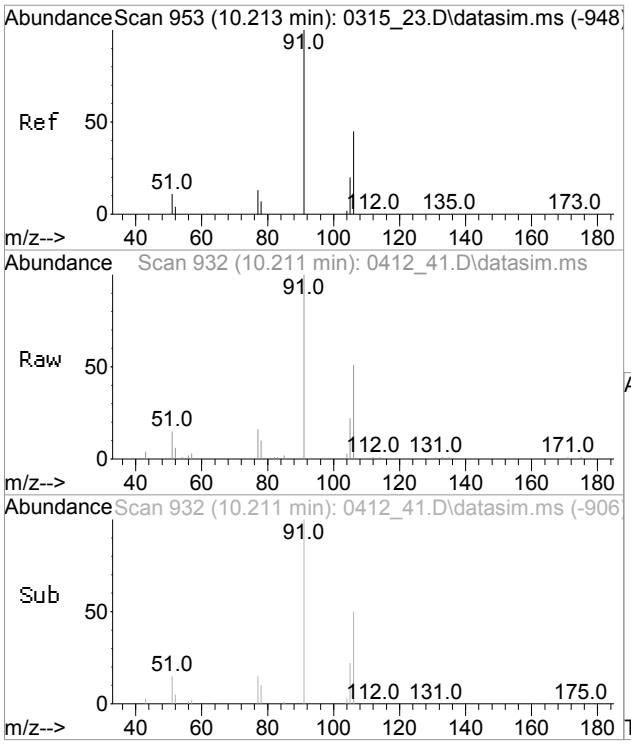


#106
Tetrachloroethene(sim)
Concen: 0.35 ppbv
RT: 9.604 min Scan# 849
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:166 Resp: 6184

Ion	Ratio	Lower	Upper
166	100		
164	82.7	57.8	97.8
129	70.5	50.7	90.7

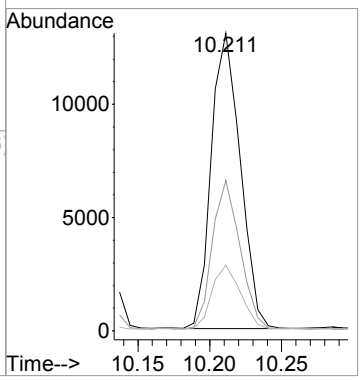


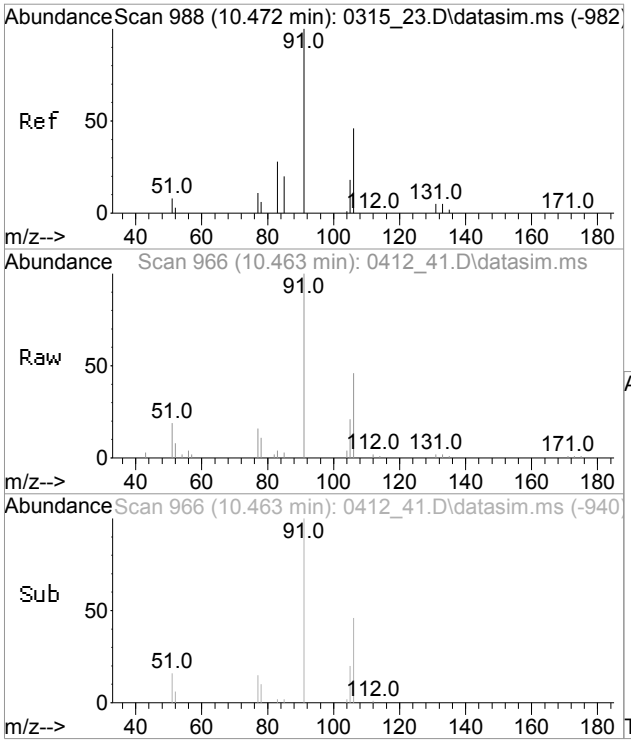


#111
m,p-Xylene(sim)
Concen: 0.74 ppbv
RT: 10.211 min Scan# 932
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 18349

Ion	Ratio	Lower	Upper
91	100		
106	48.3	43.6	53.2
105	21.5	16.6	25.0

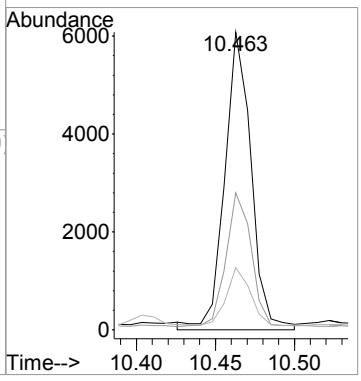


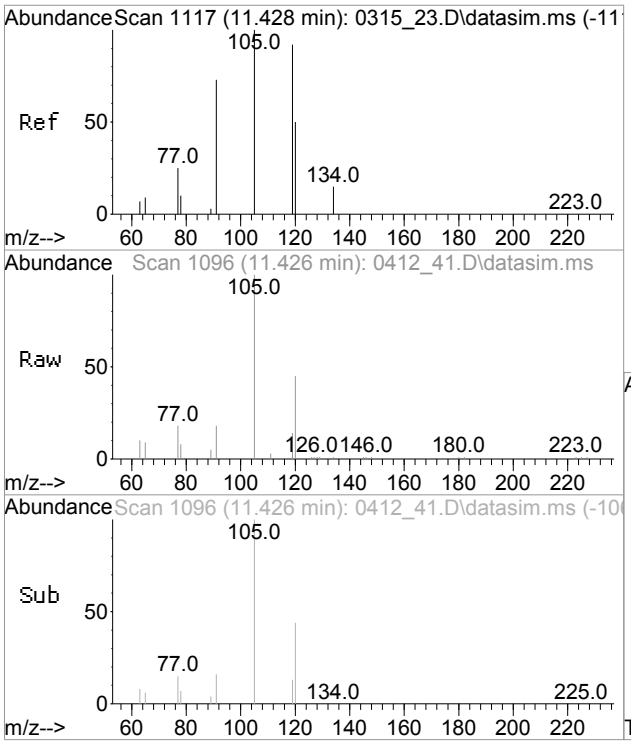


#114
o-Xylene(sim)
Concen: 0.29 ppbv
RT: 10.460 min Scan# 966
Delta R.T. -0.007 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion: 91 Resp: 6533

Ion	Ratio	Lower	Upper
91	100		
106	53.8	36.0	54.0
105	15.6	13.8	20.8

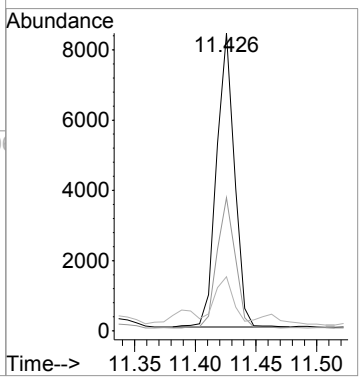


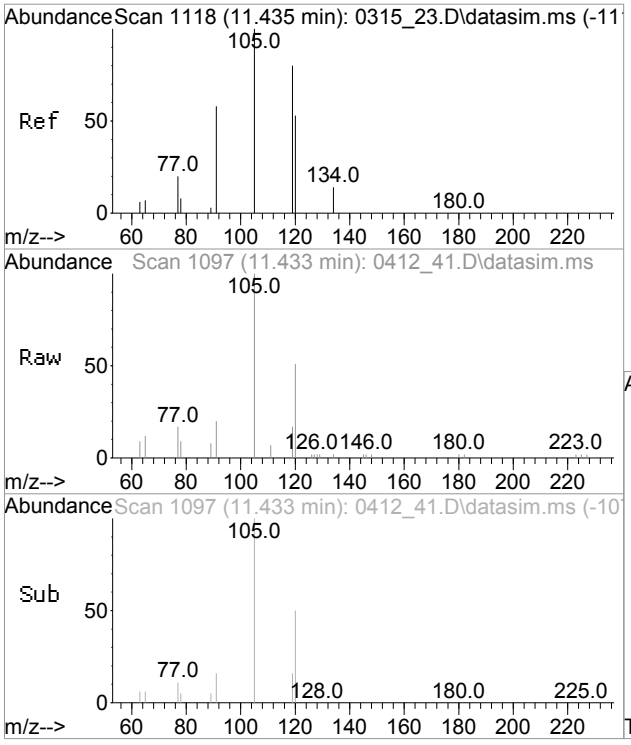


#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.31 ppbv
RT: 11.426 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:105 Resp: 8536

Ion	Ratio	Lower	Upper
105	100		
120	45.7	43.5	65.3
77	17.1	20.2	30.4#

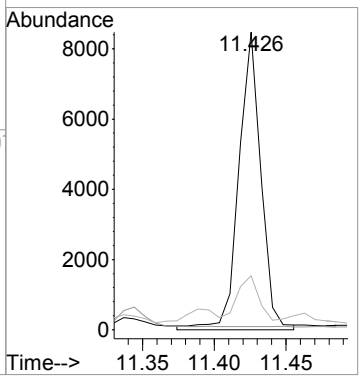




#124
sec-Butylbenzene(sim)
Concen: 0.37 ppbv
RT: 11.430 min Scan# 1097
Delta R.T. 0.000 min
Lab File: 0412_41.D
Acq: 13 Apr 2017 07:14 pm

Tgt Ion:105 Resp: 9182

Ion	Ratio	Lower	Upper
105	100		
134	0.0	0.0	35.9
77	19.1	0.0	34.1



AIR ANALYSIS DATA SHEET

CLIENT ID: OA-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107

Canister: 21333 Lab File ID: 0412_42.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.901		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.502		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	6.41	S	0.531	0.531	r
67-64-1	Acetone	7.55	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.267		0.178	0.178	r
67-63-0	Isopropylalcohol	1.20	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	11.9	S	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.473		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	2.03		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.391		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.30		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene	0.569		0.230	0.230	r
95-47-6	o-Xylene	0.245		0.230	0.230	r
135-98-8	sec-Butylbenzene	0.182	U	0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.080		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

CLIENT ID

AIR ANALYSIS DATA SHEET

OA-1

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107

Canister: 21333 Lab File ID: 0412_42.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.189		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_42.D
Acq On : 13 Apr 2017 07:55 pm
Operator : CORTEX\ms
Client ID : OA-1
Lab ID : BY03107
ALS Vial : 1 Sample Multiplier: 1

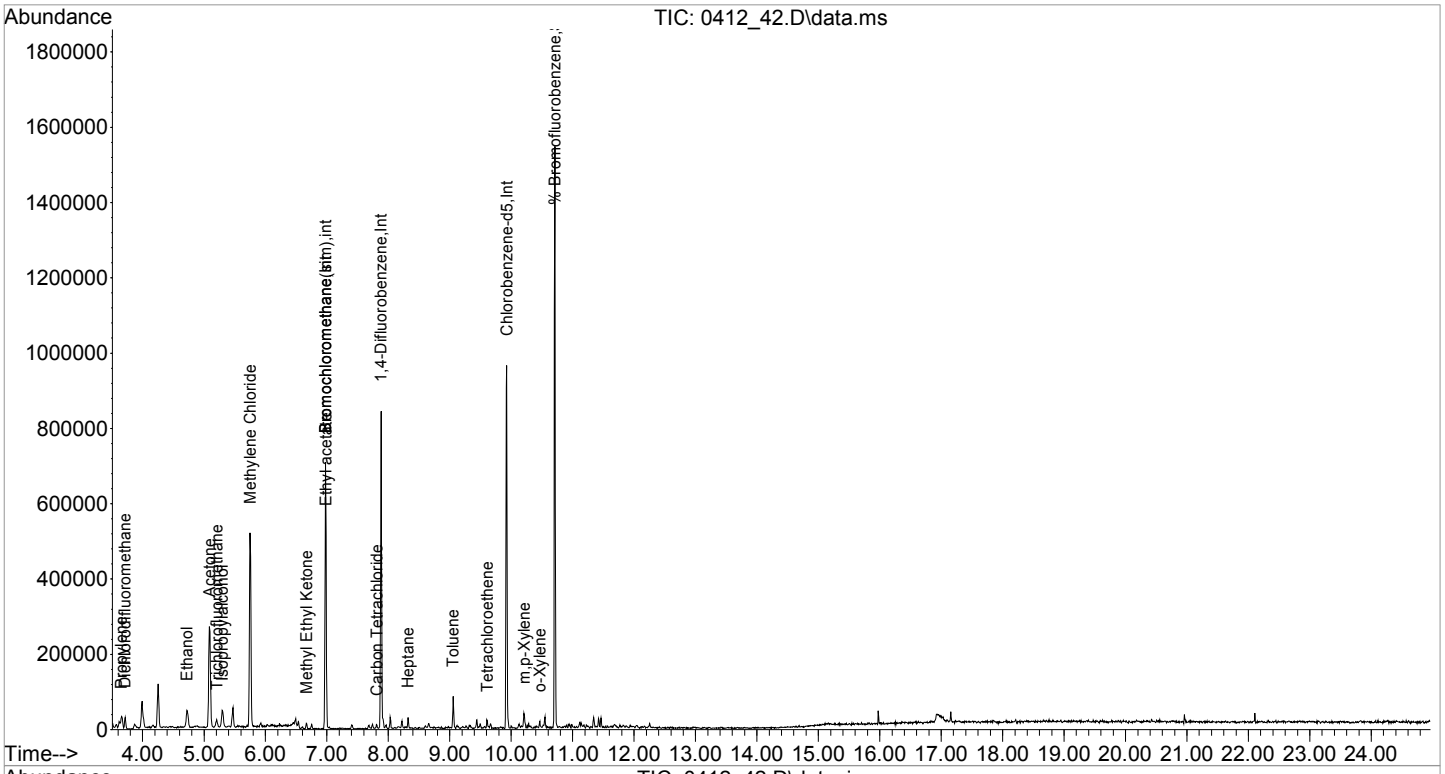
Quant Time: Apr 14 14:08:28 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

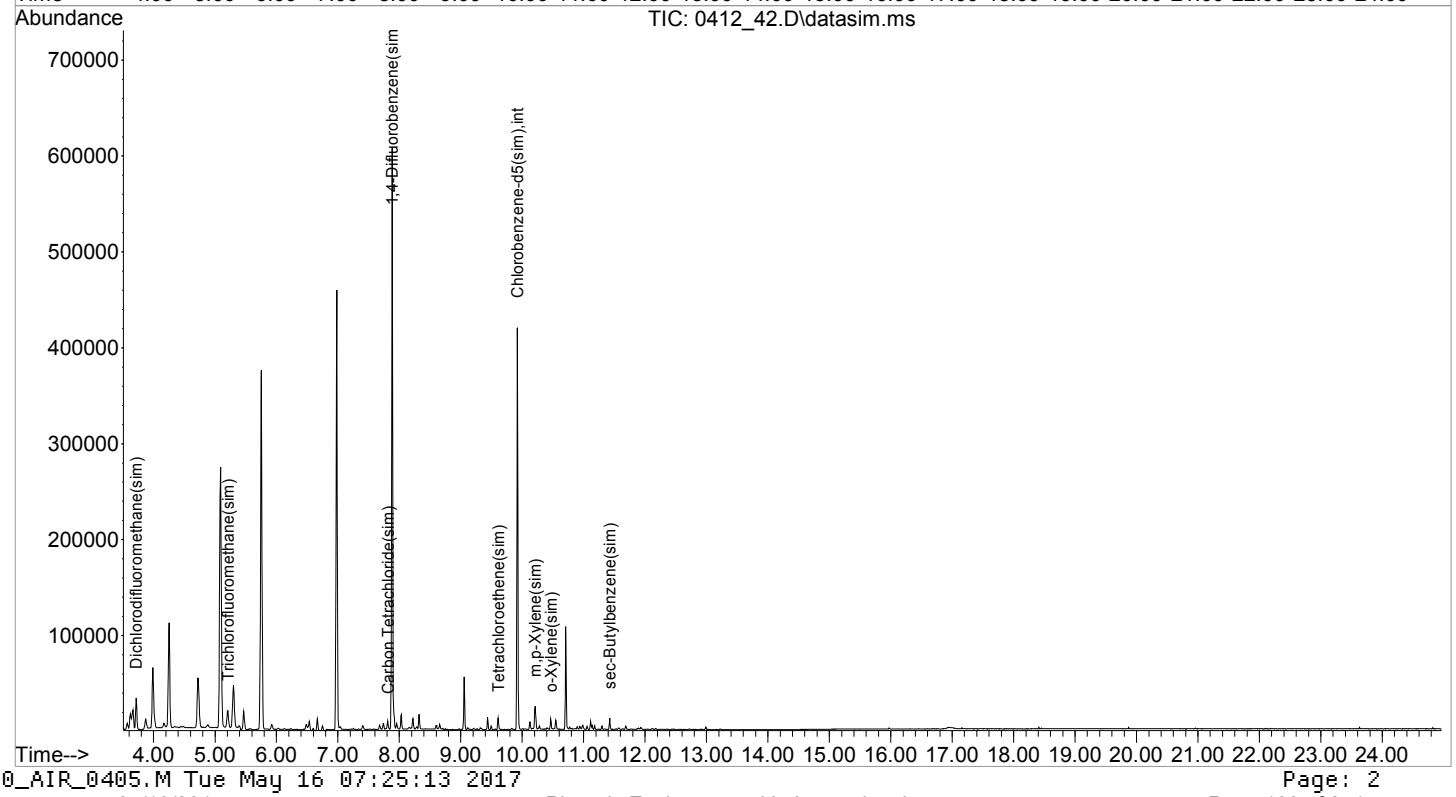
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	119785	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	329445	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	135849	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	119785	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	400626	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	143807	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	212844	11.520	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.20%				
Target Compounds							Qvalue
2) Propylene	3.651	41	11247	0.901	ppbv	#	50
3) Dichlorodifluoromethane	3.716	85	21649	0.502	ppbv	#	92
11) Ethanol	4.721	45	51817	6.405	ppbv	#	89
12) Acetone	5.086	43	280384	7.553	ppbv	#	65
13) Trichlorofluoromethane	5.208	101	13574	0.266	ppbv	#	92
14) Isopropylalcohol	5.297	45	43803	1.198	ppbv	#	67
17) Methylene Chloride	5.750	49	313993	11.874	ppbv	#	68
25) Methyl Ethyl Ketone	6.668	43	12210	0.473	ppbv	#	82
29) Ethyl acetate	6.987	61	4885	2.031	ppbv	#	1
34) Carbon Tetrachloride	7.815	117	3128	0.084	ppbv	#	69
43) Heptane	8.321	43	4771	0.391	ppbv	#	87
48) Toluene	9.055	91	29908	1.298	ppbv		94
52) Tetrachloroethene	9.611	166	3465	0.186	ppbv		95
57) m,p-Xylene	10.208	91	13086	0.569	ppbv	#	92
61) o-Xylene	10.467	91	5803	0.245	ppbv	#	94
81] Dichlorodifluoromethan...	3.718	85	27850	0.518	ppbv		95
85] Trichlorofluoromethane...	5.211	101	17254	0.260	ppbv		100
88] Carbon Tetrachloride(sim)	7.815	117	3000	0.080	ppbv	#	64
106] Tetrachloroethene(sim)	9.611	166	3465	0.188	ppbv		91
111] m,p-Xylene(sim)	10.211	91	14671	0.570	ppbv		98
114] o-Xylene(sim)	10.467	91	5803	0.252	ppbv	#	96
119] 1,2,4-Trimethylbenzene...	11.425	105	5723	0.198	ppbv	#	86
124] sec-Butylbenzene(sim)	11.423	105	5462	0.213	ppbv		76

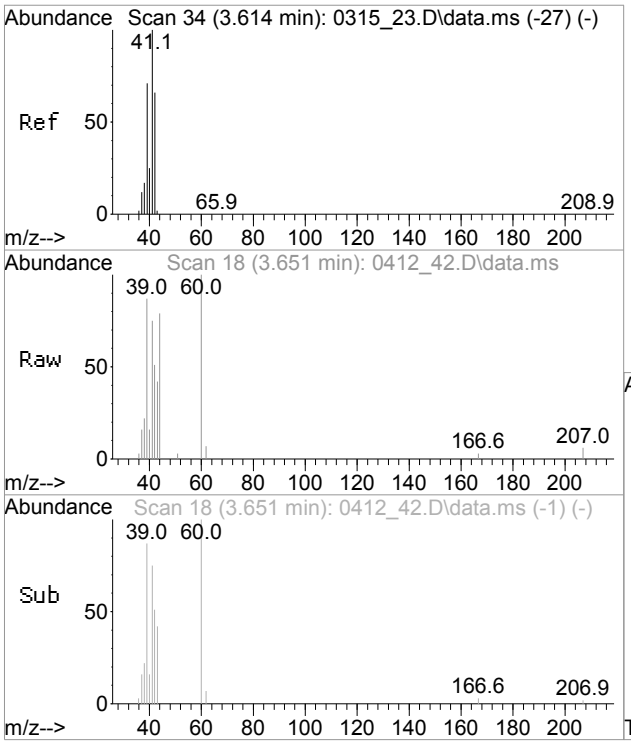
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_42.D
Acq On : 13 Apr 2017 07:55 pm
Operator : CORTEX\ms
Client ID : OA-1
Lab ID : BY03107
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:08:28 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration



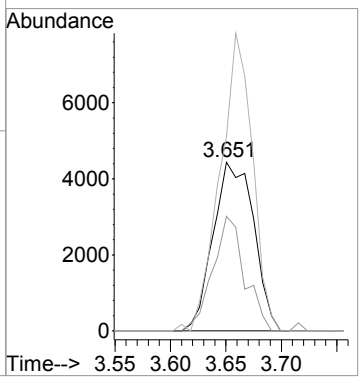


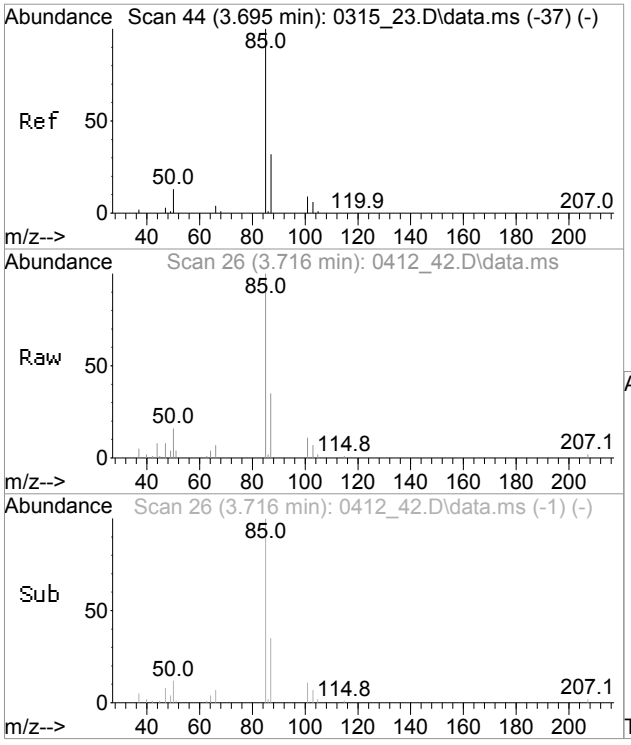


#2
Propylene
Concen: 0.90 ppbv
RT: 3.651 min Scan# 18
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 41 Resp: 11247

Ion	Ratio	Lower	Upper
41	100		
42	53.4	52.7	79.1
39	141.6	59.1	88.7#

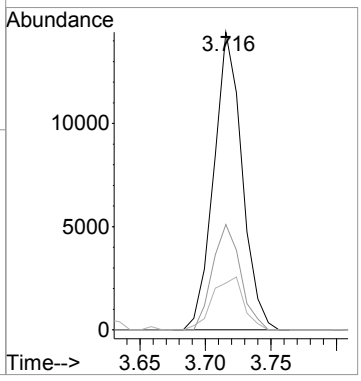


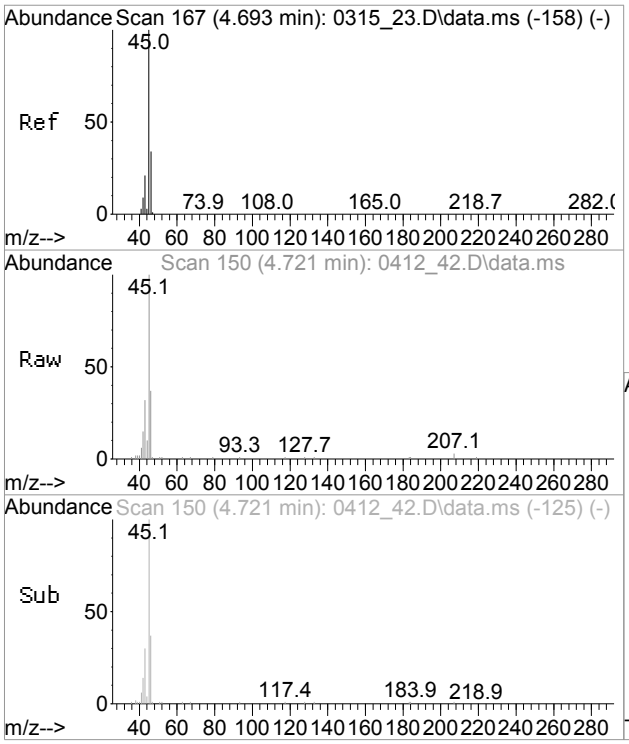


#3
Dichlorodifluoromethane
Concen: 0.50 ppbv
RT: 3.716 min Scan# 26
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 85 Resp: 21649

Ion	Ratio	Lower	Upper
85	100		
87	35.0	26.1	39.1
50	19.6	10.5	15.7#

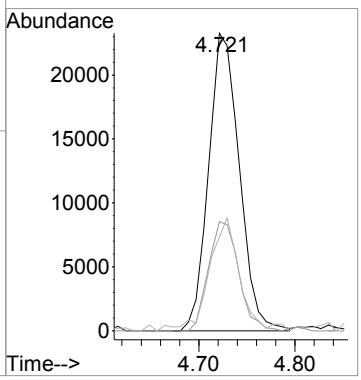


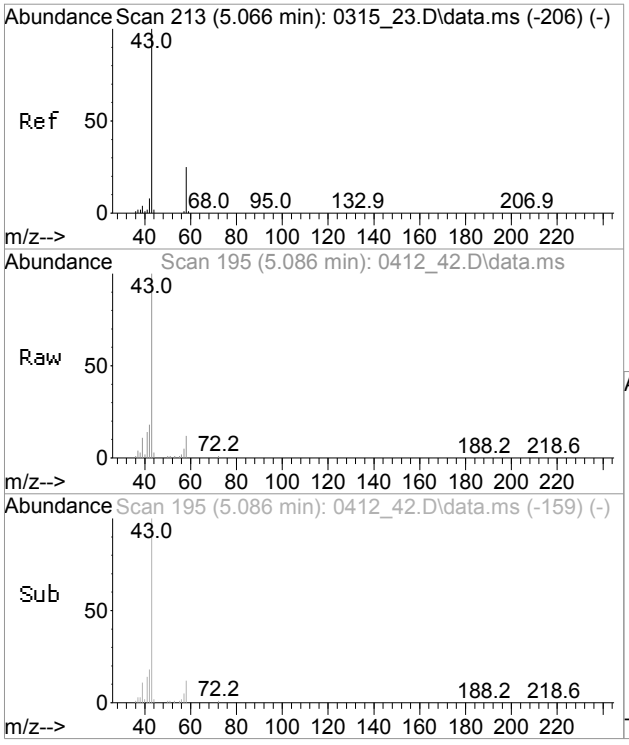


#11
Ethanol
Concen: 6.40 ppbv
RT: 4.721 min Scan# 150
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 45 Resp: 51817

Ion	Ratio	Lower	Upper
45	100		
46	35.9	28.5	42.7
43	37.4	19.7	29.5#

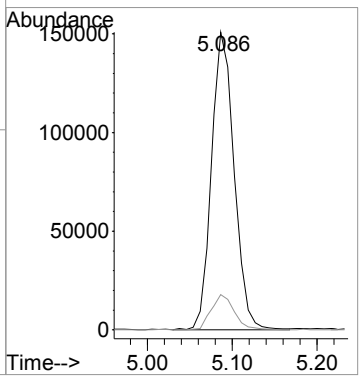


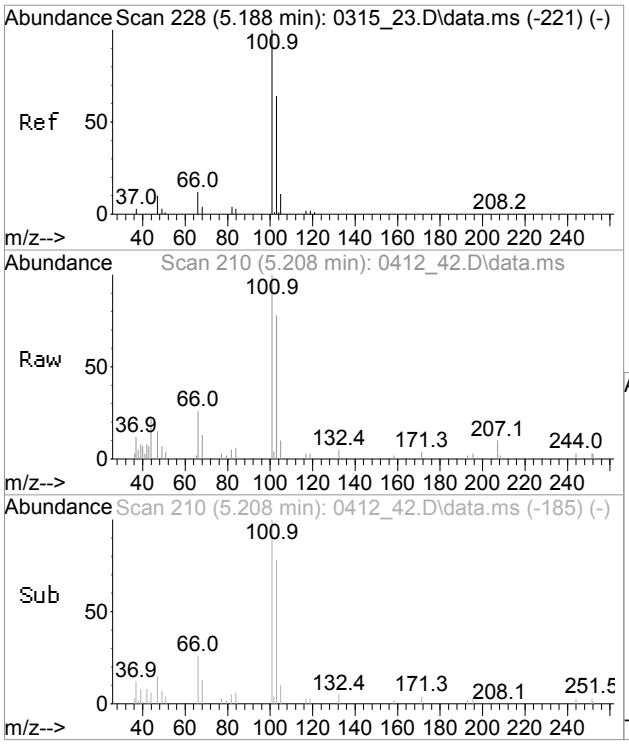


#12
Acetone
Concen: 7.55 ppbv
RT: 5.086 min Scan# 195
Delta R.T. -0.008 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 43 Resp: 280384

Ion	Ratio	Lower	Upper
43	100		
58	12.0	24.8	37.2#

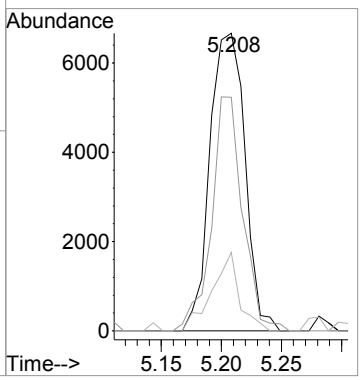


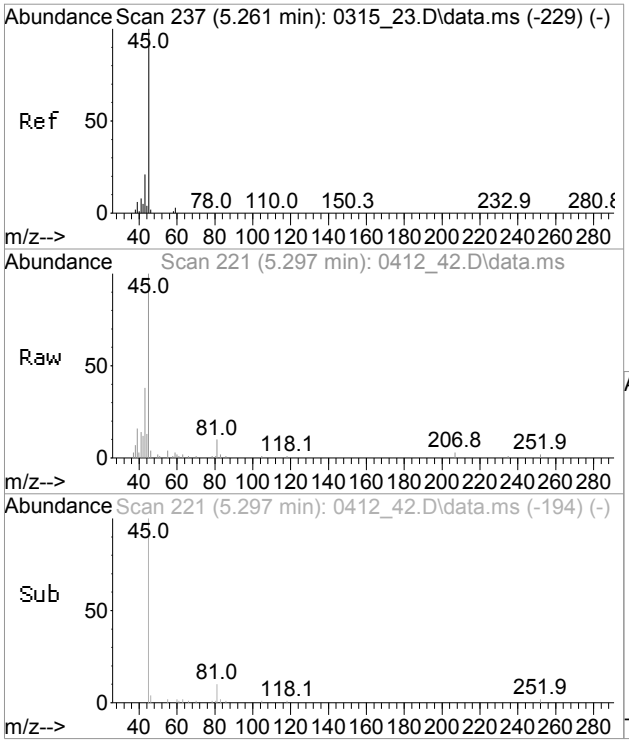


#13
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 5.208 min Scan# 210
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:101 Resp: 13574

Ion	Ratio	Lower	Upper
101	100		
103	69.6	51.8	77.8
66	20.6	11.1	16.7#

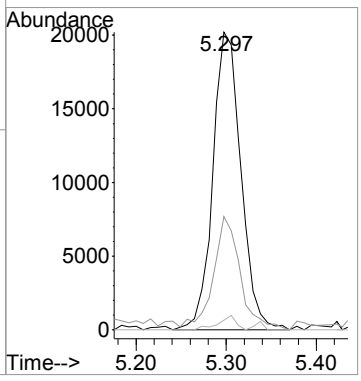


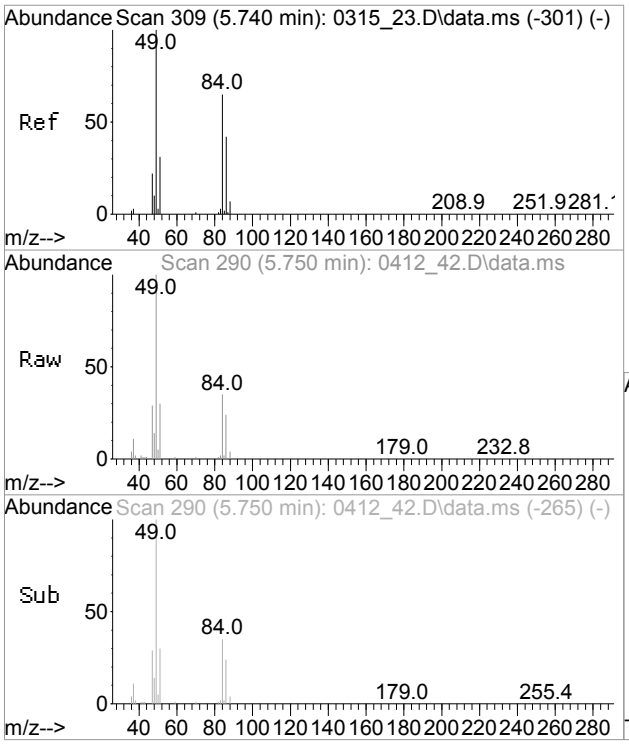


#14
Isopropylalcohol
Concen: 1.20 ppbv
RT: 5.297 min Scan# 221
Delta R.T. 0.016 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 45 Resp: 43803

Ion	Ratio	Lower	Upper
45	100		
43	36.7	15.4	23.0#
59	3.0	3.0	4.4

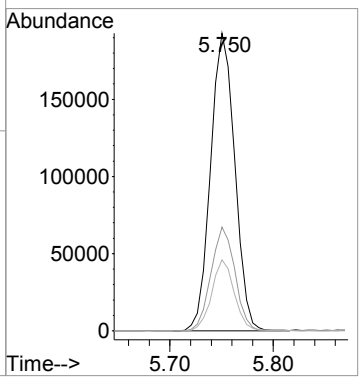


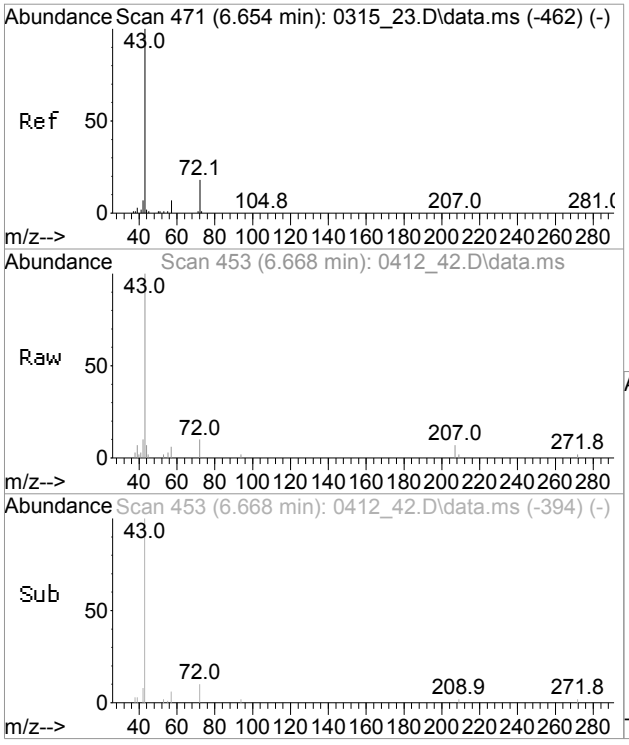


#17
Methylene Chloride
Concen: 11.87 ppbv
RT: 5.750 min Scan# 290
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 49 Resp: 313993

Ion	Ratio	Lower	Upper
49	100		
84	34.4	49.2	73.8#
86	22.2	31.5	47.3#

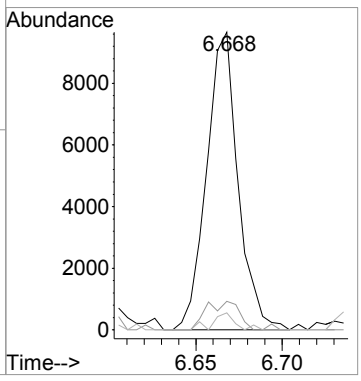


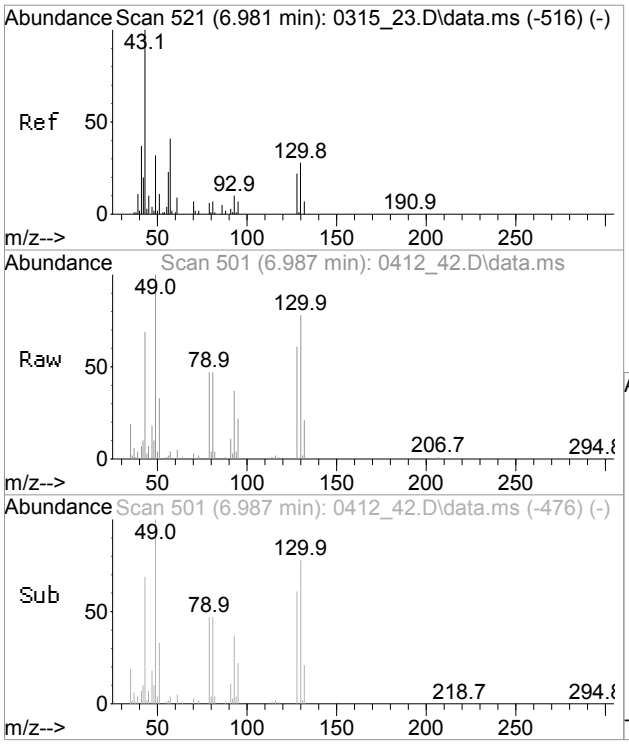


#25
Methyl Ethyl Ketone
Concen: 0.47 ppbv
RT: 6.668 min Scan# 453
Delta R.T. 0.005 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 43 Resp: 12210

Ion	Ratio	Lower	Upper
43	100		
72	9.9	15.9	23.9#
57	4.1	5.6	8.4#

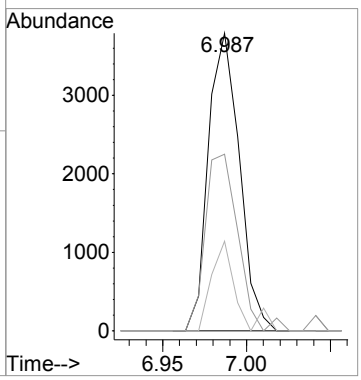


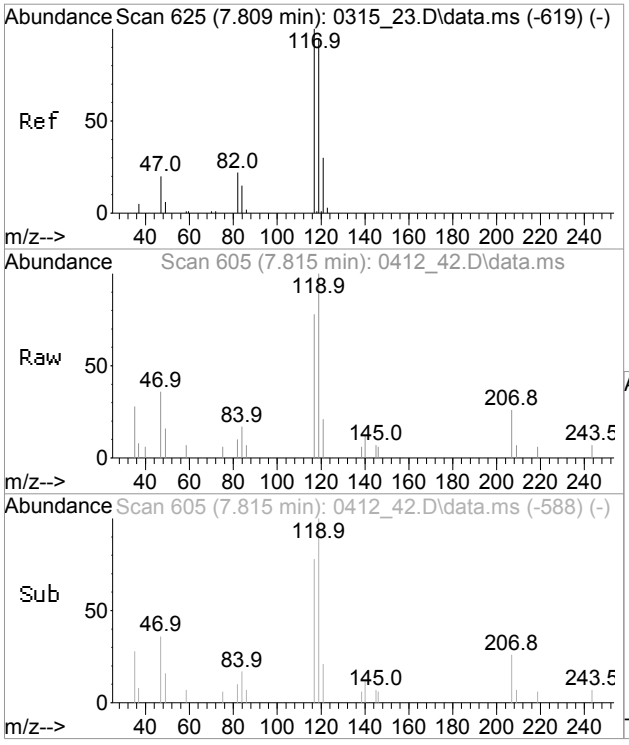


#29
Ethyl acetate
Concen: 2.03 ppbv
RT: 6.987 min Scan# 501
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 61 Resp: 4885

Ion	Ratio	Lower	Upper
61	100		
70	62.8	8.3	12.5#
88	23.8	5.8	8.6#

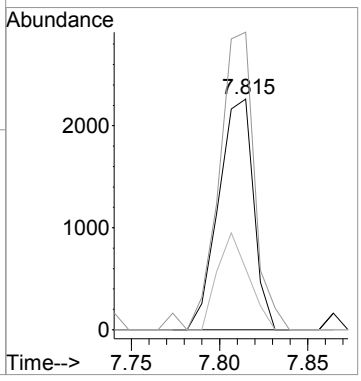


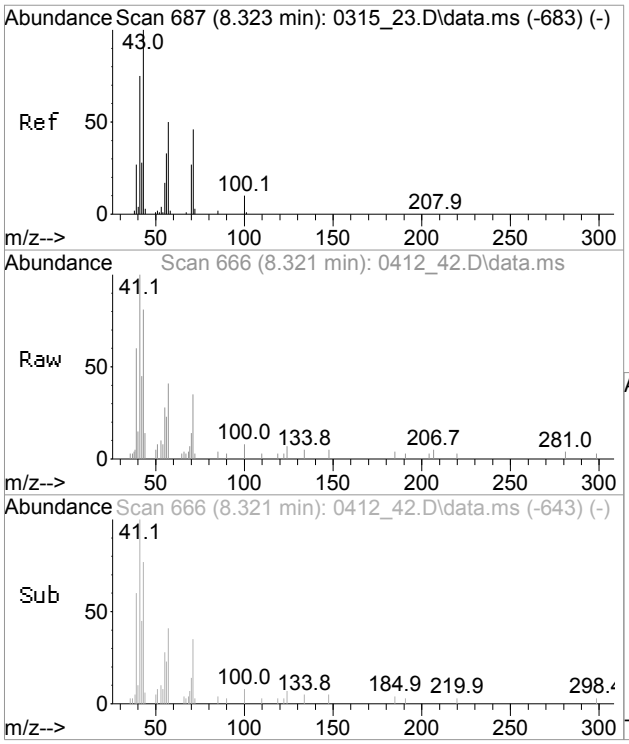


#34
Carbon Tetrachloride
Concen: Below Cal
RT: 7.815 min Scan# 605
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:117 Resp: 3128

Ion	Ratio	Lower	Upper
117	100		
119	131.6	75.9	115.9#
121	37.4	10.8	50.8

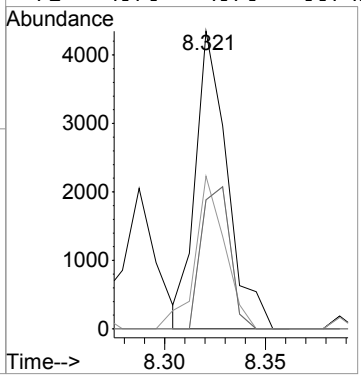


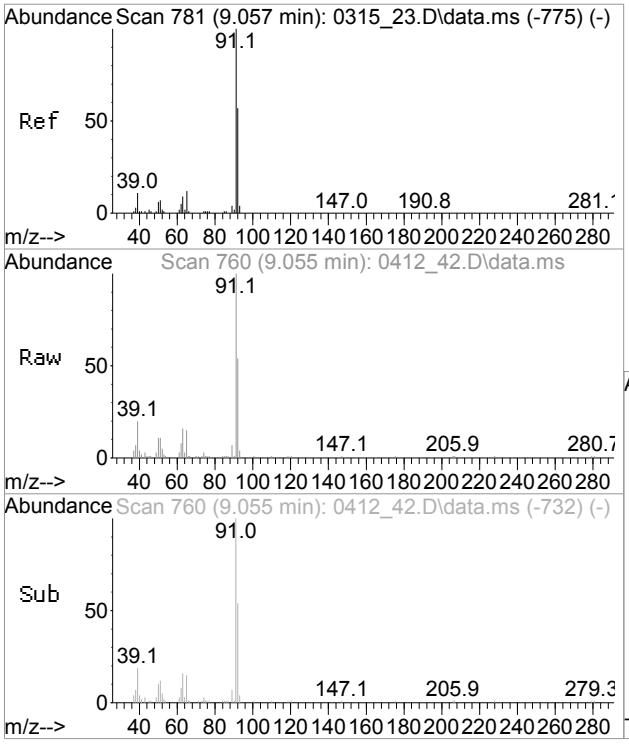


#43
Heptane
Concen: 0.39 ppbv
RT: 8.321 min Scan# 666
Delta R.T. -0.008 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 43 Resp: 4771

Ion	Ratio	Lower	Upper
43	100		
57	48.0	43.0	64.4
71	43.6	43.6	65.4#
71	43.6	43.6	65.4#

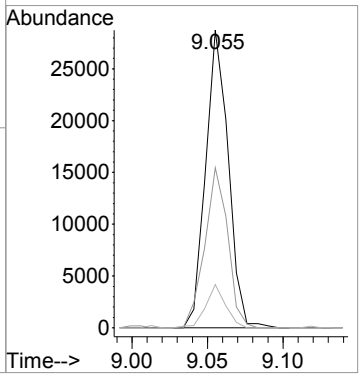


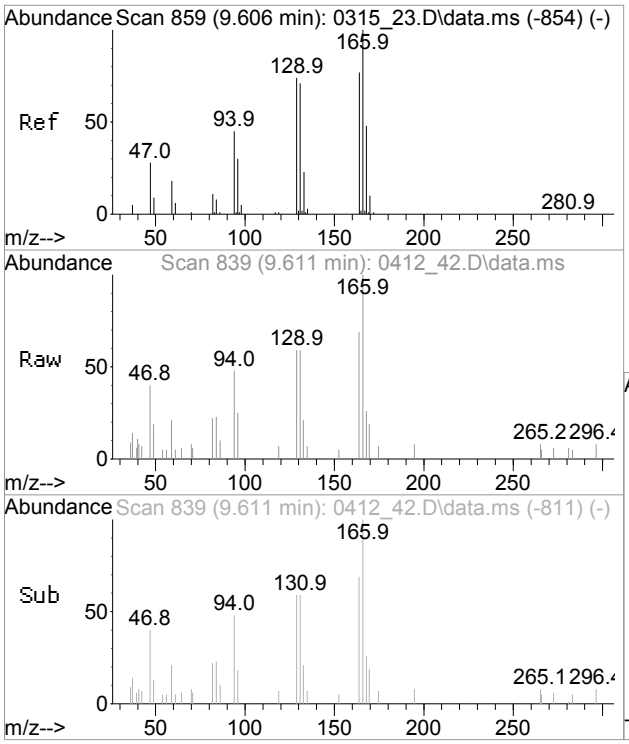


#48
Toluene
Concen: 1.30 ppbv
RT: 9.055 min Scan# 760
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 91 Resp: 29908

Ion	Ratio	Lower	Upper
91	100		
92	54.6	47.7	71.5
65	12.8	9.5	14.3

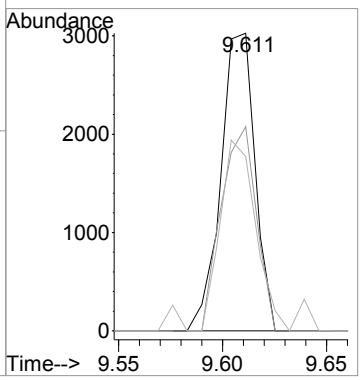


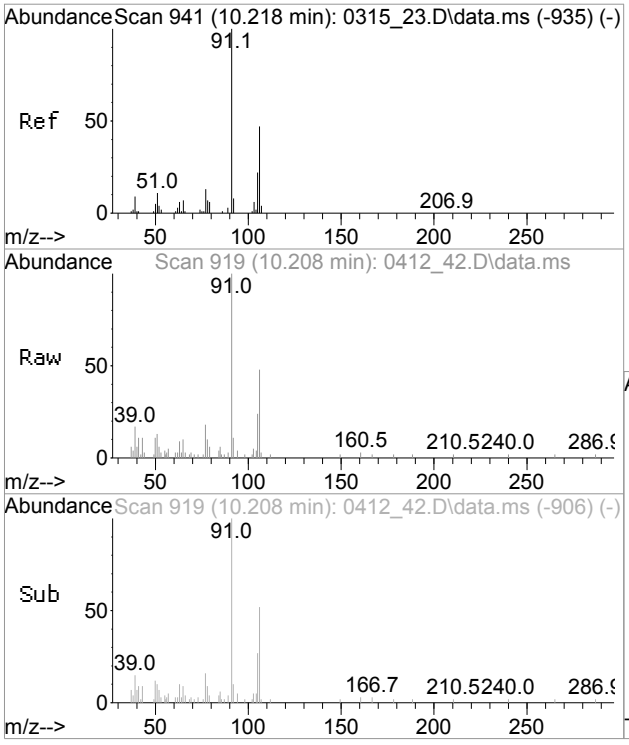


#52
Tetrachloroethene
Concen: 0.19 ppbv
RT: 9.611 min Scan# 839
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:166 Resp: 3465

Ion	Ratio	Lower	Upper
166	100		
164	70.4	62.2	93.4
129	70.4	56.6	84.8

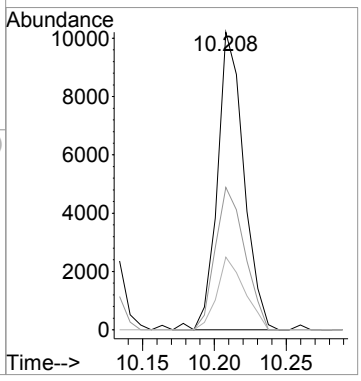


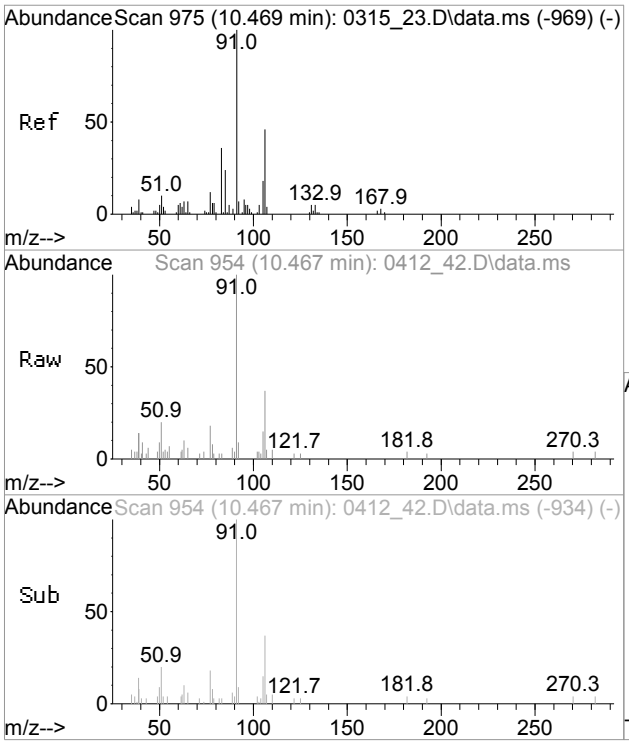


#57
m,p-Xylene
Concen: 0.57 ppbv
RT: 10.208 min Scan# 919
Delta R.T. -0.007 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 91 Resp: 13086

Ion	Ratio	Lower	Upper
91	100		
106	53.2	38.7	58.1
105	25.4	16.6	25.0#

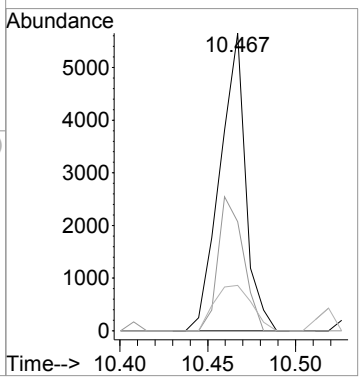


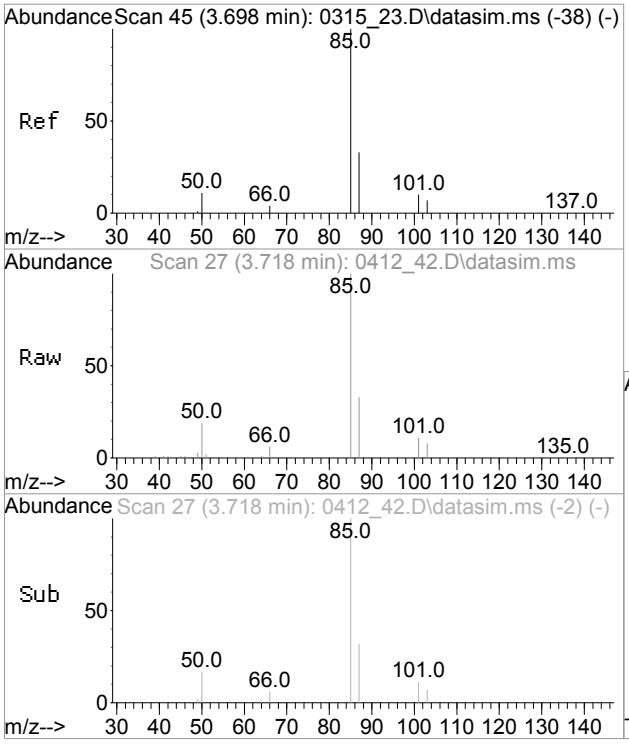


#61
o-Xylene
Concen: 0.24 ppbv
RT: 10.467 min Scan# 954
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 91 Resp: 5803

Ion	Ratio	Lower	Upper
91	100		
106	43.9	37.4	56.2
105	22.2	14.1	21.1#

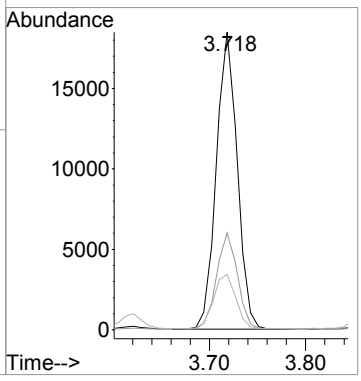


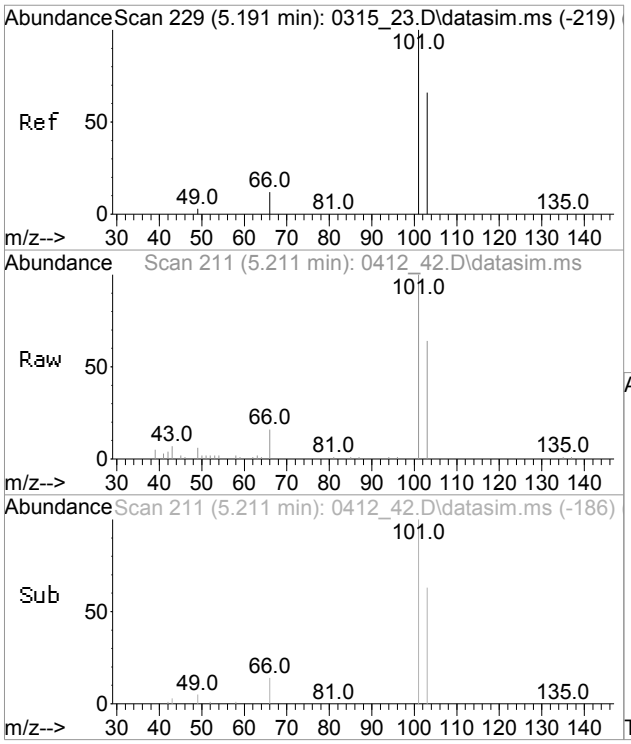


#81
Dichlorodifluoromethane(sim)
Concen: 0.52 ppbv
RT: 3.718 min Scan# 27
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 85 Resp: 27850

Ion	Ratio	Lower	Upper
85	100		
87	32.4	12.7	52.7
50	19.4	0.0	32.3

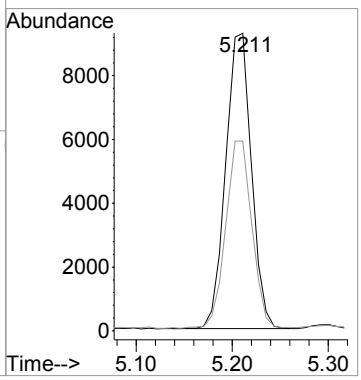


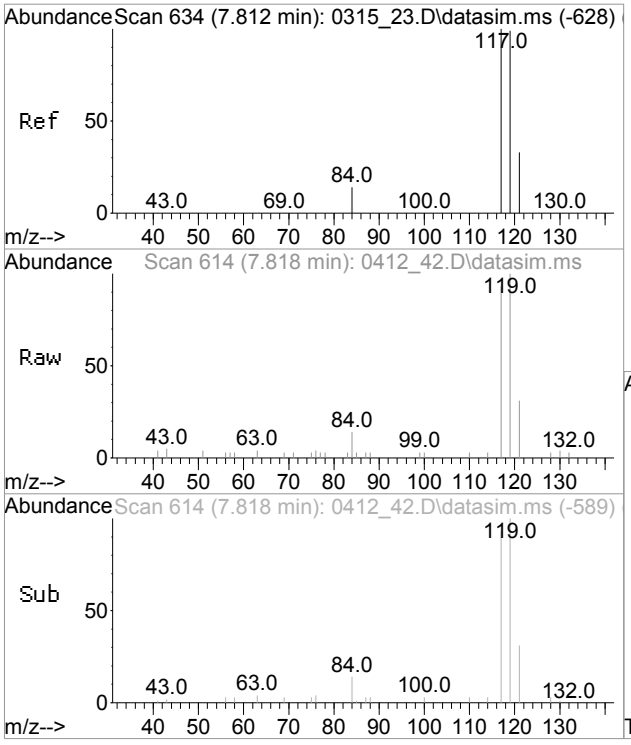


#85
Trichlorofluoromethane(sim)
Concen: 0.26 ppbv
RT: 5.211 min Scan# 211
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:101 Resp: 17254

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.0	78.0

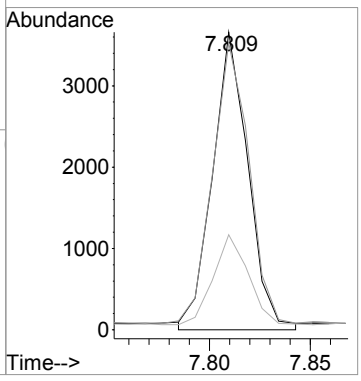


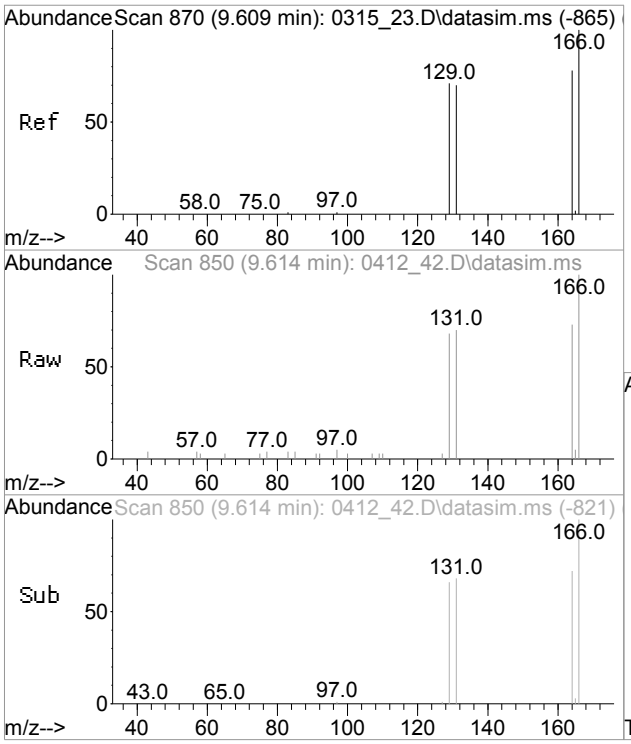


#88
Carbon Tetrachloride(sim)
Concen: 0.08 ppbv
RT: 7.815 min Scan# 614
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:117 Resp: 3000

Ion	Ratio	Lower	Upper
117	100		
119	136.6	76.7	115.1#
121	41.9	24.6	37.0#

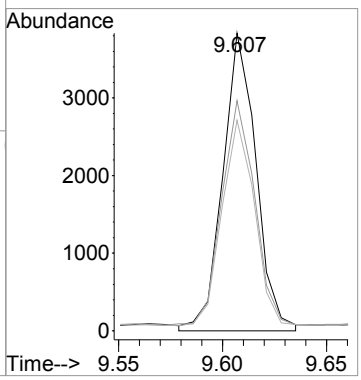


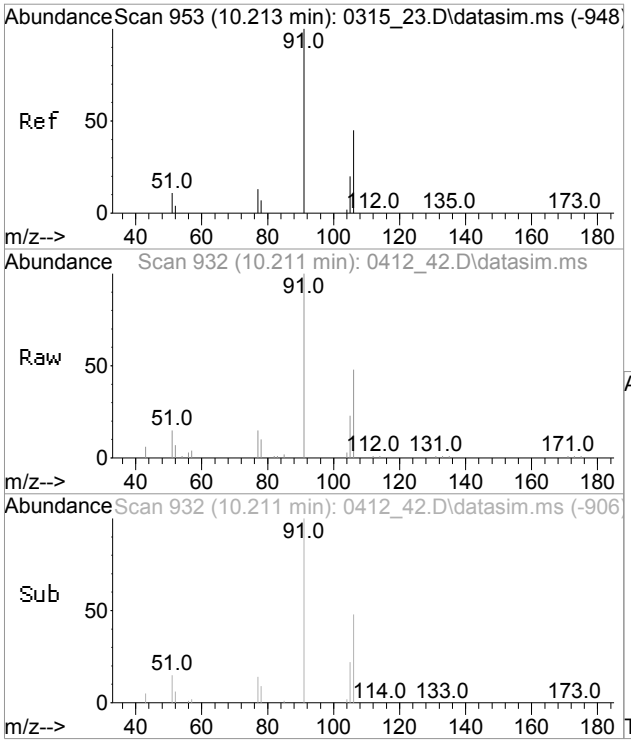


#106
Tetrachloroethene(sim)
Concen: 0.19 ppbv
RT: 9.611 min Scan# 850
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:166 Resp: 3465

Ion	Ratio	Lower	Upper
166	100		
164	64.0	57.8	97.8
129	70.4	50.7	90.7

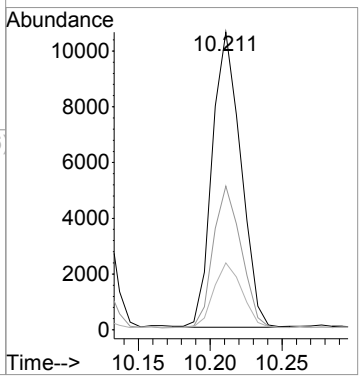


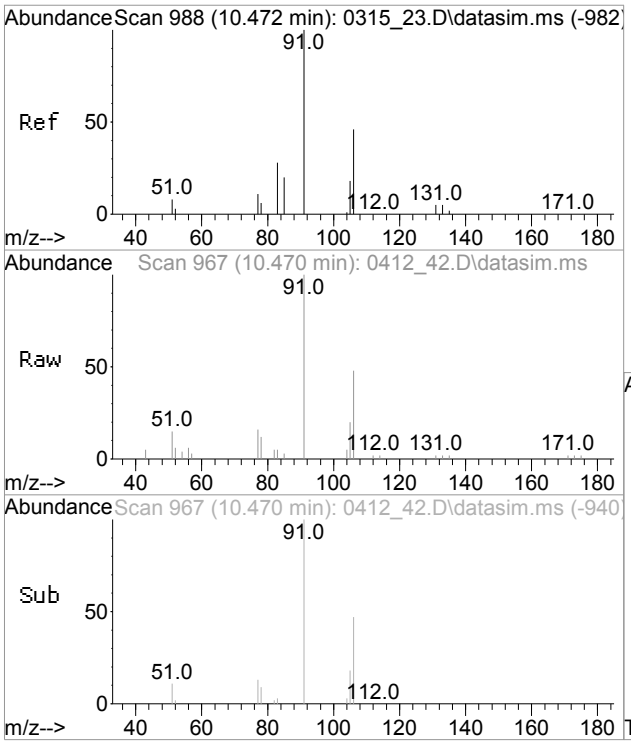


#111
m,p-Xylene(sim)
Concen: 0.57 ppbv
RT: 10.211 min Scan# 932
Delta R.T. -0.007 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 91 Resp: 14671

Ion	Ratio	Lower	Upper
91	100		
106	47.2	43.6	53.2
105	21.8	16.6	25.0

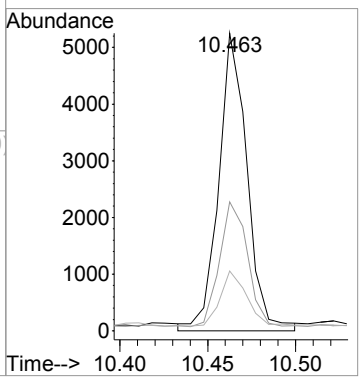


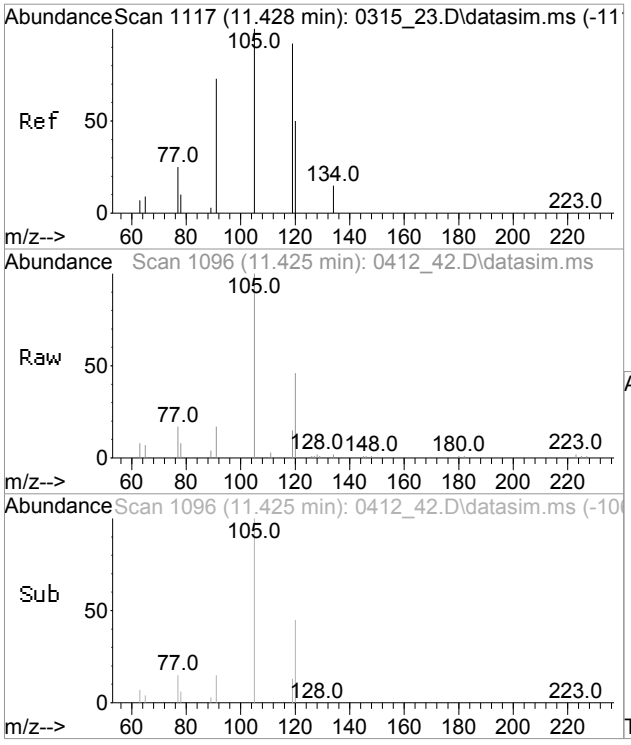


#114
o-Xylene(sim)
Concen: 0.25 ppbv
RT: 10.467 min Scan# 967
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion: 91 Resp: 5803

Ion	Ratio	Lower	Upper
91	100		
106	43.9	36.0	54.0
105	22.2	13.8	20.8#

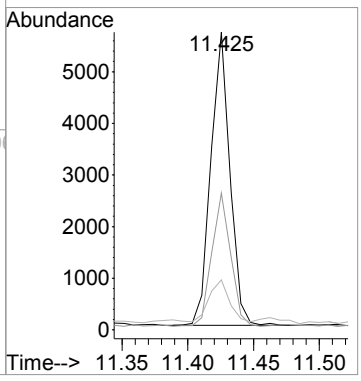


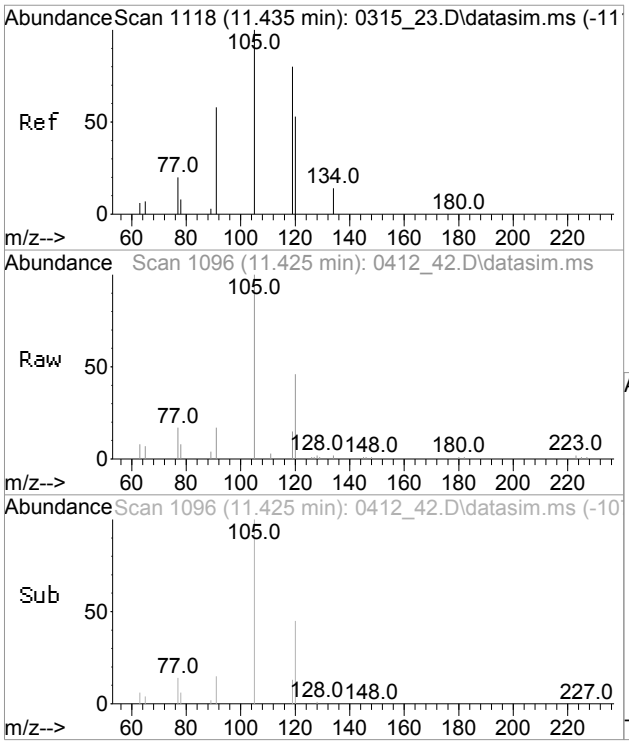


#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.20 ppbv
RT: 11.425 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:105 Resp: 5723

Ion	Ratio	Lower	Upper
105	100		
120	44.9	43.5	65.3
77	17.9	20.2	30.4#

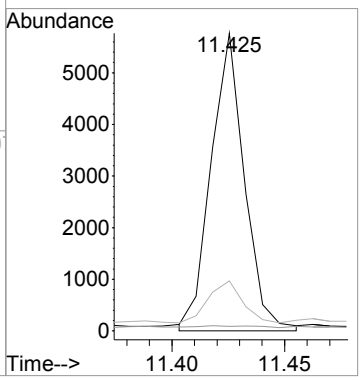




#124
sec-Butylbenzene(sim)
Concen: 0.21 ppbv
RT: 11.423 min Scan# 1096
Delta R.T. -0.007 min
Lab File: 0412_42.D
Acq: 13 Apr 2017 07:55 pm

Tgt Ion:105 Resp: 5462

Ion	Ratio	Lower	Upper
105	100		
134	0.0	0.0	35.9
77	10.4	0.0	34.1



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM20 | Calibration Date From: 04/05/17 13:15

Heated Purge (Y/N): Y | Calibration Date Thru: 04/05/17 18:16

GC Column: zb-1ms | Method File: 20_AIR_0405.M

Laboratory File Ids

RRF1 0405_03.D RRF2 0405_04.D RRF3 0405_05.D RRF4 0405_06.D RRF5 0405_07.D RRF6 0405_08.D
RRF7 0405_09.D RRF8 0405_10.D RRF9 0405_11.D RRF10 0405_12.D RRF11 0405_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
Propylene				0.921	0.975	1.051	1.041	1.180	1.124	1.046	0.999		1.042	7.85
Dichlorodifluoromethane			3.761	3.408	3.317	3.596	3.450	3.876	3.741	3.574	3.654		3.598	5.06
Chloromethane				1.455	1.186	1.234	1.278	1.400	1.235	1.112	1.065		1.246	10.65
1,2-Dichlorotetrafluoroethane			3.375	2.974	2.919	3.151	2.956	3.273	3.128	2.965	3.046		3.088	5.10
Vinyl Chloride			1.012	1.048	1.036	1.031	0.964	1.085	1.001	0.933	0.926		1.004	5.34
1,3-Butadiene				0.835	0.921	0.925	0.871	0.927	0.841	0.798	0.770		0.861	7.02
Bromomethane				1.244	0.964	0.952	0.907	1.013	0.961	0.912	0.960		0.989	10.95
Chloroethane			0.583	0.545	0.440	0.401	0.432	0.485	0.439	0.419	0.406		0.461	13.88
Ethanol				0.980	0.785	0.684	0.605	0.653	0.624	0.549	0.524		0.675	21.79
Acetone				3.413	3.160	3.186	3.105	3.229	3.081	2.875	2.744		3.099	6.72
Trichlorofluoromethane			4.372	3.964	4.305	4.379	4.086	4.590	4.332	4.027	4.217		4.252	4.67
Isopropylalcohol				3.767	3.016	3.243	2.943	3.091	2.929	2.765	2.660		3.052	11.17
Acrylonitrile				1.237	1.051	0.924	0.953	0.657	0.983	0.966	0.949		0.965	16.55
1,1-Dichloroethene			2.294	2.049	2.060	2.123	2.074	2.355	2.261	2.150	2.156		2.169	5.06
Methylene Chloride			3.537	2.692	2.144	2.108	1.870	2.069	1.920	1.784	1.744		2.208	25.95
Carbon Disulfide			2.556	2.276	2.180	2.282	2.065	2.361	2.282	2.127	2.136		2.252	6.58
Trichlorotrifluoroethane			2.481	2.344	2.323	2.456	2.251	2.483	2.346	2.239	2.313		2.360	3.95
Trans-1,2-Dichloroethene			1.823	1.750	1.632	1.623	1.579	1.767	1.709	1.644	1.669		1.688	4.70
1,1-Dichloroethane			2.064	1.935	1.496	2.026	1.522	2.135	1.751	1.706	1.576		1.801	13.64
Methyl tert-butyl ether(MTBE)			2.008	1.825	1.631	2.000	1.843	2.854	2.161	2.153	2.148		2.069	16.64
Methyl Ethyl Ketone			2.371	2.022	1.816	1.964	1.992	2.389	2.370	2.282	2.208		2.157	9.86
Cis-1,2-Dichloroethene			1.232	1.142	0.997	1.109	1.070	1.271	1.258	1.262	1.287		1.181	8.85
Hexane			0.826	0.802	0.620	0.798	0.844	1.008	0.993	0.958	0.987		0.871	14.67
Chloroform			2.059	2.042	2.012	2.148	2.039	2.284	2.187	2.050	2.093		2.101	4.21
Ethyl acetate			0.173	0.174	0.190	0.218	0.182	0.227	0.227	0.207	0.210		0.201	10.72
Tetrahydrofuran			1.148	0.740	0.628	0.715	0.742	0.914	0.933	0.916	0.921		0.851	18.60
1,2-Dichloroethane			1.861	1.602	1.650	1.714	1.734	1.918	1.879	1.796	1.838		1.777	6.10

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM20 | Calibration Date From: 04/05/17 13:15

Heated Purge (Y/N): Y | Calibration Date Thru: 04/05/17 18:16

GC Column: zb-1ms | Method File: 20_AIR_0405.M

Laboratory File Ids

RRF1 0405_03.D RRF2 0405_04.D RRF3 0405_05.D RRF4 0405_06.D RRF5 0405_07.D RRF6 0405_08.D
RRF7 0405_09.D RRF8 0405_10.D RRF9 0405_11.D RRF10 0405_12.D RRF11 0405_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
1,1,1-Trichloroethane			2.402	2.570	2.203	2.360	2.388	2.686	2.592	2.504	2.565		2.474	5.99
Benzene			2.230	1.745	1.692	1.769	1.690	1.978	1.915	1.776	1.925		1.858	9.39
Carbon Tetrachloride				3.051	2.840	3.108	2.967	3.351	3.219	3.112	3.218		3.108	5.14
Cyclohexane			0.947	0.708	0.595	0.709	0.717	0.847	0.833	0.801	0.824		0.776	13.36
1,2-dichloropropane			0.216	0.196	0.240	0.210	0.209	0.239	0.236	0.237	0.235		0.224	7.35
Bromodichloromethane			0.854	0.779	0.745	0.771	0.788	0.892	0.873	0.874	0.908		0.831	7.29
Trichloroethene			0.441	0.378	0.407	0.393	0.415	0.465	0.446	0.443	0.443		0.426	6.77
1,4-Dioxane				0.152	0.123	0.127	0.127	0.150	0.155	0.157	0.162		0.144	10.95
Heptane			0.368	0.297	0.286	0.368	0.350	0.432	0.409	0.415	0.408		0.370	14.02
cis-1,3-Dichloropropene			0.341	0.366	0.327	0.349	0.358	0.437	0.437	0.446	0.456		0.391	13.27
4-Methyl-2-pentanone(MIBK)			0.552	0.431	0.449	0.531	0.570	0.688	0.697	0.713	0.717		0.594	19.06
trans-1,3-Dichloropropene				0.333	0.280	0.354	0.365	0.443	0.455	0.472	0.483		0.398	18.78
1,1,2-Trichloroethane				0.292	0.314	0.294	0.303	0.331	0.324	0.322	0.322		0.313	4.70
Toluene			0.767	0.596	0.589	0.606	0.636	0.771	0.777	0.777	0.774		0.699	12.69
Dibromochloromethane				0.995	0.935	0.950	0.975	1.073	1.062	1.049	1.065		1.013	5.51
2-Hexanone(MBK)				0.403	0.390	0.449	0.522	0.655	0.672	0.677	0.669		0.555	23.06
1,2-Dibromoethane(EDB)			0.592	0.559	0.517	0.563	0.570	0.652	0.642	0.643	0.653		0.599	8.34
Tetrachloroethene			0.533	0.564	0.510	0.541	0.542	0.602	0.599	0.598	0.610		0.566	6.49
1,1,1,2-Tetrachloroethane				1.281	1.243	1.407	1.268	1.366	1.239	1.012	0.896		1.214	14.30
Chlorobenzene			2.038	1.487	1.716	1.740	1.647	1.741	1.615	1.325	1.188		1.611	15.59
Ethylbenzene			2.205	1.991	1.860	1.988	2.101	2.423	2.365	1.969	1.769		2.075	10.63
m,p-Xylene			1.670	1.570	1.515	1.376	1.894	2.152	1.968	1.604	1.491		1.693	15.10
Bromoform				2.583	2.220	2.518	2.414	2.580	2.350	1.958	1.758		2.298	13.15
Styrene				0.949	1.043	1.120	1.162	1.385	1.319	1.111	1.004		1.137	13.24
1,1,2,2-Tetrachloroethane			1.721	1.398	1.438	1.626	1.470	1.599	1.427	1.218	1.128		1.447	13.11
o-Xylene			1.658	1.393	1.554	1.777	1.946	2.146	1.978	1.693	1.556		1.745	13.79
Isopropylbenzene			2.200	2.241	2.248	2.465	2.508	2.703	2.544	2.118	1.875		2.322	10.95

(#) The maximum %RSD was not met for this compound

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM20 | Calibration Date From: 04/05/17 13:15

Heated Purge (Y/N): Y | Calibration Date Thru: 04/05/17 18:16

GC Column: zb-1ms | Method File: 20_AIR_0405.M

Laboratory File Ids

RRF1 0405_03.D RRF2 0405_04.D RRF3 0405_05.D RRF4 0405_06.D RRF5 0405_07.D RRF6 0405_08.D
RRF7 0405_09.D RRF8 0405_10.D RRF9 0405_11.D RRF10 0405_12.D RRF11 0405_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
4-Ethyltoluene			1.896	1.983	2.100	2.619	2.681	3.046	2.781	2.329	2.093		2.392	16.89
1,3,5-Trimethylbenzene			2.257	1.646	1.951	2.240	2.419	2.607	2.419	2.008	1.742		2.143	15.23
1,2,4-Trimethylbenzene				1.753	1.707	2.182	2.335	2.716	2.526	2.157	1.985		2.170	16.28
Benzyl chloride				1.313	1.593	1.761	2.106	2.387	2.258	1.973	1.815		1.901	18.64
1,3-Dichlorobenzene			1.715	1.721	1.760	1.943	2.073	2.194	2.040	1.657	1.458		1.840	12.83
1,4-Dichlorobenzene			1.152	1.501	1.725	1.967	1.965	2.164	1.934	1.636	1.469		1.724	18.40
sec-Butylbenzene			2.405	2.340	2.509	3.008	3.116	3.362	3.190	2.636	2.350		2.769	14.47
4-Isopropyltoluene			2.321	2.015	2.328	2.756	3.024	3.408	3.173	2.611	2.400		2.671	17.13
1,2-Dichlorobenzene			2.020	1.522	1.770	2.028	1.895	2.111	1.939	1.581	1.397		1.807	14.01
n-Butylbenzene				1.531	1.619	2.092	2.410	2.715	2.675	2.230	1.990		2.158	20.44
1,2,4-Trichlorobenzene				0.647	0.687	0.893	1.190	1.366	1.514	1.317	1.238		1.107	29.27
Hexachlorobutadiene			1.878	1.703	1.869	1.889	1.936	1.947	1.802	1.453	1.283		1.751	13.30
Dichlorodifluoromethane(sim)	4.987	4.627	4.404	4.223	4.128	4.420	4.274	4.827					4.486	6.74
1,2-Dichlorotetrafluoroethane(sim)	3.949	3.386	3.375	2.975	2.919	3.151	2.956	3.273					3.248	10.44
Vinyl Chloride(sim)	1.515	1.364	1.204	1.222	1.125	1.220	1.152	1.282					1.261	10.04
Bromomethane(sim)	1.416	1.425	1.517	1.237	0.964	0.952	0.907	1.013					1.179	21.11
Trichlorofluoromethane(sim)	6.231	5.873	5.555	5.265	5.070	5.444	5.182	5.745					5.546	7.03
1,2-Dichloroethane(sim)	1.997	1.972	1.861	1.602	1.660	1.714	1.734	1.918					1.807	8.27
1,1,1-Trichloroethane(sim)	3.620	3.233	3.123	3.010	2.858	3.116	3.031	3.421					3.176	7.68
Carbon Tetrachloride(sim)	3.562	2.927	3.359	3.051	2.840	3.112	2.967	3.351					3.146	8.01
1,1-Dichloroethene(sim)	2.845	2.783	2.598	2.467	2.369	2.568	2.479	2.803					2.614	6.78
Carbon Disulfide(sim)	2.401	2.798	2.556	2.276	2.180	2.285	2.064	2.361					2.365	9.65
Trichlorotrifluoroethane(sim)	3.512	3.241	3.130	2.902	2.820	2.995	2.830	3.137					3.071	7.65
Trans-1,2-Dichloroethene(sim)	2.350	2.101	1.848	1.762	1.632	1.623	1.579	1.767					1.833	14.55
1,1-Dichloroethane(sim)	2.423	2.756	2.352	2.295	1.845	2.290	1.846	2.477					2.285	13.53
Cis-1,2-Dichloroethene(sim)	1.354	0.937	1.232	1.142	0.997	1.109	1.070	1.271					1.139	12.37
Chloroform(sim)	2.998	2.793	2.636	2.567	2.442	2.688	2.568	2.867					2.695	6.75

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM20 | Calibration Date From: 04/05/17 13:15

Heated Purge (Y/N): Y | Calibration Date Thru: 04/05/17 18:16

GC Column: zb-1ms | Method File: 20_AIR_0405.M

Laboratory File Ids

RRF1 0405_03.D RRF2 0405_04.D RRF3 0405_05.D RRF4 0405_06.D RRF5 0405_07.D RRF6 0405_08.D
RRF7 0405_09.D RRF8 0405_10.D RRF9 0405_11.D RRF10 0405_12.D RRF11 0405_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
Benzene(sim)	2.513	2.273	2.230	1.745	1.692	1.769	1.690	1.978					1.986	15.91
1,2-dichloropropane(sim)	0.322	0.167	0.182	0.165	0.206	0.178	0.174	0.200					0.199	25.90
Bromodichloromethane(sim)	0.617	0.572	0.548	0.535	0.515	0.534	0.523						0.549	6.39
Trichloroethene(sim)	0.443	0.346	0.370	0.334	0.350	0.333	0.346	0.390					0.364	10.22
1,4-Dioxane(sim)	0.156	0.128	0.120	0.119	0.111	0.118	0.118						0.124	11.88
cis-1,3-Dichloropropene(sim)	0.322	0.233	0.286	0.308	0.280	0.296	0.297						0.289	9.77
1,1,2-Trichloroethane(sim)	0.409	0.372	0.324	0.326	0.315	0.328	0.318	0.355					0.343	9.64
Dibromochloromethane(sim)	0.967	0.840	0.750	0.837	0.803	0.806	0.812	0.899					0.839	7.93
1,2-Dibromoethane(EDB)(sim)	0.648	0.599	0.604	0.577	0.578	0.612	0.605	0.697					0.615	6.49
Tetrachloroethene(sim)	0.385	0.457	0.448	0.475	0.449	0.459	0.451	0.505	0.501				0.459	7.64
Bromoform(sim)	3.170	2.260	2.331	2.481	2.160	2.385	2.296						2.441	13.80
Chlorobenzene(sim)	2.531	2.353	2.141	2.067	1.906	1.979	1.894	1.990					2.108	10.75
Ethylbenzene(sim)	2.463	1.977	2.100	1.913	1.810	1.889	1.998	2.279					2.054	10.66
m,p-Xylene(sim)	1.762	1.684	1.594	1.599	1.601	1.870	1.995	2.217					1.790	12.56
Styrene(sim)	1.399	0.850	0.982	0.912	1.015	1.064	1.105						1.047	16.99
1,1,2,2-Tetrachloroethane(sim)	2.047	1.950	1.857	1.769	1.746	1.849	1.750						1.852	6.09
o-Xylene(sim)	1.721	1.524	1.579	1.339	1.513	1.689	1.851						1.602	10.44
Isopropylbenzene(sim)	2.779	2.507	2.442	2.373	2.345	2.518	2.546	2.774					2.536	6.48
4-Ethyltoluene(sim)	2.321	2.049	1.942	1.996	2.189	2.583	2.766	3.075					2.365	17.22
1,3,5-Trimethylbenzene(sim)	1.985	1.778	2.149	1.582	1.898	2.128	2.301	2.451					2.034	13.88
1,2,4-Trimethylbenzene(sim)	1.833	1.665	1.654	1.653	1.839	2.250	2.407	2.747					2.006	20.56
Benzyl chloride(sim)	1.412	1.304	1.314	1.342	1.662	1.919	2.172	2.501					1.703	26.53
1,3-Dichlorobenzene(sim)	2.121	1.189	1.633	1.653	1.713	1.846	1.972	2.063					1.774	16.89
1,4-Dichlorobenzene(sim)	1.687	1.598	1.689	1.848	2.117	2.415	2.445						1.971	18.03
sec-Butylbenzene(sim)	1.898	1.320	1.635	1.684	1.661	2.073	2.219						1.784	16.93
4-Isopropyltoluene(sim)	2.307	2.221	2.115	2.147	2.359	2.805	3.008						2.423	14.27
1,2-Dichlorobenzene(sim)	1.474	1.684	1.929	1.436	1.723	1.927	1.801	1.985					1.745	11.87

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM20 | Calibration Date From: 04/05/17 13:15

Heated Purge (Y/N): Y | Calibration Date Thru: 04/05/17 18:16

GC Column: zb-1ms | Method File: 20_AIR_0405.M

Laboratory File Ids

RRF1 0405_03.D RRF2 0405_04.D RRF3 0405_05.D RRF4 0405_06.D RRF5 0405_07.D RRF6 0405_08.D
RRF7 0405_09.D RRF8 0405_10.D RRF9 0405_11.D RRF10 0405_12.D RRF11 0405_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
n-Butylbenzene(sim)	1.680	1.570	1.627	1.688	1.834	2.206	2.551	2.811					1.996	23.61
1,2,4-Trichlorobenzene(sim)	0.884	0.919	0.718	0.640	0.669	0.842	1.131	1.285					0.886	25.53
Hexachlorobutadiene(sim)	2.418	1.739	1.788	1.627	1.816	1.788	1.841	1.829					1.856	12.78
% Bromofluorobenzene			1.474	1.489	1.459	1.507	1.475	1.429	1.314	1.134	0.958		1.360	14.10

(#) The maximum %RSD was not met for this compound

Response Factor Report Chem 20

Method Path : H:\AIR2017\CHEM20\METHODS\
Method File : 20_AIR_0405.M
Title : VOA Standards for 5 point calibration
Last Update : Thu Apr 06 08:58:57 2017
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
.035=0405_03.D 0.05=0405_04.D 0.10=0405_05.D 0.2 =0405_06.D 0.5 =0405_07.D 1.0 =0405_08.D 2.5 =0405_09.D 5.0 =0405_10.D
10 =0405_11.D 25 =0405_12.D 40 =0405_13.D

	Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	Avg	%RSD
1)	Int Bromochloromethane	----------ISTD----------												
2)	Propylene			0.921	0.975	1.051	1.041	1.180	1.124	1.046	0.999	1.042		7.85
3)	Dichlorodifluo...	3.761	3.408	3.317	3.596	3.450	3.876	3.741	3.574	3.654	3.598			5.06
4)	Chloromethane			1.455	1.186	1.234	1.278	1.400	1.235	1.112	1.065	1.246		10.65
5)	1,2-Dichlorote...	3.375	2.974	2.919	3.151	2.956	3.273	3.128	2.965	3.046	3.088			5.10
6)	Vinyl Chloride	1.012	1.048	1.036	1.031	0.964	1.085	1.001	0.933	0.926	1.004			5.34
7)	1,3-Butadiene			0.835	0.921	0.925	0.871	0.927	0.841	0.798	0.770	0.861		7.02
8)	Bromomethane			1.244	0.964	0.952	0.907	1.013	0.961	0.912	0.960	0.989		10.95
9)	Chloroethane	0.583	0.545	0.440	0.401	0.432	0.485	0.439	0.419	0.406	0.461			13.88
11)	Ethanol			0.980	0.785	0.684	0.605	0.653	0.624	0.549	0.524	0.675		21.79
12)	Acetone			3.413	3.160	3.186	3.105	3.229	3.081	2.875	2.744	3.099		6.72
13)	Trichlorofluor...	4.372	3.964	4.305	4.379	4.086	4.590	4.332	4.027	4.217	4.252			4.67
14)	Isopropylalcohol			3.767	3.016	3.243	2.943	3.091	2.929	2.765	2.660	3.052		11.17
15)	Acrylonitrile			1.237	1.051	0.924	0.953	0.657	0.983	0.966	0.949	0.965		16.55
16)	1,1-Dichloroet...	2.294	2.049	2.060	2.123	2.074	2.355	2.261	2.150	2.156	2.169			5.06
17)	Methylene Chlo...	3.537	2.692	2.144	2.108	1.870	2.069	1.920	1.784	1.744	2.208			25.95
20)	Carbon Disulfide	2.556	2.276	2.180	2.282	2.065	2.361	2.282	2.127	2.136	2.252			6.58
21)	Trichlorotrifl...	2.481	2.344	2.323	2.456	2.251	2.483	2.346	2.239	2.313	2.360			3.95
22)	Trans-1,2-Dich...	1.823	1.750	1.632	1.623	1.579	1.767	1.709	1.644	1.669	1.688			4.70
23)	1,1-Dichloroet...	2.064	1.935	1.496	2.026	1.522	2.135	1.751	1.706	1.576	1.801			13.64
24)	Methyl tert-bu...	2.008	1.825	1.631	2.000	1.843	2.854	2.161	2.153	2.148	2.069			16.64
25)	Methyl Ethyl K...	2.371	2.022	1.816	1.964	1.992	2.389	2.370	2.282	2.208	2.157			9.86
26)	Cis-1,2-Dichlo...	1.232	1.142	0.997	1.109	1.070	1.271	1.258	1.262	1.287	1.181			8.85
27)	Hexane	0.826	0.802	0.620	0.798	0.844	1.008	0.993	0.958	0.987	0.871			14.67
28)	Chloroform	2.059	2.042	2.012	2.148	2.039	2.284	2.187	2.050	2.093	2.101			4.21
29)	Ethyl acetate	0.173	0.174	0.190	0.218	0.182	0.227	0.227	0.207	0.210	0.201			10.72
30)	Tetrahydrofuran	1.148	0.740	0.628	0.715	0.742	0.914	0.933	0.916	0.921	0.851			18.60
31)	1,2-Dichloroet...	1.861	1.602	1.650	1.714	1.734	1.918	1.879	1.796	1.838	1.777			6.10
32)	1,1,1-Trichlor...	2.402	2.570	2.203	2.360	2.388	2.686	2.592	2.504	2.565	2.474			5.99
33)	Benzene	2.230	1.745	1.692	1.769	1.690	1.978	1.915	1.776	1.925	1.858			9.39
34)	Carbon Tetrach...			3.051	2.840	3.108	2.967	3.351	3.219	3.112	3.218	3.108		5.14
35)	Cyclohexane	0.947	0.708	0.595	0.709	0.717	0.847	0.833	0.801	0.824	0.776			13.36
36)	Int 1,4-Difluorobenzene	----------ISTD----------												
37)	1,2-dichloropr...	0.216	0.196	0.240	0.210	0.209	0.239	0.236	0.237	0.235	0.224			7.35
38)	Bromodichlorom...	0.854	0.779	0.745	0.771	0.788	0.892	0.873	0.874	0.908	0.831			7.29
39)	Trichloroethene	0.441	0.378	0.407	0.393	0.415	0.465	0.446	0.443	0.443	0.426			6.77
41)	1,4-Dioxane			0.152	0.123	0.127	0.127	0.150	0.155	0.157	0.162	0.144		10.95
43)	Heptane	0.368	0.297	0.286	0.368	0.350	0.432	0.409	0.415	0.408	0.370			14.02
44)	cis-1,3-Dichlo...	0.341	0.366	0.327	0.349	0.358	0.437	0.437	0.446	0.456	0.391			13.27

Method Path : H:\AIR2017\CHEM20\METHODS\
Method File : 20_AIR_0405.M
Title : VOA Standards for 5 point calibration

45)	4-Methyl-2-pen...		0.552	0.431	0.449	0.531	0.570	0.688	0.697	0.713	0.717	0.594	19.06
46)	trans-1,3-Dich...			0.333	0.280	0.354	0.365	0.443	0.455	0.472	0.483	0.398	18.78
47)	1,1,2-Trichlor...			0.292	0.314	0.294	0.303	0.331	0.324	0.322	0.322	0.313	4.70
48)	Toluene		0.767	0.596	0.589	0.606	0.636	0.771	0.777	0.777	0.774	0.699	12.69
49)	Dibromochlorom...			0.995	0.935	0.950	0.975	1.073	1.062	1.049	1.065	1.013	5.51
50)	2-Hexanone(MBK)			0.403	0.390	0.449	0.522	0.655	0.672	0.677	0.669	0.555	23.06
51)	1,2-Dibromoeth...		0.592	0.559	0.517	0.563	0.570	0.652	0.642	0.643	0.653	0.599	8.34
52)	Tetrachloroethene		0.533	0.564	0.510	0.541	0.542	0.602	0.599	0.598	0.610	0.566	6.49
53)	Int Chlorobenzene-d5	----------ISTD----------											
54)	1,1,1,2-Tetrac...			1.281	1.243	1.407	1.268	1.366	1.239	1.012	0.896	1.214	14.30
55)	Chlorobenzene		2.038	1.487	1.716	1.740	1.647	1.741	1.615	1.325	1.188	1.611	15.59
56)	Ethylbenzene		2.205	1.991	1.860	1.988	2.101	2.423	2.365	1.969	1.769	2.075	10.63
57)	m,p-Xylene		1.670	1.570	1.515	1.376	1.894	2.152	1.968	1.604	1.491	1.693	15.10
58)	Bromoform			2.583	2.220	2.518	2.414	2.580	2.350	1.958	1.758	2.298	13.15
59)	Styrene			0.949	1.043	1.120	1.162	1.385	1.319	1.111	1.004	1.137	13.24
60)	1,1,2,2-Tetrac...		1.721	1.398	1.438	1.626	1.470	1.599	1.427	1.218	1.128	1.447	13.11
61)	o-Xylene		1.658	1.393	1.554	1.777	1.946	2.146	1.978	1.693	1.556	1.745	13.79
62)	Surr% Bromofluorob...		1.474	1.489	1.459	1.507	1.475	1.429	1.314	1.134	0.958	1.360	14.10
64)	Isopropylbenzene		2.200	2.241	2.248	2.465	2.508	2.703	2.544	2.118	1.875	2.322	10.95
66)	4-Ethyltoluene		1.896	1.983	2.100	2.619	2.681	3.046	2.781	2.329	2.093	2.392	16.89
67)	1,3,5-Trimethy...		2.257	1.646	1.951	2.240	2.419	2.607	2.419	2.008	1.742	2.143	15.23
68)	1,2,4-Trimethy...			1.753	1.707	2.182	2.335	2.716	2.526	2.157	1.985	2.170	16.28
70)	Benzyl chloride			1.313	1.593	1.761	2.106	2.387	2.258	1.973	1.815	1.901	18.64
71)	1,3-Dichlorobe...		1.715	1.721	1.760	1.943	2.073	2.194	2.040	1.657	1.458	1.840	12.83
72)	1,4-Dichlorobe...		1.152	1.501	1.725	1.967	1.965	2.164	1.934	1.636	1.469	1.724	18.40
73)	sec-Butylbenzene		2.405	2.340	2.509	3.008	3.116	3.362	3.190	2.636	2.350	2.769	14.47
74)	4-Isopropyltol...		2.321	2.015	2.328	2.756	3.024	3.408	3.173	2.611	2.400	2.671	17.13
75)	1,2-Dichlorobe...		2.020	1.522	1.770	2.028	1.895	2.111	1.939	1.581	1.397	1.807	14.01
76)	n-Butylbenzene			1.531	1.619	2.092	2.410	2.715	2.675	2.230	1.990	2.158	20.44
77)	1,2,4-Trichlor...			0.647	0.687	0.893	1.190	1.366	1.514	1.317	1.238	1.107	29.27
79)	Hexachlorobuta...		1.878	1.703	1.869	1.889	1.936	1.947	1.802	1.453	1.283	1.751	13.30
80)	int Bromochloromethane...	----------ISTD----------											
81)	Dichlorodifluo...	4.987	4.627	4.404	4.223	4.128	4.420	4.274	4.827			4.486	6.74
82)	1,2-Dichlorote...	3.949	3.386	3.375	2.975	2.919	3.151	2.956	3.273			3.248	10.44
83)	Vinyl Chloride...	1.515	1.364	1.204	1.222	1.125	1.220	1.152	1.282			1.261	10.04
84)	Bromomethane(sim)	1.416	1.425	1.517	1.237	0.964	0.952	0.907	1.013			1.179	21.11
85)	Trichlorofluor...	6.231	5.873	5.555	5.265	5.070	5.444	5.182	5.745			5.546	7.03
86)	1,2-Dichloroet...	1.997	1.972	1.861	1.602	1.660	1.714	1.734	1.918			1.807	8.27
87)	1,1,1-Trichlor...	3.620	3.233	3.123	3.010	2.858	3.116	3.031	3.421			3.176	7.68
88)	Carbon Tetrach...	3.562	2.927	3.359	3.051	2.840	3.112	2.967	3.351			3.146	8.01
89)	1,1-Dichloroet...	2.845	2.783	2.598	2.467	2.369	2.568	2.479	2.803			2.614	6.78
90)	Carbon Disulfi...	2.401	2.798	2.556	2.276	2.180	2.285	2.064	2.361			2.365	9.65
91)	Trichlorotrifl...	3.512	3.241	3.130	2.902	2.820	2.995	2.830	3.137			3.071	7.65
92)	Trans-1,2-Dich...	2.350	2.101	1.848	1.762	1.632	1.623	1.579	1.767			1.833	14.55
93)	1,1-Dichloroet...	2.423	2.756	2.352	2.295	1.845	2.290	1.846	2.477			2.285	13.53
94)	Cis-1,2-Dichlo...	1.354	0.937	1.232	1.142	0.997	1.109	1.070	1.271			1.139	12.37
95)	Chloroform(sim)	2.998	2.793	2.636	2.567	2.442	2.688	2.568	2.867			2.695	6.75
96)	Benzene(sim)	2.513	2.273	2.230	1.745	1.692	1.769	1.690	1.978			1.986	15.91

Method Path : H:\AIR2017\CHEM20\METHODS\
Method File : 20_AIR_0405.M
Title : VOA Standards for 5 point calibration

97)	int 1,4-Difluorobenzen...	----------ISTD----------											
98)	1,2-dichloropr...	0.322	0.167	0.182	0.165	0.206	0.178	0.174	0.200			0.199	25.90
99)	Bromodichlorom...	0.617	0.572	0.548	0.535	0.515	0.534	0.523				0.549	6.39
100)	Trichloroethen...	0.443	0.346	0.370	0.334	0.350	0.333	0.346	0.390			0.364	10.22
101)	1,4-Dioxane(sim)	0.156	0.128	0.120	0.119	0.111	0.118	0.118				0.124	11.88
102)	cis-1,3-Dichlo...	0.322	0.233	0.286	0.308	0.280	0.296	0.297				0.289	9.77
103)	1,1,2-Trichlor...	0.409	0.372	0.324	0.326	0.315	0.328	0.318	0.355			0.343	9.64
104)	Dibromochlorom...	0.967	0.840	0.750	0.837	0.803	0.806	0.812	0.899			0.839	7.93
105)	1,2-Dibromoeth...	0.648	0.599	0.604	0.577	0.578	0.612	0.605	0.697			0.615	6.49
106)	Tetrachloroeth...	0.385	0.457	0.448	0.475	0.449	0.459	0.451	0.505	0.501		0.459	7.64
107)	int Chlorobenzene-d5(sim)	----------ISTD----------											
108)	Bromoform(sim)	3.170	2.260	2.331	2.481	2.160	2.385	2.296				2.441	13.80
109)	Chlorobenzene(...	2.531	2.353	2.141	2.067	1.906	1.979	1.894	1.990			2.108	10.75
110)	Ethylbenzene(sim)	2.463	1.977	2.100	1.913	1.810	1.889	1.998	2.279			2.054	10.66
111)	m,p-Xylene(sim)	1.762	1.684	1.594	1.599	1.601	1.870	1.995	2.217			1.790	12.56
112)	Styrene(sim)	1.399	0.850	0.982	0.912	1.015	1.064	1.105				1.047	16.99
113)	1,1,2,2-Tetrac...	2.047	1.950	1.857	1.769	1.746	1.849	1.750				1.852	6.09
114)	o-Xylene(sim)	1.721	1.524	1.579	1.339	1.513	1.689	1.851				1.602	10.44
115)	Isopropylbenze...	2.779	2.507	2.442	2.373	2.345	2.518	2.546	2.774			2.536	6.48
117)	4-Ethyltoluene...	2.321	2.049	1.942	1.996	2.189	2.583	2.766	3.075			2.365	17.22
118)	1,3,5-Trimethy...	1.985	1.778	2.149	1.582	1.898	2.128	2.301	2.451			2.034	13.88
119)	1,2,4-Trimethy...	1.833	1.665	1.654	1.653	1.839	2.250	2.407	2.747			2.006	20.56
121)	Benzyl chlorid...	1.412	1.304	1.314	1.342	1.662	1.919	2.172	2.501			1.703	26.53
122)	1,3-Dichlorobe...	2.121	1.189	1.633	1.653	1.713	1.846	1.972	2.063			1.774	16.89
123)	1,4-Dichlorobe...	1.687	1.598	1.689	1.848	2.117	2.415	2.445				1.971	18.03
124)	sec-Butylbenze...	1.898	1.320	1.635	1.684	1.661	2.073	2.219				1.784	16.93
125)	4-Isopropyltol...	2.307	2.221	2.115	2.147	2.359	2.805	3.008				2.423	14.27
126)	1,2-Dichlorobe...	1.474	1.684	1.929	1.436	1.723	1.927	1.801	1.985			1.745	11.87
127)	n-Butylbenzene...	1.680	1.570	1.627	1.688	1.834	2.206	2.551	2.811			1.996	23.61
128)	1,2,4-Trichlor...	0.884	0.919	0.718	0.640	0.669	0.842	1.131	1.285			0.886	25.53
130)	Hexachlorobuta...	2.418	1.739	1.788	1.627	1.816	1.788	1.841	1.829			1.856	12.78

(#,$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_03.D
Acq On : 05 Apr 2017 12:02 pm
Operator : CORTEX\ms
Client ID : ICAL 0.035
Lab ID : 0.035ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:44:30 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:43:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.979	130	199549	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.882	114	513761	10.000	ng	0.00
53) Chlorobenzene-d5	9.927	82	210400	10.000	ng	# 0.00
80) Bromochloromethane(sim)	6.979	130	199549	10.000	ng	-0.02
97) 1,4-Difluorobenzene(sim)	7.884	114	617727	10.000	ng	0.00
107) Chlorobenzene-d5(sim)	9.923	82	216490	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.712	95	302304	11.384	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.80%			
Target Compounds						Qvalue
2) Propylene	3.659	41	844	0.039	ppbv#	42
3) Dichlorodifluoromethane	3.724	85	2506	0.034	ppbv#	91
4) Chloromethane	3.886	50	1551	0.064	ppbv#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	2758	0.045	ppbv#	81
6) Vinyl Chloride	4.089	62	1203	0.061	ppbv	65
7) 1,3-Butadiene	4.219	54	1102	0.066	ppbv#	59
8) Bromomethane	4.454	94	1020	0.054	ppbv#	72
9) Chloroethane	4.592	64	757	0.087	ppbv#	73
11) Ethanol	4.738	45	958	0.081	ppbv#	11
12) Acetone	5.111	43	6259	0.104	ppbv#	60
13) Trichlorofluoromethane	5.208	101	3016	0.036	ppbv#	64
14) Isopropylalcohol	5.306	45	3550	0.062	ppbv#	46
15) Acrylonitrile	5.447	53	1354	0.075	ppbv#	68
16) 1,1-Dichloroethene	5.679	61	1788	0.041	ppbv#	82
17) Methylene Chloride	5.757	49	4737	0.126	ppbv#	73
20) Carbon Disulfide	5.965	76	1742	0.040	ppbv#	74
21) Trichlorotrifluoroethane	5.929	101	1803	0.039	ppbv#	64
22) Trans-1,2-Dichloroethene	6.334	61	1641	0.049	ppbv#	82
23) 1,1-Dichloroethane	6.454	63	1612	0.046	ppbv	98
24) Methyl tert-butyl ethe...	6.496	73	1575	0.035	ppbv#	10
25) Methyl Ethyl Ketone	6.679	43	2010	0.045	ppbv#	75
26) Cis-1,2-Dichloroethene	6.886	61	946	0.039	ppbv	86
27) Hexane	6.987	57	694	0.036	ppbv#	3
28) Chloroform	7.034	83	1838	0.043	ppbv	71
29) Ethyl acetate	6.995	61	73	0.017	ppbv#	75
30) Tetrahydrofuran	7.212	42	120	0.007	ppbv#	34
31) 1,2-Dichloroethane	7.398	62	1395	0.038	ppbv#	72
32) 1,1,1-Trichloroethane	7.522	97	2228	0.044	ppbv#	86
33) Benzene	7.741	78	1755	0.047	ppbv#	86
34) Carbon Tetrachloride	7.807	117	2488	0.039	ppbv	90
35) Cyclohexane	7.865	41	1035	0.064	ppbv#	1
37) 1,2-dichloropropane	8.114	63	696	0.059	ppbv#	57
38) Bromodichloromethane	8.197	83	2107	0.047	ppbv#	99
39) Trichloroethene	8.213	130	829	0.036	ppbv#	82
41) 1,4-Dioxane	8.221	88	458	0.059	ppbv#	46
43) Heptane	8.329	43	940	0.045	ppbv#	37
44) cis-1,3-Dichloropropene	8.594	75	696	0.032	ppbv	71
45) 4-Methyl-2-pentanone(M...	8.603	43	941	0.027	ppbv#	87
46) trans-1,3-Dichloropropene	8.830	75	672	0.029	ppbv#	71
47) 1,1,2-Trichloroethane	8.929	97	656	0.040	ppbv	92
48) Toluene	9.062	91	1366	0.036	ppbv	91
49) Dibromochloromethane	9.267	129	2090	0.039	ppbv#	80

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_03.D
Acq On : 05 Apr 2017 12:02 pm
Operator : CORTEX\ms
Client ID : ICAL 0.035
Lab ID : 0.035ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:44:30 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:43:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.154	43	1006	0.031	ppbv#	58
51) 1,2-Dibromoethane(EDB)	9.386	107	1048	0.032	ppbv	83
52) Tetrachloroethene	9.604	166	977	0.032	ppbv#	78
54) 1,1,1,2-Tetrachloroethane	9.934	131	1380	0.057	ppbv#	90
55) Chlorobenzene	9.949	112	1813	0.057	ppbv#	1
56) Ethylbenzene	10.127	91	1866	0.042	ppbv	89
57) m,p-Xylene	10.208	91	2806	0.073	ppbv	99
58) Bromoform	10.275	173	2641	0.057	ppbv#	84
59) Styrene	10.408	104	1060	0.042	ppbv#	95
60) 1,1,2,2-Tetrachloroethane	10.460	83	1838	0.064	ppbv	93
61) o-Xylene	10.467	91	1304	0.033	ppbv#	70
64) Isopropylbenzene	10.778	105	2261	0.046	ppbv	97
66) 4-Ethyltoluene	11.141	105	1509	0.028	ppbv#	93
67) 1,3,5-Trimethylbenzene	11.178	105	1504	0.032	ppbv#	96
68) 1,2,4-Trimethylbenzene	11.423	105	1438	0.029	ppbv#	87
70) Benzyl chloride	11.512	91	984	0.022	ppbv#	85
71) 1,3-Dichlorobenzene	11.534	146	1607	0.041	ppbv	96
72) 1,4-Dichlorobenzene	11.571	146	1100	0.029	ppbv#	85
73) sec-Butylbenzene	11.586	105	1798	0.029	ppbv	98
74) 4-Isopropyltoluene	11.682	119	1632	0.027	ppbv#	85
75) 1,2-Dichlorobenzene	11.786	146	1117	0.030	ppbv	95
76) n-Butylbenzene	11.949	91	1094	0.022	ppbv#	78
77) 1,2,4-Trichlorobenzene	12.906	180	670	0.024	ppbv	86
79) Hexachlorobutadiene	13.232	225	1832	0.052	ppbv	87
81] Dichlorodifluoromethan...	3.727	85	3483	0.038	ppbv	95
82] 1,2-Dichlorotetrafluor...	3.975	85	2758	0.044	ppbv#	81
83] Vinyl Chloride(sim)	4.084	62	1058	0.044	ppbv	95
84] Bromomethane(sim)	4.457	94	989m	0.052	ppbv	
85] Trichlorofluoromethane...	5.211	101	4352	0.040	ppbv	98
86] 1,2-Dichloroethane(sim)	7.398	62	1395	0.038	ppbv#	72
87] 1,1,1-Trichloroethane(...	7.525	97	2528	0.039	ppbv#	96
88] Carbon Tetrachloride(sim)	7.807	117	2488	0.039	ppbv	90
89] 1,1-Dichloroethene(sim)	5.676	61	1987	0.038	ppbv	89
90] Carbon Disulfide(sim)	5.965	76	1677	0.038	ppbv#	72
91] Trichlorotrifluoroetha...	5.926	101	2453	0.041	ppbv	96
92] Trans-1,2-Dichloroethe...	6.334	61	1641	0.049	ppbv#	82
93] 1,1-Dichloroethane(sim)	6.452	63	1692	0.039	ppbv#	93
94] Cis-1,2-Dichloroethene...	6.886	61	946	0.041	ppbv	89
95] Chloroform(sim)	7.037	83	2094	0.039	ppbv#	81
96] Benzene(sim)	7.741	78	1755	0.048	ppbv#	86
98] 1,2-dichloropropane(sim)	8.114	63	696	0.060	ppbv#	57
99] Bromodichloromethane(sim)	8.199	85	1333m	13.155	ppbv	
100] Trichloroethene(sim)	8.216	130	958m	0.042	ppbv	
101] 1,4-Dioxane(sim)	8.216	88	337	0.046	ppbv#	75
102] cis-1,3-Dichloropropen...	8.594	75	696	0.038	ppbv#	71
103] 1,1,2-Trichloroethane(...	8.925	97	885	0.043	ppbv	93
104] Dibromochloromethane(sim)	9.267	129	2090	0.040	ppbv	82
105] 1,2-Dibromoethane(EDB)...	9.389	107	1401	0.035	ppbv	100
106] Tetrachloroethene(sim)	9.604	166	833	0.028	ppbv#	73
108] Bromoform(sim)	10.275	173	2402	0.048	ppbv	90
109] Chlorobenzene(sim)	9.945	112	1918	0.046	ppbv#	1
110] Ethylbenzene(sim)	10.127	91	1866	0.040	ppbv#	85
111] m,p-Xylene(sim)	10.219	91	2670	0.059	ppbv	97
112] Styrene(sim)	10.408	104	1060	0.044	ppbv#	87
113] 1,1,2,2-Tetrachloroeth...	10.463	83	1551	0.041	ppbv#	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_03.D
Acq On : 05 Apr 2017 12:02 pm
Operator : CORTEX\ms
Client ID : ICAL 0.035
Lab ID : 0.035ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:44:30 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:43:15 2017
Response via : Initial Calibration

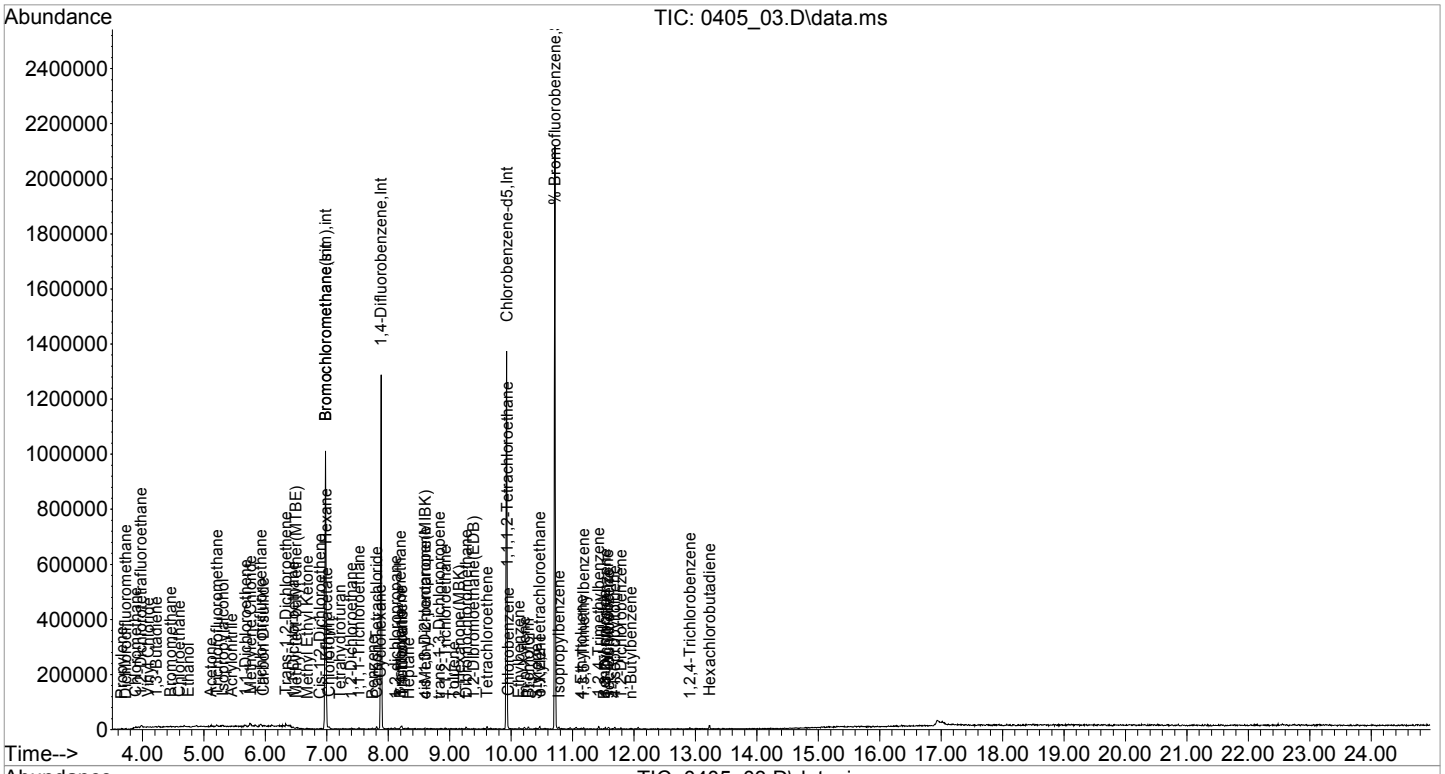
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	1304	0.033	ppbv#	67
115] Isopropylbenzene(sim)	10.774	105	2106	0.037	ppbv#	66
117] 4-Ethyltoluene(sim)	11.137	105	1759	0.028	ppbv#	84
118] 1,3,5-Trimethylbenzene...	11.178	105	1504	0.029	ppbv#	93
119] 1,2,4-Trimethylbenzene...	11.426	105	1389	0.025	ppbv#	95
121] Benzyl chloride(sim)	11.515	91	1070	0.021	ppbv	82
122] 1,3-Dichlorobenzene(sim)	11.534	146	1607	0.037	ppbv	96
123] 1,4-Dichlorobenzene(sim)	11.574	146	1278	0.024	ppbv	94
124] sec-Butylbenzene(sim)	11.423	105	1438	0.030	ppbv	58
125] 4-Isopropyltoluene(sim)	11.678	119	1748	0.027	ppbv	93
126] 1,2-Dichlorobenzene(sim)	11.786	146	1117	0.027	ppbv	94
127] n-Butylbenzene(sim)	11.945	91	1273	0.022	ppbv#	44
128] 1,2,4-Trichlorobenzene...	12.906	180	670	0.026	ppbv	84
130] Hexachlorobutadiene(sim)	13.232	225	1832	0.046	ppbv#	89

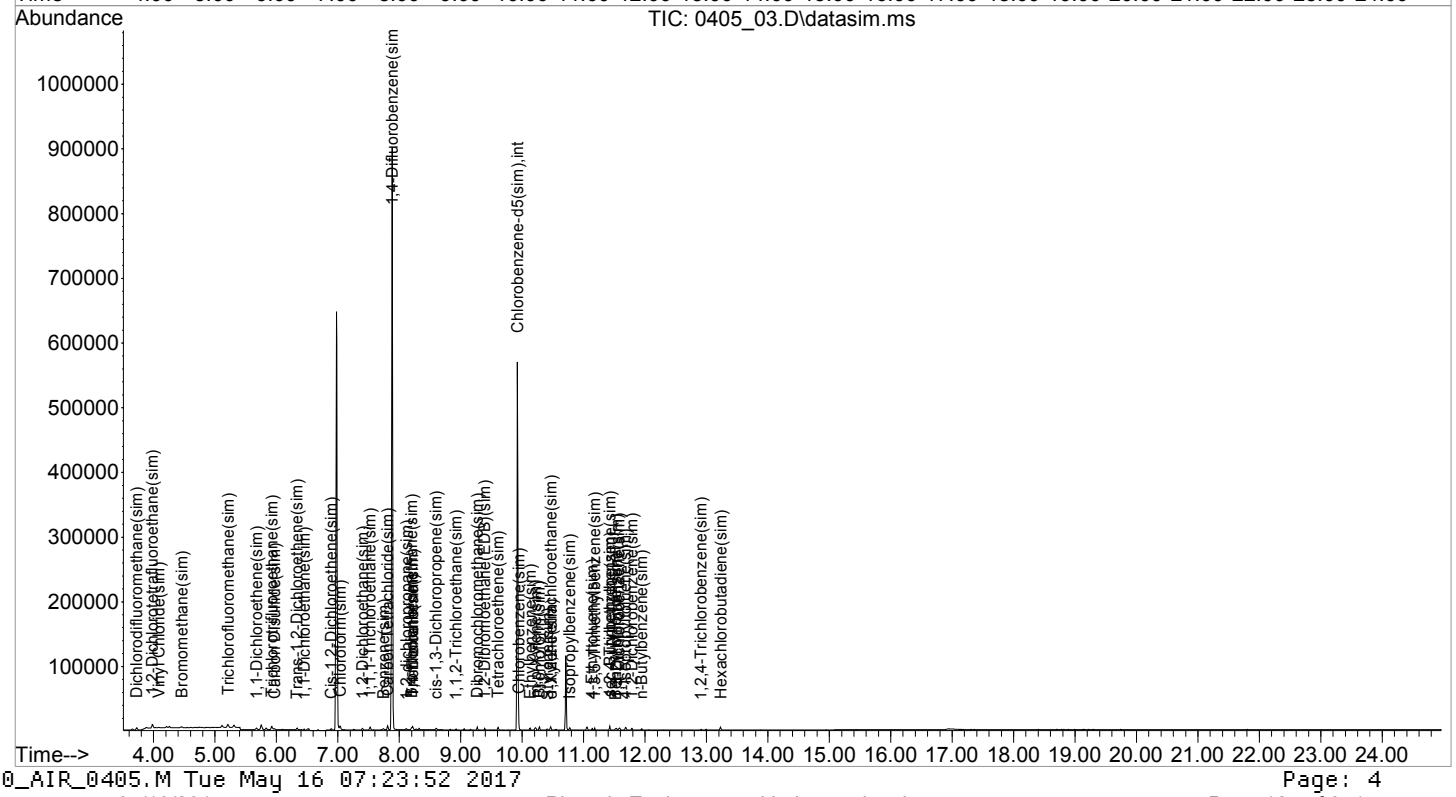
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_03.D
Acq On : 05 Apr 2017 12:02 pm
Operator : CORTEX\ms
Client ID : ICAL 0.035
Lab ID : 0.035ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:44:30 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:43:15 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 05 Apr 2017 12:39 pm
Operator : CORTEX\ms
Client ID : ICAL 0.05
Lab ID : 0.05ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:45:21 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.971	130	207003	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	524688	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	210962	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.971	130	207003	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.876	114	624904	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	219171	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	309206	11.613	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.10%				
Target Compounds							Qvalue
2) Propylene	3.610	41	1361	0.061	ppbv	#	82
3) Dichlorodifluoromethane	3.683	85	4086	0.054	ppbv	#	96
4) Chloromethane	3.837	50	2311	0.092	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.942	85	3505	0.055	ppbv	#	94
6) Vinyl Chloride	4.048	62	1347	0.066	ppbv		89
7) 1,3-Butadiene	4.218	54	294	0.017	ppbv	#	1
8) Bromomethane	4.413	94	1606	0.082	ppbv	#	93
9) Chloroethane	4.567	64	534	0.059	ppbv	#	14
11) Ethanol	4.729	45	1653	0.135	ppbv	#	52
12) Acetone	5.103	43	5034	0.081	ppbv	#	77
13) Trichlorofluoromethane	5.176	101	5042	0.057	ppbv	#	88
14) Isopropylalcohol	5.305	45	6486	0.109	ppbv	#	32
15) Acrylonitrile	5.435	53	2104	0.113	ppbv	#	29
16) 1,1-Dichloroethene	5.655	61	2422	0.053	ppbv		92
17) Methylene Chloride	5.732	49	5646	0.145	ppbv	#	74
20) Carbon Disulfide	5.947	76	2714	0.060	ppbv	#	89
21) Trichlorotrifluoroethane	5.899	101	2380	0.049	ppbv	#	58
22) Trans-1,2-Dichloroethene	6.318	61	2175	0.063	ppbv		96
23) 1,1-Dichloroethane	6.433	63	2386	0.066	ppbv		69
24) Methyl tert-butyl ethe...	6.501	73	2169	0.047	ppbv	#	40
25) Methyl Ethyl Ketone	6.668	43	2710	0.058	ppbv	#	71
26) Cis-1,2-Dichloroethene	6.886	61	970	0.038	ppbv	#	65
27) Hexane	6.979	57	640	0.032	ppbv	#	1
28) Chloroform	7.026	83	2821	0.064	ppbv	#	69
29) Ethyl acetate	6.886	61	970	0.223	ppbv	#	83
30) Tetrahydrofuran	7.258	42	785	0.043	ppbv	#	71
31) 1,2-Dichloroethane	7.397	62	2041	0.054	ppbv	#	86
32) 1,1,1-Trichloroethane	7.514	97	2394	0.045	ppbv	#	74
33) Benzene	7.732	78	2353	0.061	ppbv	#	70
34) Carbon Tetrachloride	7.806	117	3030	0.046	ppbv		89
35) Cyclohexane	7.864	41	1112	0.067	ppbv	#	1
37) 1,2-dichloropropane	8.105	63	523	0.043	ppbv	#	1
38) Bromodichloromethane	8.196	83	2640	0.058	ppbv		91
39) Trichloroethene	8.213	130	1081	0.047	ppbv	#	82
41) 1,4-Dioxane	8.213	88	249	0.032	ppbv	#	1
43) Heptane	8.354	43	93	0.004	ppbv	#	1
44) cis-1,3-Dichloropropene	8.594	75	728	0.033	ppbv	#	22
45) 4-Methyl-2-pentanone(M...	8.602	43	1663	0.047	ppbv	#	96
46) trans-1,3-Dichloropropene	8.823	75	1103	0.047	ppbv	#	81
47) 1,1,2-Trichloroethane	8.914	97	1100	0.065	ppbv		92
48) Toluene	9.055	91	1698	0.043	ppbv	#	92
49) Dibromochloromethane	9.266	129	2626	0.048	ppbv	#	86

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 05 Apr 2017 12:39 pm
Operator : CORTEX\ms
Client ID : ICAL 0.05
Lab ID : 0.05ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:45:21 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.161	43	1061	0.032	ppbv#	89
51) 1,2-Dibromoethane(EDB)	9.386	107	1469	0.044	ppbv	98
52) Tetrachloroethene	9.611	166	1427	0.046	ppbv#	76
54) 1,1,1,2-Tetrachloroethane	9.934	131	1611	0.066	ppbv#	84
55) Chlorobenzene	9.941	112	2410	0.076	ppbv#	1
56) Ethylbenzene	10.126	91	2167	0.048	ppbv	96
57) m,p-Xylene	10.215	91	3350	0.087	ppbv	99
58) Bromoform	10.282	173	2477	0.053	ppbv	92
59) Styrene	10.408	104	932	0.037	ppbv#	31
60) 1,1,2,2-Tetrachloroethane	10.459	83	1596	0.055	ppbv	89
61) o-Xylene	10.467	91	1670	0.042	ppbv#	75
64) Isopropylbenzene	10.778	105	2461	0.050	ppbv#	66
66) 4-Ethyltoluene	11.141	105	2433	0.045	ppbv#	89
67) 1,3,5-Trimethylbenzene	11.185	105	1948	0.041	ppbv#	98
68) 1,2,4-Trimethylbenzene	11.430	105	1646	0.033	ppbv#	88
70) Benzyl chloride	11.519	91	1092	0.025	ppbv#	64
71) 1,3-Dichlorobenzene	11.534	146	1303	0.033	ppbv#	83
72) 1,4-Dichlorobenzene	11.571	146	1404	0.036	ppbv	87
73) sec-Butylbenzene	11.586	105	2481	0.040	ppbv#	87
74) 4-Isopropyltoluene	11.682	119	2392	0.039	ppbv	95
75) 1,2-Dichlorobenzene	11.786	146	1928	0.051	ppbv	90
76) n-Butylbenzene	11.941	91	1387	0.027	ppbv#	73
77) 1,2,4-Trichlorobenzene	12.913	180	1007	0.036	ppbv#	54
79) Hexachlorobutadiene	13.232	225	1906	0.054	ppbv	88
81] Dichlorodifluoromethan...	3.686	85	4789	0.049	ppbv	95
82] 1,2-Dichlorotetrafluor...	3.942	85	3505	0.050	ppbv#	91
83] Vinyl Chloride(sim)	4.051	62	1412	0.052	ppbv#	87
84] Bromomethane(sim)	4.416	94	1475m	0.064	ppbv	
85] Trichlorofluoromethane...	5.187	101	6079	0.051	ppbv	100
86] 1,2-Dichloroethane(sim)	7.397	62	2041	0.052	ppbv#	86
87] 1,1,1-Trichloroethane(...	7.517	97	3346	0.048	ppbv#	94
88] Carbon Tetrachloride(sim)	7.806	117	3030	0.044	ppbv#	89
89] 1,1-Dichloroethene(sim)	5.652	61	2880	0.051	ppbv	87
90] Carbon Disulfide(sim)	5.941	76	2896	0.061	ppbv#	81
91] Trichlorotrifluoroetha...	5.908	101	3354	0.051	ppbv	100
92] Trans-1,2-Dichloroethe...	6.318	61	2175	0.055	ppbv	96
93] 1,1-Dichloroethane(sim)	6.441	63	2853	0.061	ppbv#	76
94] Cis-1,2-Dichloroethene...	6.886	61	970	0.038	ppbv#	72
95] Chloroform(sim)	7.028	83	2891	0.050	ppbv#	81
96] Benzene(sim)	7.732	78	2353	0.055	ppbv#	70
98] 1,2-dichloropropane(sim)	8.105	63	523	0.036	ppbv#	1
99] Bromodichloromethane(sim)	8.199	85	1788	0.093	ppbv#	50
100] Trichloroethene(sim)	8.213	130	1081	0.044	ppbv	91
101] 1,4-Dioxane(sim)	8.224	88	399m	0.047	ppbv	
102] cis-1,3-Dichloropropen...	8.594	75	728	0.038	ppbv#	22
103] 1,1,2-Trichloroethane(...	8.917	97	1161	0.051	ppbv	95
104] Dibromochloromethane(sim)	9.266	129	2626	0.047	ppbv	90
105] 1,2-Dibromoethane(EDB)...	9.389	107	1871	0.046	ppbv	98
106] Tetrachloroethene(sim)	9.611	166	1427	0.050	ppbv#	80
108] Bromoform(sim)	10.282	173	2477	0.041	ppbv	97
109] Chlorobenzene(sim)	9.944	112	2579	0.055	ppbv#	1
110] Ethylbenzene(sim)	10.126	91	2167	0.044	ppbv	95
111] m,p-Xylene(sim)	10.211	91	3691	0.085	ppbv	96
112] Styrene(sim)	10.408	104	932	0.034	ppbv#	32
113] 1,1,2,2-Tetrachloroeth...	10.462	83	2137	0.051	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 05 Apr 2017 12:39 pm
Operator : CORTEX\ms
Client ID : ICAL 0.05
Lab ID : 0.05ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:45:21 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

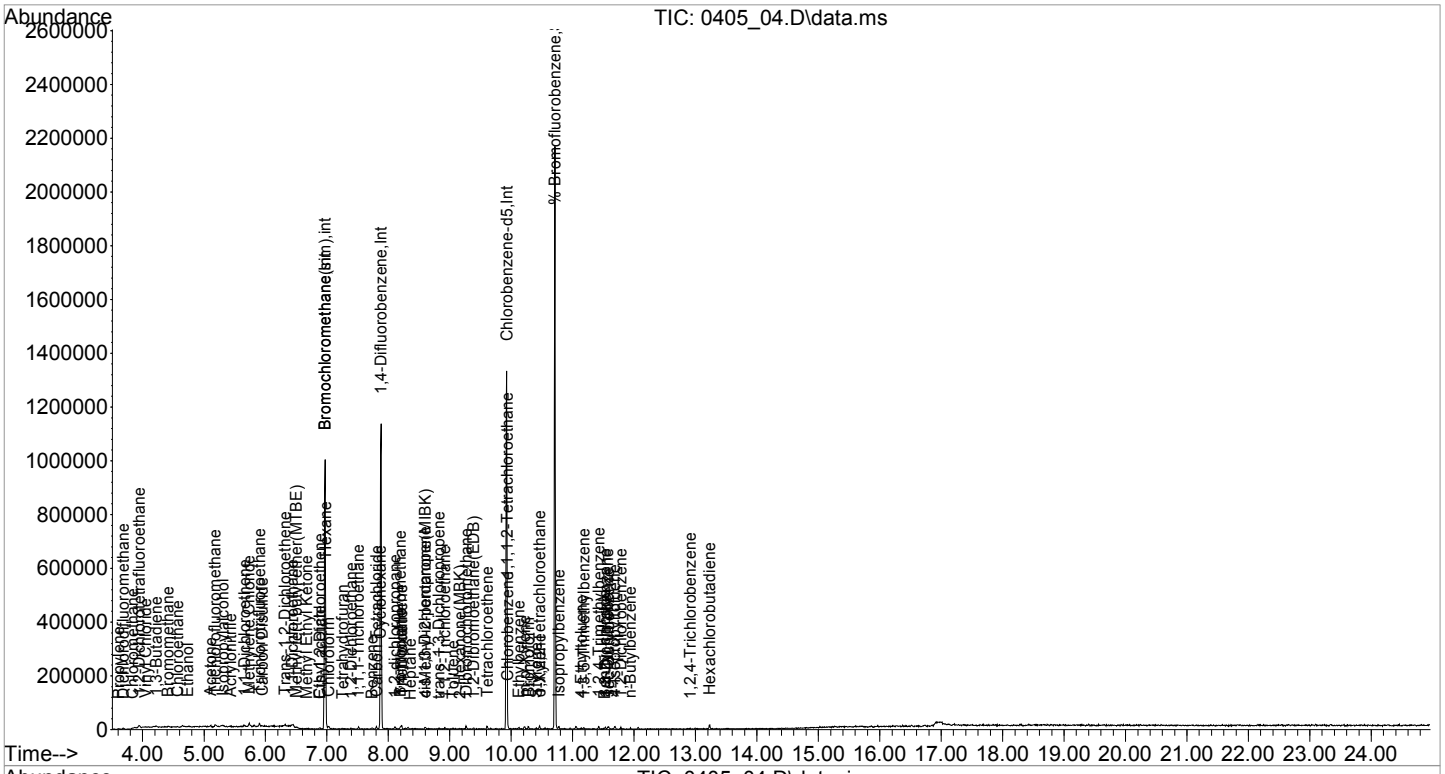
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	1670	0.043	ppbv#	72
115] Isopropylbenzene(sim)	10.773	105	2747	0.046	ppbv#	66
117] 4-Ethyltoluene(sim)	11.136	105	2245	0.038	ppbv#	88
118] 1,3,5-Trimethylbenzene...	11.185	105	1948	0.040	ppbv#	96
119] 1,2,4-Trimethylbenzene...	11.425	105	1825	0.036	ppbv#	94
121] Benzyl chloride(sim)	11.514	91	1429	0.032	ppbv	91
122] 1,3-Dichlorobenzene(sim)	11.534	146	1303	0.029	ppbv#	85
123] 1,4-Dichlorobenzene(sim)	11.574	146	1751	0.039	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	1447	0.032	ppbv#	48
125] 4-Isopropyltoluene(sim)	11.685	119	2434	0.042	ppbv	95
126] 1,2-Dichlorobenzene(sim)	11.786	146	1845	0.048	ppbv	94
127] n-Butylbenzene(sim)	11.944	91	1721	0.033	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	1007	0.042	ppbv#	43
130] Hexachlorobutadiene(sim)	13.232	225	1906	0.043	ppbv	92

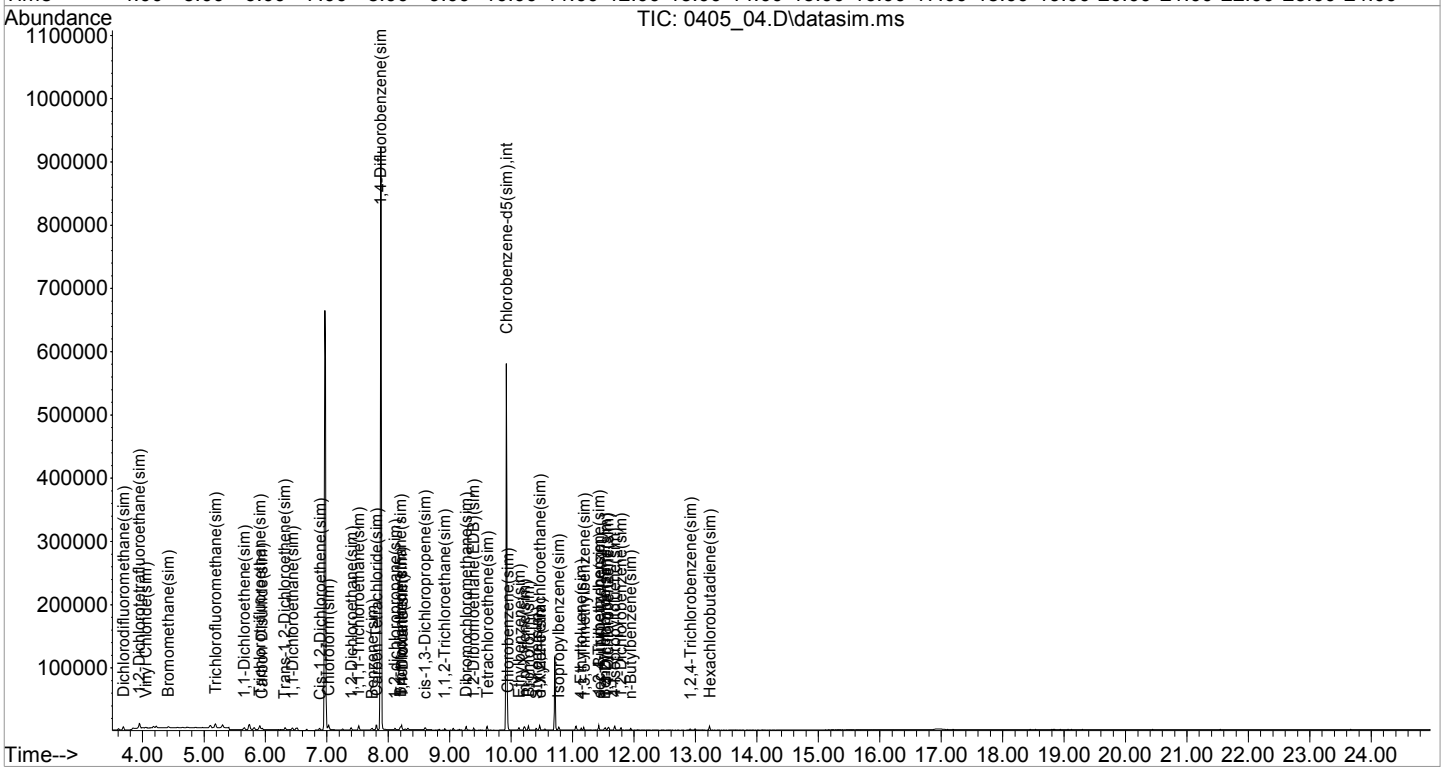
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 05 Apr 2017 12:39 pm
Operator : CORTEX\ms
Client ID : ICAL 0.05
Lab ID : 0.05ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:45:21 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_05.D
Acq On : 05 Apr 2017 01:15 pm
Operator : CORTEX\ms
Client ID : ICAL 0.1
Lab ID : 0.10ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:47:20 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	203473	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	515088	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	205850	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	203473	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	613305	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	216209	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	303429	11.679	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.80%				
Target Compounds							Qvalue
2) Propylene	3.659	41	2305	0.105	ppbv	#	89
3) Dichlorodifluoromethane	3.724	85	7653	0.103	ppbv	#	95
4) Chloromethane	3.878	50	3038	0.123	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	6868	0.110	ppbv		87
6) Vinyl Chloride	4.089	62	2059	0.103	ppbv		75
7) 1,3-Butadiene	4.202	54	1552	0.091	ppbv	#	1
8) Bromomethane	4.454	94	3173	0.164	ppbv	#	86
9) Chloroethane	4.600	64	1186	0.134	ppbv	#	19
11) Ethanol	4.738	45	2867	0.238	ppbv	#	66
12) Acetone	5.119	43	9089	0.149	ppbv	#	69
13) Trichlorofluoromethane	5.208	101	8895	0.103	ppbv	#	94
14) Isopropylalcohol	5.305	45	8622	0.147	ppbv	#	56
15) Acrylonitrile	5.435	53	2956	0.161	ppbv	#	82
16) 1,1-Dichloroethene	5.673	61	4667	0.104	ppbv	#	92
17) Methylene Chloride	5.750	49	7196	0.188	ppbv	#	78
20) Carbon Disulfide	5.959	76	5200	0.116	ppbv	#	78
21) Trichlorotrifluoroethane	5.923	101	5049	0.107	ppbv		94
22) Trans-1,2-Dichloroethene	6.334	61	3710	0.109	ppbv		94
23) 1,1-Dichloroethane	6.454	63	4199	0.119	ppbv		88
24) Methyl tert-butyl ethe...	6.501	73	4086	0.090	ppbv	#	61
25) Methyl Ethyl Ketone	6.683	43	4824	0.105	ppbv	#	75
26) Cis-1,2-Dichloroethene	6.894	61	2506	0.100	ppbv	#	85
27) Hexane	6.987	57	1681	0.086	ppbv	#	46
28) Chloroform	7.033	83	4190	0.097	ppbv	#	77
29) Ethyl acetate	6.995	61	351	0.082	ppbv	#	1
30) Tetrahydrofuran	7.258	42	2335	0.130	ppbv	#	61
31) 1,2-Dichloroethane	7.398	62	3787	0.102	ppbv		95
32) 1,1,1-Trichloroethane	7.522	97	4887	0.094	ppbv	#	81
33) Benzene	7.740	78	4537	0.120	ppbv	#	77
34) Carbon Tetrachloride	7.806	117	6834	0.106	ppbv		97
35) Cyclohexane	7.873	41	1927	0.118	ppbv	#	1
37) 1,2-dichloropropane	8.113	63	1114	0.093	ppbv	#	34
38) Bromodichloromethane	8.196	83	4397	0.098	ppbv		95
39) Trichloroethene	8.213	130	2272	0.100	ppbv	#	81
41) 1,4-Dioxane	8.221	88	662	0.086	ppbv	#	84
43) Heptane	8.320	43	1895	0.091	ppbv		86
44) cis-1,3-Dichloropropene	8.594	75	1756	0.080	ppbv		81
45) 4-Methyl-2-pentanone(M...	8.602	43	2844	0.082	ppbv	#	84
46) trans-1,3-Dichloropropene	8.830	75	1923	0.084	ppbv	#	90
47) 1,1,2-Trichloroethane	8.921	97	1573	0.095	ppbv	#	73
48) Toluene	9.055	91	3953	0.103	ppbv	#	79
49) Dibromochloromethane	9.266	129	4599	0.085	ppbv	#	88

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_05.D
Acq On : 05 Apr 2017 01:15 pm
Operator : CORTEX\ms
Client ID : ICAL 0.1
Lab ID : 0.10ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:47:20 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.154	43	1609	0.049	ppbv#	89
51) 1,2-Dibromoethane(EDB)	9.393	107	3050	0.094	ppbv	96
52) Tetrachloroethene	9.611	166	2746	0.090	ppbv	89
54) 1,1,1,2-Tetrachloroethane	9.934	131	2626	0.110	ppbv#	83
55) Chlorobenzene	9.949	112	4195	0.136	ppbv#	1
56) Ethylbenzene	10.126	91	4540	0.104	ppbv	89
57) m,p-Xylene	10.215	91	6877	0.183	ppbv#	89
58) Bromoform	10.275	173	5040	0.111	ppbv	96
59) Styrene	10.408	104	2123	0.086	ppbv#	85
60) 1,1,2,2-Tetrachloroethane	10.460	83	3542	0.126	ppbv#	84
61) o-Xylene	10.467	91	3413	0.089	ppbv#	95
64) Isopropylbenzene	10.778	105	4528	0.094	ppbv#	88
66) 4-Ethyltoluene	11.141	105	3903	0.073	ppbv#	90
67) 1,3,5-Trimethylbenzene	11.178	105	4647	0.101	ppbv	93
68) 1,2,4-Trimethylbenzene	11.430	105	3535	0.073	ppbv#	86
70) Benzyl chloride	11.519	91	2683	0.062	ppbv#	86
71) 1,3-Dichlorobenzene	11.534	146	3531	0.091	ppbv	99
72) 1,4-Dichlorobenzene	11.571	146	2371	0.063	ppbv#	76
73) sec-Butylbenzene	11.586	105	4950	0.082	ppbv#	93
74) 4-Isopropyltoluene	11.682	119	4777	0.079	ppbv	98
75) 1,2-Dichlorobenzene	11.786	146	4158	0.113	ppbv#	87
76) n-Butylbenzene	11.949	91	3493	0.071	ppbv#	86
77) 1,2,4-Trichlorobenzene	12.913	180	1622	0.059	ppbv#	83
79) Hexachlorobutadiene	13.224	225	3866	0.112	ppbv	91
81] Dichlorodifluoromethan...	3.727	85	8960	0.094	ppbv	95
82] 1,2-Dichlorotetrafluor...	3.975	85	6868	0.099	ppbv	87
83] Vinyl Chloride(sim)	4.083	62	2450	0.091	ppbv	96
84] Bromomethane(sim)	4.454	94	3086	0.136	ppbv#	88
85] Trichlorofluoromethane...	5.211	101	11303	0.097	ppbv	99
86] 1,2-Dichloroethane(sim)	7.398	62	3787	0.099	ppbv	95
87] 1,1,1-Trichloroethane(...	7.524	97	6354	0.093	ppbv#	96
88] Carbon Tetrachloride(sim)	7.806	117	6834	0.102	ppbv	95
89] 1,1-Dichloroethene(sim)	5.676	61	5287	0.096	ppbv	89
90] Carbon Disulfide(sim)	5.959	76	5200	0.112	ppbv#	78
91] Trichlorotrifluoroetha...	5.920	101	6369	0.099	ppbv	99
92] Trans-1,2-Dichloroethe...	6.334	61	3761	0.097	ppbv	94
93] 1,1-Dichloroethane(sim)	6.452	63	4785	0.105	ppbv#	90
94] Cis-1,2-Dichloroethene...	6.894	61	2506	0.100	ppbv#	85
95] Chloroform(sim)	7.036	83	5364	0.094	ppbv#	87
96] Benzene(sim)	7.740	78	4537	0.108	ppbv#	77
98] 1,2-dichloropropane(sim)	8.113	63	1114	0.078	ppbv#	34
99] Bromodichloromethane(sim)	8.199	85	3363m	0.177	ppbv	
100] Trichloroethene(sim)	8.213	130	2272	0.094	ppbv	84
101] 1,4-Dioxane(sim)	8.216	88	738	0.088	ppbv#	72
102] cis-1,3-Dichloropropen...	8.594	75	1756	0.092	ppbv#	85
103] 1,1,2-Trichloroethane(...	8.924	97	1985	0.090	ppbv	98
104] Dibromochloromethane(sim)	9.266	129	4599	0.084	ppbv	93
105] 1,2-Dibromoethane(EDB)...	9.389	107	3702	0.093	ppbv	97
106] Tetrachloroethene(sim)	9.611	166	2746	0.097	ppbv	89
108] Bromoform(sim)	10.275	173	5040	0.085	ppbv	96
109] Chlorobenzene(sim)	9.944	112	4630	0.100	ppbv#	1
110] Ethylbenzene(sim)	10.126	91	4540	0.093	ppbv#	88
111] m,p-Xylene(sim)	10.218	91	6893	0.160	ppbv	99
112] Styrene(sim)	10.408	104	2123	0.078	ppbv#	85
113] 1,1,2,2-Tetrachloroeth...	10.462	83	4015	0.098	ppbv#	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_05.D
Acq On : 05 Apr 2017 01:15 pm
Operator : CORTEX\ms
Client ID : ICAL 0.1
Lab ID : 0.10ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

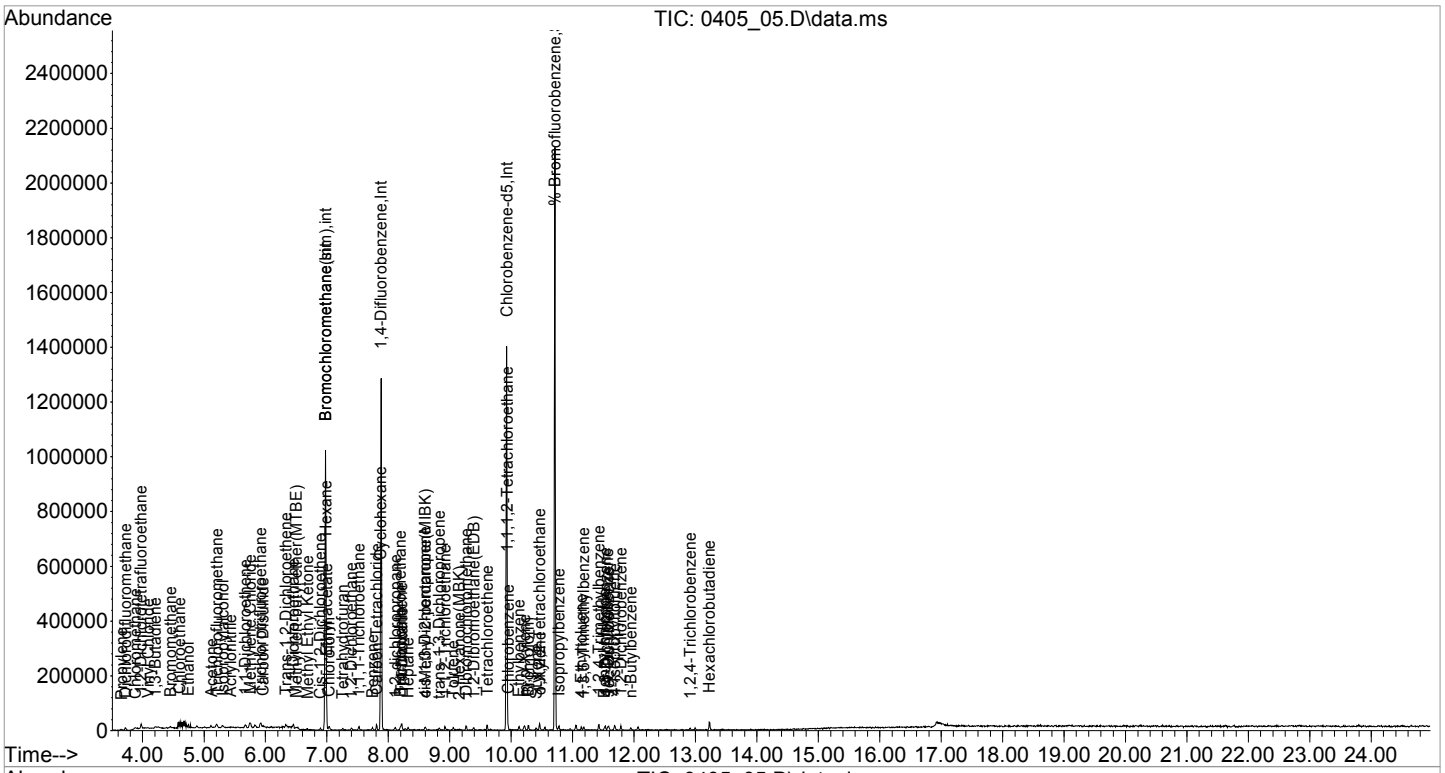
Quant Time: Apr 06 08:47:20 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	3413	0.088	ppbv#	97
115] Isopropylbenzene(sim)	10.773	105	5280	0.090	ppbv#	67
117] 4-Ethyltoluene(sim)	11.136	105	4198	0.071	ppbv	96
118] 1,3,5-Trimethylbenzene...	11.178	105	4647	0.096	ppbv	90
119] 1,2,4-Trimethylbenzene...	11.425	105	3577	0.071	ppbv	96
121] Benzyl chloride(sim)	11.514	91	2841	0.065	ppbv	98
122] 1,3-Dichlorobenzene(sim)	11.534	146	3531	0.080	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.574	146	3652	0.082	ppbv	96
124] sec-Butylbenzene(sim)	11.430	105	3535	0.079	ppbv#	71
125] 4-Isopropyltoluene(sim)	11.678	119	4573	0.080	ppbv	95
126] 1,2-Dichlorobenzene(sim)	11.786	146	4170	0.110	ppbv	87
127] n-Butylbenzene(sim)	11.944	91	3517	0.069	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	1552	0.065	ppbv#	77
130] Hexachlorobutadiene(sim)	13.224	225	3866	0.088	ppbv	94

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_05.D
Acq On : 05 Apr 2017 01:15 pm
Operator : CORTEX\ms
Client ID : ICAL 0.1
Lab ID : 0.10ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:47:20 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:44:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 05 Apr 2017 01:52 pm
Operator : CORTEX\ms
Client ID : ICAL 0.25
Lab ID : 0.2ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:59:22 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	205388	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	510786	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	209222	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	205388	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	607106	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	217763	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.712	95	311636	10.952	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.50%				
Target Compounds							Qvalue
2) Propylene	3.643	41	3785	0.177	ppbv	#	76
3) Dichlorodifluoromethane	3.724	85	14001	0.189	ppbv		97
4) Chloromethane	3.878	50	5978	0.234	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	12218	0.193	ppbv		95
6) Vinyl Chloride	4.081	62	4304	0.209	ppbv		96
7) 1,3-Butadiene	4.203	54	3429	0.194	ppbv	#	13
8) Bromomethane	4.446	94	5111	0.252	ppbv	#	75
9) Chloroethane	4.592	64	2239	0.236	ppbv	#	66
11) Ethanol	4.738	45	4024	0.290	ppbv	#	56
12) Acetone	5.111	43	14020	0.220	ppbv	#	81
13) Trichlorofluoromethane	5.200	101	16283	0.186	ppbv	#	89
14) Isopropylalcohol	5.306	45	15475	0.247	ppbv	#	78
15) Acrylonitrile	5.447	53	5082	0.256	ppbv	#	82
16) 1,1-Dichloroethene	5.673	61	8417	0.189	ppbv		94
17) Methylene Chloride	5.751	49	11059	0.244	ppbv	#	77
20) Carbon Disulfide	5.959	76	9349	0.202	ppbv	#	93
21) Trichlorotrifluoroethane	5.923	101	9628	0.199	ppbv	#	85
22) Trans-1,2-Dichloroethene	6.329	61	7187	0.207	ppbv		91
23) 1,1-Dichloroethane	6.444	63	7949	0.215	ppbv		94
24) Methyl tert-butyl ethe...	6.501	73	7496	0.176	ppbv	#	57
25) Methyl Ethyl Ketone	6.673	43	8306	0.187	ppbv	#	85
26) Cis-1,2-Dichloroethene	6.886	61	4692	0.193	ppbv	#	87
27) Hexane	6.987	57	3296	0.184	ppbv	#	45
28) Chloroform	7.041	83	8388	0.194	ppbv		87
29) Ethyl acetate	6.995	61	716	0.174	ppbv	#	1
30) Tetrahydrofuran	7.258	42	3039	0.174	ppbv	#	70
31) 1,2-Dichloroethane	7.398	62	6581	0.180	ppbv		97
32) 1,1,1-Trichloroethane	7.522	97	10555	0.208	ppbv		95
33) Benzene	7.740	78	7167	0.188	ppbv	#	90
34) Carbon Tetrachloride	7.807	117	12532	0.196	ppbv		98
35) Cyclohexane	7.873	41	2907	0.182	ppbv	#	1
37) 1,2-dichloropropane	8.114	63	2002	0.175	ppbv	#	1
38) Bromodichloromethane	8.196	83	7959	0.187	ppbv		95
39) Trichloroethene	8.213	130	3857	0.177	ppbv		95
41) 1,4-Dioxane	8.221	88	1549	0.210	ppbv	#	74
43) Heptane	8.329	43	3035	0.160	ppbv	#	85
44) cis-1,3-Dichloropropene	8.594	75	3741	0.188	ppbv		89
45) 4-Methyl-2-pentanone(M...	8.603	43	4404	0.145	ppbv		96
46) trans-1,3-Dichloropropene	8.830	75	3403	0.167	ppbv		93
47) 1,1,2-Trichloroethane	8.922	97	2981	0.187	ppbv		94
48) Toluene	9.055	91	6089	0.170	ppbv	#	84
49) Dibromochloromethane	9.267	129	10169	0.197	ppbv		93

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 05 Apr 2017 01:52 pm
Operator : CORTEX\ms
Client ID : ICAL 0.25
Lab ID : 0.2ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:59:22 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.154	43	4120	0.145	ppbv#	79
51)	1,2-Dibromoethane(EDB)	9.393	107	5715	0.187	ppbv	94
52)	Tetrachloroethene	9.611	166	5765	0.199	ppbv	97
54)	1,1,1,2-Tetrachloroethane	9.934	131	5359	0.211	ppbv	93
55)	Chlorobenzene	9.949	112	6222	0.185	ppbv#	1
56)	Ethylbenzene	10.127	91	8330	0.192	ppbv	91
57)	m,p-Xylene	10.216	91	13140	0.371	ppbv#	96
58)	Bromoform	10.282	173	10807	0.225	ppbv	98
59)	Styrene	10.408	104	3972	0.167	ppbv#	86
60)	1,1,2,2-Tetrachloroethane	10.460	83	5850	0.193	ppbv	92
61)	o-Xylene	10.467	91	5830	0.160	ppbv#	86
64)	Isopropylbenzene	10.778	105	9376	0.193	ppbv#	88
66)	4-Ethyltoluene	11.141	105	8297	0.166	ppbv#	95
67)	1,3,5-Trimethylbenzene	11.186	105	6889	0.154	ppbv#	96
68)	1,2,4-Trimethylbenzene	11.430	105	7337	0.162	ppbv	97
70)	Benzyl chloride	11.519	91	5493	0.138	ppbv#	95
71)	1,3-Dichlorobenzene	11.534	146	7201	0.187	ppbv	88
72)	1,4-Dichlorobenzene	11.571	146	6281	0.174	ppbv	93
73)	sec-Butylbenzene	11.586	105	9793	0.169	ppbv#	94
74)	4-Isopropyltoluene	11.682	119	8430	0.151	ppbv#	88
75)	1,2-Dichlorobenzene	11.786	146	6368	0.168	ppbv	90
76)	n-Butylbenzene	11.949	91	6405	0.142	ppbv	97
77)	1,2,4-Trichlorobenzene	12.913	180	2709	0.117	ppbv#	96
79)	Hexachlorobutadiene	13.225	225	7126	0.194	ppbv	82
81]	Dichlorodifluoromethan...	3.719	85	17348	0.188	ppbv	96
82]	1,2-Dichlorotetrafluor...	3.975	85	12218	0.183	ppbv	96
83]	Vinyl Chloride(sim)	4.076	62	5021	0.194	ppbv	98
84]	Bromomethane(sim)	4.446	94	5082	0.210	ppbv#	75
85]	Trichlorofluoromethane...	5.203	101	21616	0.190	ppbv	100
86]	1,2-Dichloroethane(sim)	7.398	62	6581	0.177	ppbv	97
87]	1,1,1-Trichloroethane(...	7.525	97	12366	0.190	ppbv#	94
88]	Carbon Tetrachloride(sim)	7.807	117	12532	0.194	ppbv	98
89]	1,1-Dichloroethene(sim)	5.670	61	10126	0.189	ppbv	87
90]	Carbon Disulfide(sim)	5.959	76	9349	0.192	ppbv	98
91]	Trichlorotrifluoroetha...	5.920	101	11922	0.189	ppbv	98
92]	Trans-1,2-Dichloroethe...	6.329	61	7237	0.192	ppbv	90
93]	1,1-Dichloroethane(sim)	6.452	63	9427	0.201	ppbv#	96
94]	Cis-1,2-Dichloroethene...	6.886	61	4692	0.201	ppbv#	87
95]	Chloroform(sim)	7.037	83	10543	0.190	ppbv#	89
96]	Benzene(sim)	7.740	78	7167	0.176	ppbv#	90
98]	1,2-dichloropropane(sim)	8.114	63	2002	0.165	ppbv#	1
99]	Bromodichloromethane(sim)	8.199	85	6501	0.195	ppbv#	42
100]	Trichloroethene(sim)	8.213	130	4053	0.183	ppbv	92
101]	1,4-Dioxane(sim)	8.216	88	1492	0.198	ppbv#	81
102]	cis-1,3-Dichloropropen...	8.594	75	3741	0.213	ppbv#	87
103]	1,1,2-Trichloroethane(...	8.925	97	3963	0.190	ppbv	95
104]	Dibromochloromethane(sim)	9.267	129	10169	0.200	ppbv	92
105]	1,2-Dibromoethane(EDB)...	9.389	107	7007	0.188	ppbv	100
106]	Tetrachloroethene(sim)	9.611	166	5765	0.207	ppbv	94
108]	Bromoform(sim)	10.282	173	10807	0.203	ppbv	98
109]	Chlorobenzene(sim)	9.945	112	9002	0.196	ppbv#	37
110]	Ethylbenzene(sim)	10.127	91	8330	0.186	ppbv#	90
111]	m,p-Xylene(sim)	10.219	91	13924	0.357	ppbv	97
112]	Styrene(sim)	10.408	104	3972	0.174	ppbv#	87
113]	1,1,2,2-Tetrachloroeth...	10.463	83	7704	0.191	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 05 Apr 2017 01:52 pm
Operator : CORTEX\ms
Client ID : ICAL 0.25
Lab ID : 0.2ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

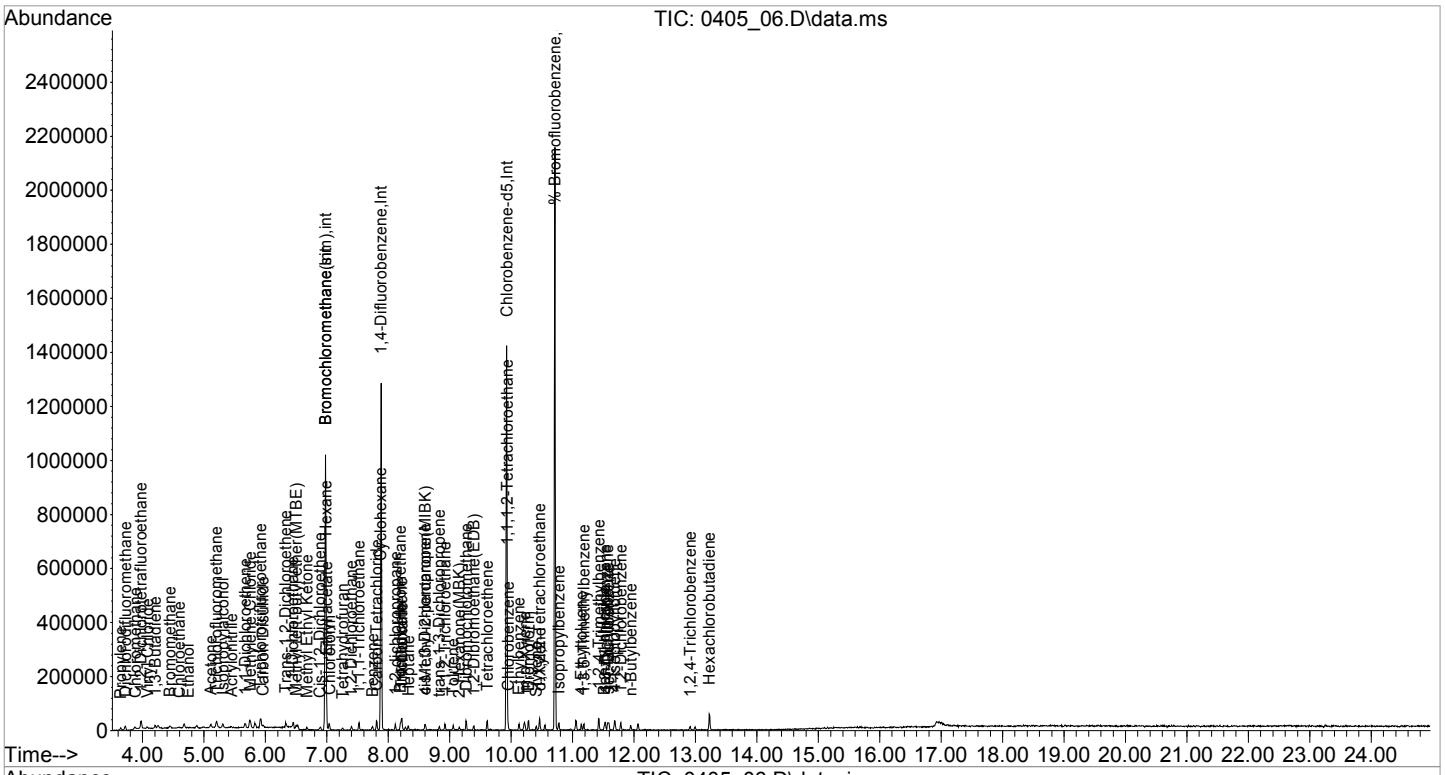
Quant Time: Apr 06 08:59:22 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

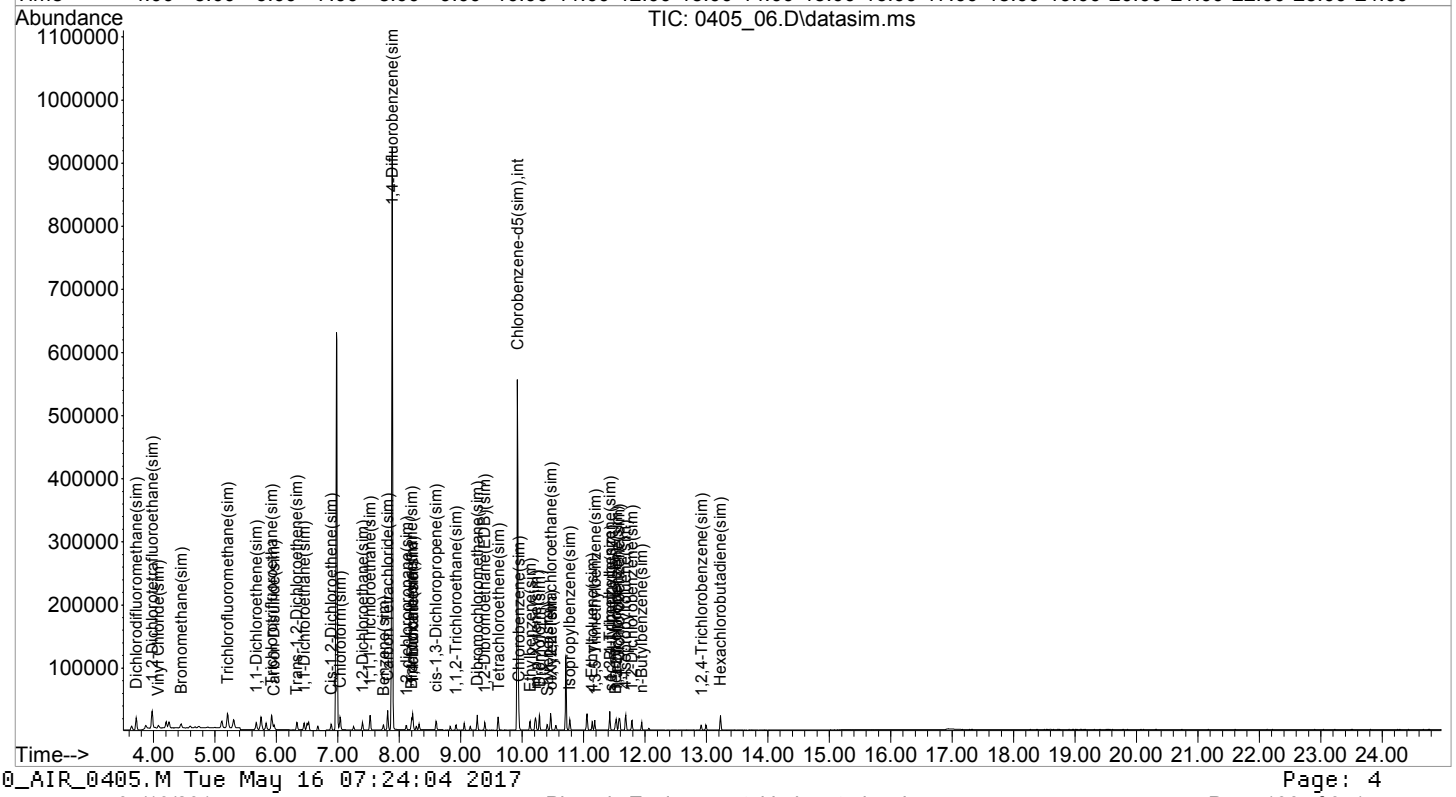
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	5830	0.167	ppbv#	83
115] Isopropylbenzene(sim)	10.774	105	10336	0.187	ppbv#	68
117] 4-Ethyltoluene(sim)	11.137	105	8692	0.169	ppbv	99
118] 1,3,5-Trimethylbenzene...	11.186	105	6889	0.156	ppbv#	94
119] 1,2,4-Trimethylbenzene...	11.426	105	7199	0.165	ppbv	96
121] Benzyl chloride(sim)	11.515	91	5845	0.158	ppbv	94
122] 1,3-Dichlorobenzene(sim)	11.534	146	7201	0.186	ppbv	88
123] 1,4-Dichlorobenzene(sim)	11.574	146	8047	0.187	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	7336	0.189	ppbv	81
125] 4-Isopropyltoluene(sim)	11.678	119	9349	0.177	ppbv	94
126] 1,2-Dichlorobenzene(sim)	11.786	146	6256	0.165	ppbv	86
127] n-Butylbenzene(sim)	11.945	91	7352	0.169	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	2788	0.145	ppbv	93
130] Hexachlorobutadiene(sim)	13.225	225	7085	0.175	ppbv#	79

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 05 Apr 2017 01:52 pm
Operator : CORTEX\ms
Client ID : ICAL 0.25
Lab ID : 0.2ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:59:22 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 05 Apr 2017 02:31 pm
Operator : CORTEX\ms
Client ID : ICAL 0.5
Lab ID : 0.5ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:56:47 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:53:23 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	207360	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	528843	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	217835	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	207360	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	616005	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	223851	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.712	95	317714	11.008	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.10%				
Target Compounds							Qvalue
2) Propylene	3.651	41	10105	0.463	ppbv		94
3) Dichlorodifluoromethane	3.724	85	34387	0.456	ppbv#		97
4) Chloromethane	3.886	50	12298	0.472	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.983	85	30264	0.470	ppbv		93
6) Vinyl Chloride	4.081	62	10745	0.520	ppbv		93
7) 1,3-Butadiene	4.211	54	9550	0.548	ppbv#		55
8) Bromomethane	4.454	94	9993	0.482	ppbv#		91
9) Chloroethane	4.600	64	4558	0.465	ppbv#		69
11) Ethanol	4.730	45	8139	0.599	ppbv#		88
12) Acetone	5.103	43	32767	0.514	ppbv#		74
13) Trichlorofluoromethane	5.208	101	44631	0.509	ppbv		95
14) Isopropylalcohol	5.298	45	31273	0.498	ppbv#		72
15) Acrylonitrile	5.441	53	10901	0.549	ppbv#		93
16) 1,1-Dichloroethene	5.673	61	21360	0.470	ppbv		87
17) Methylene Chloride	5.757	49	22232	0.481	ppbv#		72
20) Carbon Disulfide	5.965	76	22604	0.483	ppbv		96
21) Trichlorotrifluoroethane	5.923	101	24085	0.494	ppbv#		90
22) Trans-1,2-Dichloroethene	6.334	61	16919	0.478	ppbv#		86
23) 1,1-Dichloroethane	6.449	63	15507	0.413	ppbv		97
24) Methyl tert-butyl ethe...	6.491	73	16914	0.381	ppbv#		68
25) Methyl Ethyl Ketone	6.668	43	18826	0.407	ppbv#		90
26) Cis-1,2-Dichloroethene	6.894	61	10339	0.410	ppbv		96
27) Hexane	6.987	57	6424	0.338	ppbv#		8
28) Chloroform	7.041	83	20858	0.477	ppbv		90
29) Ethyl acetate	6.995	61	1975m	0.282	ppbv		
30) Tetrahydrofuran	7.251	42	6509	0.348	ppbv		89
31) 1,2-Dichloroethane	7.406	62	17108	0.457	ppbv		96
32) 1,1,1-Trichloroethane	7.522	97	22843	0.436	ppbv#		93
33) Benzene	7.740	78	17544	0.447	ppbv#		80
34) Carbon Tetrachloride	7.815	117	29442	0.450	ppbv		97
35) Cyclohexane	7.873	41	6172	0.367	ppbv#		1
37) 1,2-dichloropropane	8.114	63	6334	0.534	ppbv#		38
38) Bromodichloromethane	8.196	83	19700	0.437	ppbv		96
39) Trichloroethene	8.221	130	10770	0.470	ppbv		92
41) 1,4-Dioxane	8.213	88	3252	0.409	ppbv#		78
43) Heptane	8.321	43	7570	0.374	ppbv#		63
44) cis-1,3-Dichloropropene	8.594	75	8638	0.403	ppbv		96
45) 4-Methyl-2-pentanone(M...	8.603	43	11877	0.360	ppbv#		98
46) trans-1,3-Dichloropropene	8.830	75	7391	0.329	ppbv#		94
47) 1,1,2-Trichloroethane	8.922	97	8305	0.498	ppbv		91
48) Toluene	9.055	91	15582	0.405	ppbv#		97
49) Dibromochloromethane	9.267	129	24733	0.451	ppbv		97

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 05 Apr 2017 02:31 pm
Operator : CORTEX\ms
Client ID : ICAL 0.5
Lab ID : 0.5ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:56:47 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:53:23 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.154	43	10302	0.325	ppbv#	83
51) 1,2-Dibromoethane(EDB)	9.393	107	13669	0.420	ppbv	94
52) Tetrachloroethene	9.611	166	13474	0.441	ppbv	93
54) 1,1,1,2-Tetrachloroethane	9.934	131	13543	0.528	ppbv	99
55) Chlorobenzene	9.949	112	18688	0.544	ppbv	86
56) Ethylbenzene	10.127	91	20258	0.439	ppbv	97
57) m,p-Xylene	10.216	91	33000	0.859	ppbv	95
58) Bromoform	10.282	173	24181	0.488	ppbv	96
59) Styrene	10.408	104	11355	0.451	ppbv	98
60) 1,1,2,2-Tetrachloroethane	10.460	83	15662	0.505	ppbv	97
61) o-Xylene	10.467	91	16930	0.440	ppbv	96
64) Isopropylbenzene	10.778	105	24483	0.486	ppbv#	95
66) 4-Ethyltoluene	11.141	105	22868	0.437	ppbv#	93
67) 1,3,5-Trimethylbenzene	11.178	105	21249	0.452	ppbv#	92
68) 1,2,4-Trimethylbenzene	11.430	105	18597	0.380	ppbv	95
70) Benzyl chloride	11.519	91	17352	0.403	ppbv#	94
71) 1,3-Dichlorobenzene	11.534	146	19173	0.479	ppbv	94
72) 1,4-Dichlorobenzene	11.571	146	18791	0.511	ppbv	98
73) sec-Butylbenzene	11.586	105	27330	0.453	ppbv#	95
74) 4-Isopropyltoluene	11.682	119	25360	0.430	ppbv	97
75) 1,2-Dichlorobenzene	11.786	146	19282	0.497	ppbv	97
76) n-Butylbenzene	11.949	91	17639	0.359	ppbv	99
77) 1,2,4-Trichlorobenzene	12.913	180	7483	0.283	ppbv#	82
79) Hexachlorobutadiene	13.232	225	20360	0.545	ppbv	98
81] Dichlorodifluoromethan...	3.727	85	42796	0.453	ppbv	96
82] 1,2-Dichlorotetrafluor...	3.983	85	30264	0.440	ppbv	93
83] Vinyl Chloride(sim)	4.084	62	11668	0.436	ppbv	97
84] Bromomethane(sim)	4.454	94	9993	0.385	ppbv#	90
85] Trichlorofluoromethane...	5.211	101	52562	0.449	ppbv	99
86] 1,2-Dichloroethane(sim)	7.406	62	17211	0.449	ppbv	96
87] 1,1,1-Trichloroethane(...	7.525	97	29631	0.441	ppbv#	95
88] Carbon Tetrachloride(sim)	7.815	117	29442	0.443	ppbv	97
89] 1,1-Dichloroethene(sim)	5.676	61	24557	0.445	ppbv#	86
90] Carbon Disulfide(sim)	5.965	76	22604	0.452	ppbv	96
91] Trichlorotrifluoroetha...	5.926	101	29240	0.451	ppbv	100
92] Trans-1,2-Dichloroethe...	6.334	61	16919	0.429	ppbv#	86
93] 1,1-Dichloroethane(sim)	6.452	63	19124	0.391	ppbv#	96
94] Cis-1,2-Dichloroethene...	6.894	61	10339	0.427	ppbv	96
95] Chloroform(sim)	7.044	83	25322	0.446	ppbv#	90
96] Benzene(sim)	7.740	78	17544	0.408	ppbv#	80
98] 1,2-dichloropropane(sim)	8.114	63	6334	0.510	ppbv#	38
99] Bromodichloromethane(sim)	8.199	85	15848	0.566	ppbv#	41
100] Trichloroethene(sim)	8.221	130	10770	0.471	ppbv	90
101] 1,4-Dioxane(sim)	8.216	88	3414	0.432	ppbv#	82
102] cis-1,3-Dichloropropen...	8.594	75	8638	0.485	ppbv	96
103] 1,1,2-Trichloroethane(...	8.925	97	9687	0.448	ppbv	95
104] Dibromochloromethane(sim)	9.267	129	24733	0.472	ppbv	97
105] 1,2-Dibromoethane(EDB)...	9.389	107	17813	0.465	ppbv	98
106] Tetrachloroethene(sim)	9.611	166	13834	0.488	ppbv	94
108] Bromoform(sim)	10.282	173	24181	0.431	ppbv	96
109] Chlorobenzene(sim)	9.945	112	21336	0.441	ppbv#	76
110] Ethylbenzene(sim)	10.127	91	20258	0.427	ppbv	98
111] m,p-Xylene(sim)	10.219	91	35829	0.885	ppbv	96
112] Styrene(sim)	10.408	104	11355	0.483	ppbv	98
113] 1,1,2,2-Tetrachloroeth...	10.463	83	19539	0.466	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 05 Apr 2017 02:31 pm
Operator : CORTEX\ms
Client ID : ICAL 0.5
Lab ID : 0.5ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:56:47 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:53:23 2017
Response via : Initial Calibration

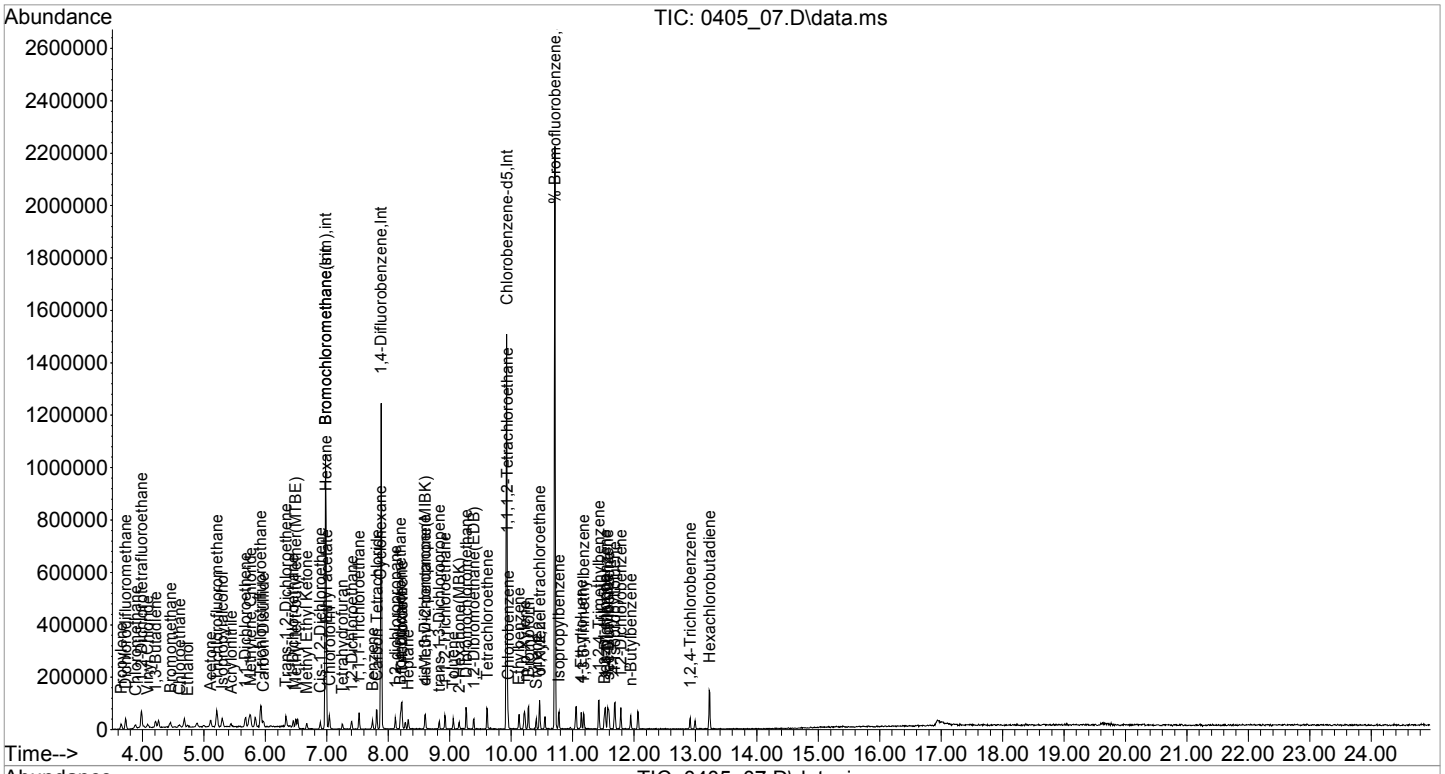
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	16930	0.472	ppbv	93
115] Isopropylbenzene(sim)	10.774	105	26248	0.456	ppbv#	68
117] 4-Ethyltoluene(sim)	11.137	105	24495	0.464	ppbv	99
118] 1,3,5-Trimethylbenzene...	11.178	105	21249	0.465	ppbv#	94
119] 1,2,4-Trimethylbenzene...	11.426	105	20586	0.461	ppbv	95
121] Benzyl chloride(sim)	11.515	91	18604	0.496	ppbv	99
122] 1,3-Dichlorobenzene(sim)	11.534	146	19173	0.483	ppbv	94
123] 1,4-Dichlorobenzene(sim)	11.574	146	23690	0.571	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	18596	0.474	ppbv	81
125] 4-Isopropyltoluene(sim)	11.685	119	26400	0.500	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	19282	0.501	ppbv	97
127] n-Butylbenzene(sim)	11.945	91	20530	0.461	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	7483	0.360	ppbv	82
130] Hexachlorobutadiene(sim)	13.232	225	20323	0.485	ppbv	97

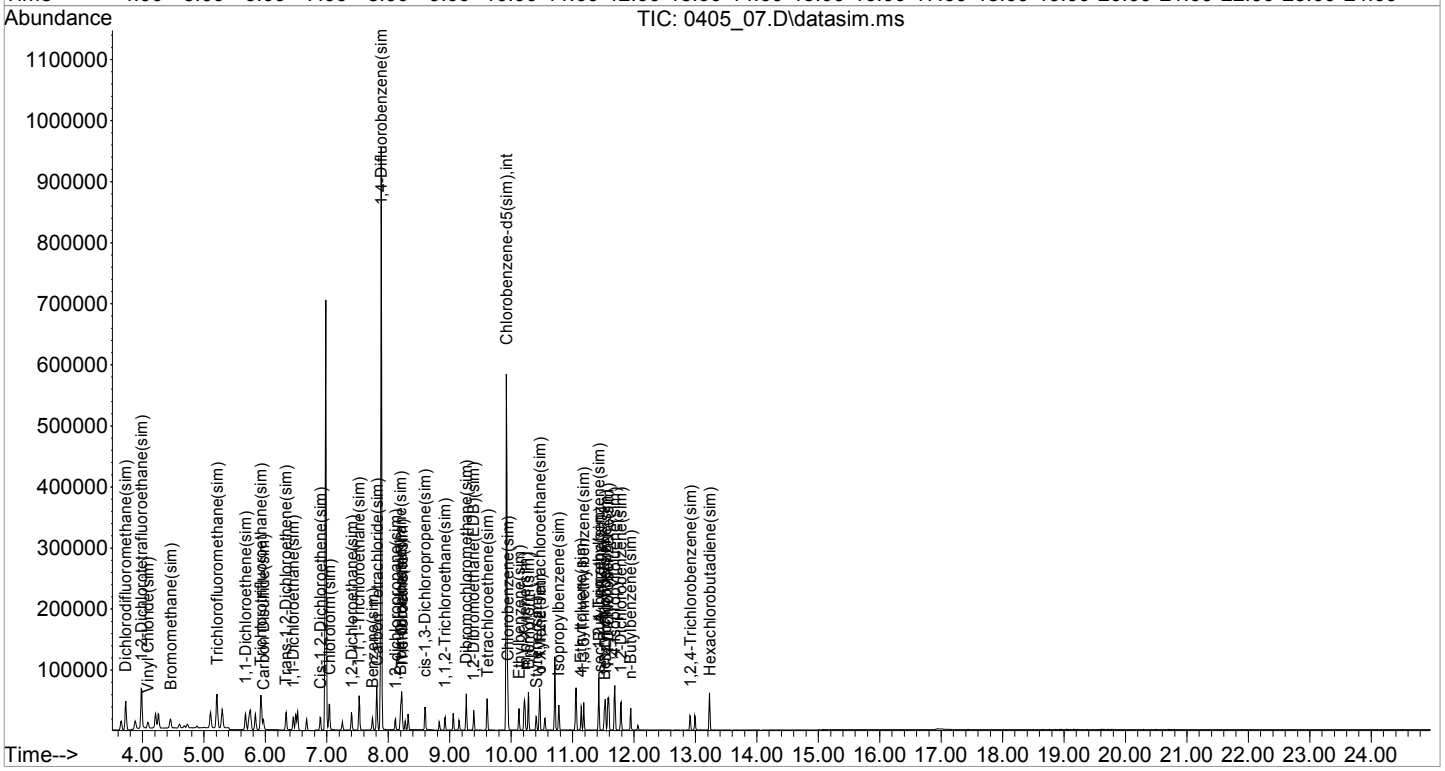
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 05 Apr 2017 02:31 pm
Operator : CORTEX\ms
Client ID : ICAL 0.5
Lab ID : 0.5ppb;air03m
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:56:47 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:53:23 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 05 Apr 2017 03:07 pm
Operator : CORTEX\ms
Client ID : ICAL 1
Lab ID : 1.0ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:13 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	200175	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	528433	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	216379	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	200175	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	622984	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	227743	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	326170	11.084	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.80%				
Target Compounds							Qvalue
2) Propylene	3.634	41	21038	1.008	ppbv		90
3) Dichlorodifluoromethane	3.707	85	71974	0.999	ppbv#		97
4) Chloromethane	3.862	50	24693	0.990	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.967	85	63074	1.021	ppbv		92
6) Vinyl Chloride	4.072	62	20644	1.027	ppbv		99
7) 1,3-Butadiene	4.194	54	18521	1.075	ppbv#		55
8) Bromomethane	4.429	94	19050	0.962	ppbv#		80
9) Chloroethane	4.583	64	8018	0.869	ppbv#		59
11) Ethanol	4.721	45	13686	1.012	ppbv#		86
12) Acetone	5.095	43	63769	1.028	ppbv#		74
13) Trichlorofluoromethane	5.200	101	87662	1.030	ppbv		99
14) Isopropylalcohol	5.289	45	64917	1.063	ppbv#		83
15) Acrylonitrile	5.429	53	18498	0.958	ppbv#		79
16) 1,1-Dichloroethene	5.661	61	42499	0.979	ppbv#		86
17) Methylene Chloride	5.744	49	42205	0.955	ppbv#		73
20) Carbon Disulfide	5.953	76	45676	1.013	ppbv		96
21) Trichlorotrifluoroethane	5.917	101	49156	1.041	ppbv		92
22) Trans-1,2-Dichloroethene	6.324	61	32491	0.961	ppbv		89
23) 1,1-Dichloroethane	6.449	63	40564	1.125	ppbv		96
24) Methyl tert-butyl ethe...	6.485	73	40044	0.967	ppbv#		80
25) Methyl Ethyl Ketone	6.668	43	39324	0.911	ppbv#		87
26) Cis-1,2-Dichloroethene	6.886	61	22194	0.939	ppbv		91
27) Hexane	6.987	57	15975	0.917	ppbv#		43
28) Chloroform	7.041	83	42996	1.022	ppbv#		88
29) Ethyl acetate	6.995	61	4029	1.002	ppbv#		16
30) Tetrahydrofuran	7.250	42	14311	0.840	ppbv#		81
31) 1,2-Dichloroethane	7.398	62	34320	0.965	ppbv		97
32) 1,1,1-Trichloroethane	7.522	97	47249	0.954	ppbv#		89
33) Benzene	7.740	78	35417	0.952	ppbv#		88
34) Carbon Tetrachloride	7.807	117	62205	1.000	ppbv		99
35) Cyclohexane	7.873	41	14184	0.914	ppbv#		38
37) 1,2-dichloropropane	8.113	63	11107	0.937	ppbv#		27
38) Bromodichloromethane	8.196	83	40724	0.927	ppbv		100
39) Trichloroethene	8.213	130	20754	0.923	ppbv		96
41) 1,4-Dioxane	8.213	88	6708	0.881	ppbv#		83
43) Heptane	8.321	43	19452	0.994	ppbv#		53
44) cis-1,3-Dichloropropene	8.594	75	18420	0.892	ppbv		93
45) 4-Methyl-2-pentanone(M...	8.602	43	28058	0.893	ppbv#		88
46) trans-1,3-Dichloropropene	8.830	75	18725	0.890	ppbv		98
47) 1,1,2-Trichloroethane	8.921	97	15556	0.941	ppbv		95
48) Toluene	9.055	91	32004	0.866	ppbv#		98
49) Dibromochloromethane	9.266	129	50184	0.937	ppbv		99

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 05 Apr 2017 03:07 pm
Operator : CORTEX\ms
Client ID : ICAL 1
Lab ID : 1.0ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:13 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.154	43	23724	0.809	ppbv#	79
51) 1,2-Dibromoethane(EDB)	9.393	107	29744	0.940	ppbv	96
52) Tetrachloroethene	9.611	166	28591	0.955	ppbv	98
54) 1,1,1,2-Tetrachloroethane	9.934	131	30437	1.159	ppbv	93
55) Chlorobenzene	9.949	112	37654	1.080	ppbv	85
56) Ethylbenzene	10.126	91	43022	0.958	ppbv	95
57) m,p-Xylene	10.215	91	74443	2.032	ppbv	99
58) Bromoform	10.282	173	54488	1.096	ppbv	98
59) Styrene	10.408	104	24225	0.985	ppbv#	91
60) 1,1,2,2-Tetrachloroethane	10.460	83	35193	1.124	ppbv	99
61) o-Xylene	10.467	91	38457	1.019	ppbv#	93
64) Isopropylbenzene	10.778	105	53338	1.061	ppbv#	96
66) 4-Ethyltoluene	11.141	105	56667	1.095	ppbv	98
67) 1,3,5-Trimethylbenzene	11.185	105	48463	1.045	ppbv	97
68) 1,2,4-Trimethylbenzene	11.430	105	47205	1.005	ppbv	96
70) Benzyl chloride	11.519	91	38094	0.926	ppbv#	96
71) 1,3-Dichlorobenzene	11.534	146	42045	1.056	ppbv	94
72) 1,4-Dichlorobenzene	11.571	146	42562	1.141	ppbv	99
73) sec-Butylbenzene	11.586	105	65095	1.087	ppbv	96
74) 4-Isopropyltoluene	11.682	119	59633	1.032	ppbv#	91
75) 1,2-Dichlorobenzene	11.786	146	43883	1.122	ppbv	98
76) n-Butylbenzene	11.949	91	45262	0.969	ppbv	97
77) 1,2,4-Trichlorobenzene	12.913	180	19323	0.807	ppbv	94
79) Hexachlorobutadiene	13.224	225	40873	1.079	ppbv	96
81] Dichlorodifluoromethan...	3.710	85	88476	0.985	ppbv	97
82] 1,2-Dichlorotetrafluor...	3.967	85	63074	0.970	ppbv	92
83] Vinyl Chloride(sim)	4.067	62	24417	0.968	ppbv	98
84] Bromomethane(sim)	4.429	94	19050	0.807	ppbv#	80
85] Trichlorofluoromethane...	5.195	101	108977	0.982	ppbv	100
86] 1,2-Dichloroethane(sim)	7.398	62	34320	0.949	ppbv	97
87] 1,1,1-Trichloroethane(...	7.524	97	62371	0.981	ppbv#	96
88] Carbon Tetrachloride(sim)	7.807	117	62298	0.989	ppbv	99
89] 1,1-Dichloroethene(sim)	5.664	61	51392	0.982	ppbv#	85
90] Carbon Disulfide(sim)	5.953	76	45736	0.966	ppbv	96
91] Trichlorotrifluoroetha...	5.920	101	59953	0.975	ppbv	100
92] Trans-1,2-Dichloroethe...	6.324	61	32491	0.886	ppbv	89
93] 1,1-Dichloroethane(sim)	6.446	63	45832	1.002	ppbv#	97
94] Cis-1,2-Dichloroethene...	6.886	61	22194	0.973	ppbv	91
95] Chloroform(sim)	7.036	83	53806	0.997	ppbv#	91
96] Benzene(sim)	7.740	78	35417	0.891	ppbv#	88
98] 1,2-dichloropropane(sim)	8.113	63	11107	0.894	ppbv#	27
99] Bromodichloromethane(sim)	8.199	85	33292	0.973	ppbv#	41
100] Trichloroethene(sim)	8.213	130	20754	0.915	ppbv	95
101] 1,4-Dioxane(sim)	8.216	88	7376	0.952	ppbv#	82
102] cis-1,3-Dichloropropen...	8.594	75	18420	1.023	ppbv#	93
103] 1,1,2-Trichloroethane(...	8.924	97	20418	0.955	ppbv	96
104] Dibromochloromethane(sim)	9.266	129	50184	0.960	ppbv	100
105] 1,2-Dibromoethane(EDB)...	9.389	107	38136	0.995	ppbv	100
106] Tetrachloroethene(sim)	9.611	166	28591	1.000	ppbv	98
108] Bromoform(sim)	10.282	173	54326	0.977	ppbv	97
109] Chlorobenzene(sim)	9.944	112	45081	0.939	ppbv#	93
110] Ethylbenzene(sim)	10.126	91	43022	0.920	ppbv#	94
111] m,p-Xylene(sim)	10.218	91	85164	2.089	ppbv	96
112] Styrene(sim)	10.408	104	24225	1.016	ppbv#	91
113] 1,1,2,2-Tetrachloroeth...	10.463	83	42110	0.998	ppbv#	97

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 05 Apr 2017 03:07 pm
Operator : CORTEX\ms
Client ID : ICAL 1
Lab ID : 1.0ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

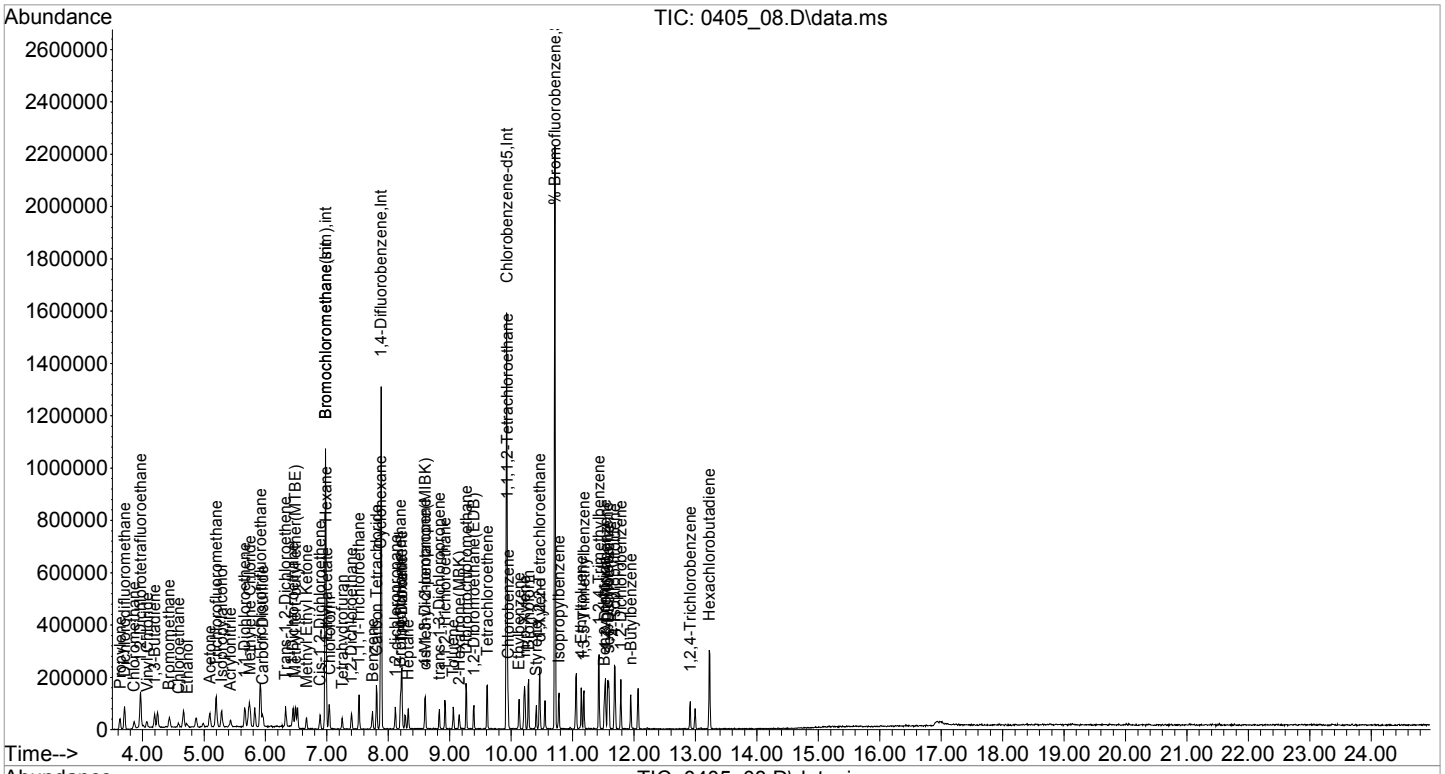
Quant Time: Apr 06 09:00:13 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

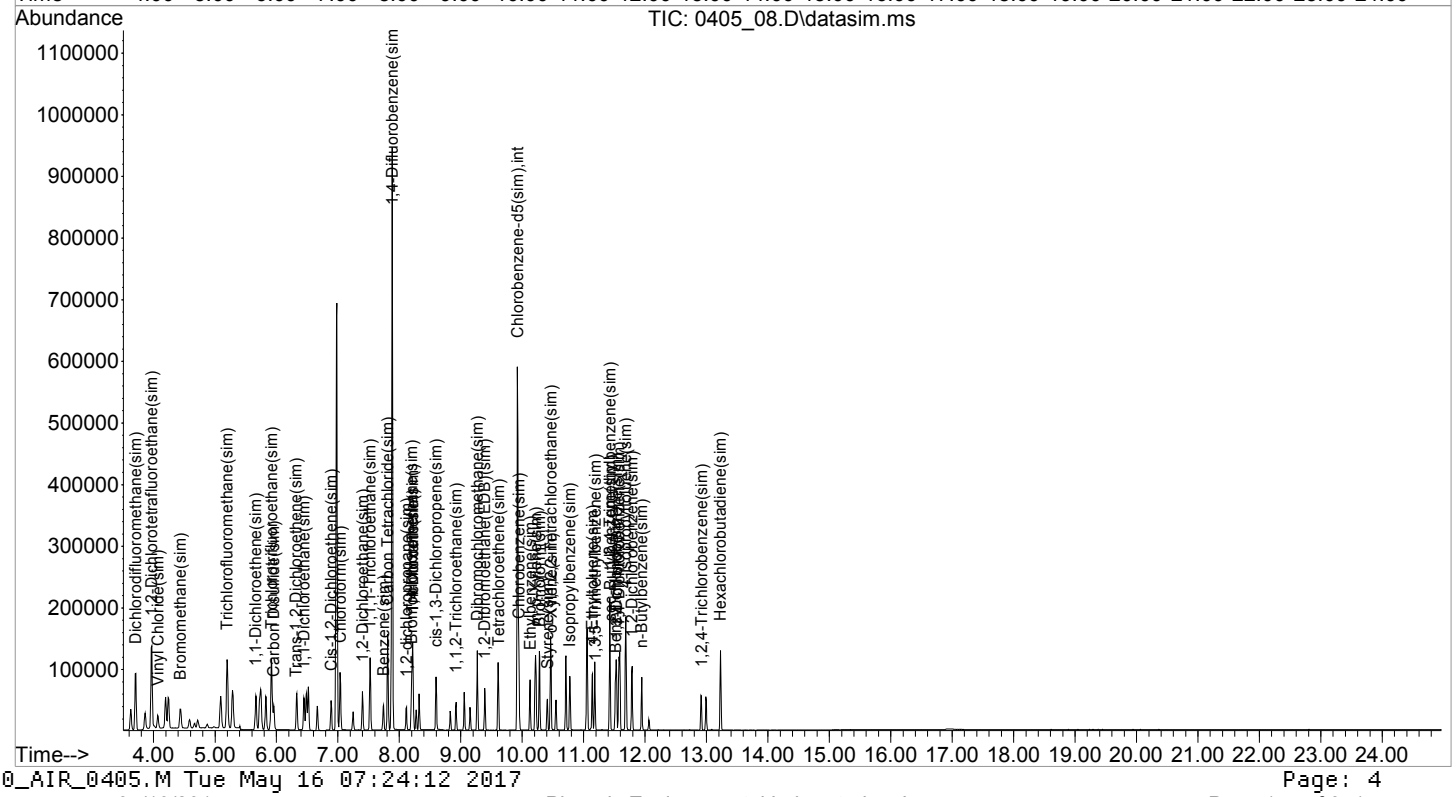
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	38457	1.054	ppbv#	90
115] Isopropylbenzene(sim)	10.773	105	57343	0.993	ppbv#	68
117] 4-Ethyltoluene(sim)	11.144	105	58833	1.092	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.185	105	48463	1.046	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.425	105	51250	1.122	ppbv	94
121] Benzyl chloride(sim)	11.514	91	43707	1.127	ppbv	97
122] 1,3-Dichlorobenzene(sim)	11.534	146	42045	1.041	ppbv	95
123] 1,4-Dichlorobenzene(sim)	11.574	146	54997	1.225	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	47203	1.162	ppbv	80
125] 4-Isopropyltoluene(sim)	11.685	119	63890	1.158	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	43883	1.104	ppbv	96
127] n-Butylbenzene(sim)	11.944	91	50234	1.105	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	19172	0.950	ppbv	94
130] Hexachlorobutadiene(sim)	13.224	225	40721	0.964	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 05 Apr 2017 03:07 pm
Operator : CORTEX\ms
Client ID : ICAL 1
Lab ID : 1.0ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:13 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_09.D
Acq On : 05 Apr 2017 03:45 pm
Operator : CORTEX\ms
Client ID : ICAL 2.5
Lab ID : 2.5ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:58:48 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	201555	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	536452	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	225639	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	201555	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	643757	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	237218	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	332864	10.863	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.60%				
Target Compounds							Qvalue
2) Propylene	3.650	41	52431	1.980	ppbv		97
3) Dichlorodifluoromethane	3.715	85	173856	2.442	ppbv#		96
4) Chloromethane	3.878	50	64400	2.388	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.975	85	148930	2.360	ppbv		94
6) Vinyl Chloride	4.080	62	48595	2.076	ppbv		96
7) 1,3-Butadiene	4.210	54	43907	2.378	ppbv#		46
8) Bromomethane	4.445	94	45714	2.100	ppbv#		88
9) Chloroethane	4.591	64	21775	2.086	ppbv#		76
11) Ethanol	4.721	45	30487	2.321	ppbv#		90
12) Acetone	5.094	43	156433	2.798	ppbv#		73
13) Trichlorofluoromethane	5.208	101	205907	2.560	ppbv		99
14) Isopropylalcohol	5.281	45	148306	2.547	ppbv#		81
15) Acrylonitrile	5.441	53	47998	2.743	ppbv		92
16) 1,1-Dichloroethene	5.673	61	104505	2.439	ppbv#		83
17) Methylene Chloride	5.750	49	94247	2.429	ppbv#		73
20) Carbon Disulfide	5.964	76	104060	2.165	ppbv		99
21) Trichlorotrifluoroethane	5.923	101	113433	2.429	ppbv#		88
22) Trans-1,2-Dichloroethene	6.334	61	79565	2.596	ppbv		90
23) 1,1-Dichloroethane	6.454	63	76671	1.919	ppbv		97
24) Methyl tert-butyl ethe...	6.485	73	92861	1.908	ppbv#		78
25) Methyl Ethyl Ketone	6.662	43	100369	1.910	ppbv#		86
26) Cis-1,2-Dichloroethene	6.894	61	53898	1.912	ppbv		91
27) Hexane	6.987	57	42511	1.982	ppbv#		46
28) Chloroform	7.041	83	102762	2.212	ppbv		90
29) Ethyl acetate	6.987	61	9169	1.793	ppbv#		1
30) Tetrahydrofuran	7.250	42	37378	2.012	ppbv#		79
31) 1,2-Dichloroethane	7.405	62	87366	2.656	ppbv		97
32) 1,1,1-Trichloroethane	7.529	97	120306	2.544	ppbv#		93
33) Benzene	7.740	78	85141	2.061	ppbv#		87
34) Carbon Tetrachloride	7.815	117	149498	2.837	ppbv		99
35) Cyclohexane	7.873	41	36116	2.578	ppbv#		63
37) 1,2-dichloropropane	8.113	63	28078	2.049	ppbv#		34
38) Bromodichloromethane	8.204	83	105671	2.470	ppbv		95
39) Trichloroethene	8.221	130	55645	2.578	ppbv		93
41) 1,4-Dioxane	8.213	88	17013	2.315	ppbv#		82
43) Heptane	8.329	43	46935	2.391	ppbv#		79
44) cis-1,3-Dichloropropene	8.594	75	48001	2.335	ppbv		92
45) 4-Methyl-2-pentanone(M...	8.602	43	76497	2.591	ppbv#		87
46) trans-1,3-Dichloropropene	8.830	75	48944	2.304	ppbv		96
47) 1,1,2-Trichloroethane	8.921	97	40607	2.400	ppbv		97
48) Toluene	9.055	91	85250	2.341	ppbv#		97
49) Dibromochloromethane	9.266	129	130726	2.699	ppbv		99

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_09.D
Acq On : 05 Apr 2017 03:45 pm
Operator : CORTEX\ms
Client ID : ICAL 2.5
Lab ID : 2.5ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:58:48 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.153	43	69950	2.676	ppbv#	81
51)	1,2-Dibromoethane(EDB)	9.393	107	76447	2.461	ppbv	97
52)	Tetrachloroethene	9.611	166	72627	2.573	ppbv	99
54)	1,1,1,2-Tetrachloroethane	9.934	131	71516	2.717	ppbv	99
55)	Chlorobenzene	9.949	112	92889	2.512	ppbv	98
56)	Ethylbenzene	10.126	91	118517	2.459	ppbv	98
57)	m,p-Xylene	10.215	91	213633	5.600	ppbv	97
58)	Bromoform	10.282	173	136157	2.827	ppbv	99
59)	Styrene	10.408	104	65546	2.531	ppbv#	89
60)	1,1,2,2-Tetrachloroethane	10.459	83	82931	2.404	ppbv	97
61)	o-Xylene	10.467	91	109801	2.749	ppbv	95
64)	Isopropylbenzene	10.778	105	141494	2.621	ppbv	96
66)	4-Ethyltoluene	11.141	105	151240	2.903	ppbv	99
67)	1,3,5-Trimethylbenzene	11.185	105	136434	2.975	ppbv	97
68)	1,2,4-Trimethylbenzene	11.430	105	131724	2.836	ppbv	95
70)	Benzyl chloride	11.519	91	118778	2.921	ppbv	96
71)	1,3-Dichlorobenzene	11.534	146	116921	3.026	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	110855	3.096	ppbv	99
73)	sec-Butylbenzene	11.593	105	175771	2.862	ppbv#	95
74)	4-Isopropyltoluene	11.682	119	170580	2.928	ppbv	93
75)	1,2-Dichlorobenzene	11.786	146	106890	2.895	ppbv	98
76)	n-Butylbenzene	11.949	91	135924	2.814	ppbv	95
77)	1,2,4-Trichlorobenzene	12.913	180	67100	3.373	ppbv	99
79)	Hexachlorobutadiene	13.231	225	109208	3.321	ppbv	98
81]	Dichlorodifluoromethan...	3.718	85	215361	2.292	ppbv	97
82]	1,2-Dichlorotetrafluor...	3.975	85	148947	2.202	ppbv	94
83]	Vinyl Chloride(sim)	4.083	62	58067	2.062	ppbv	98
84]	Bromomethane(sim)	4.445	94	45714	1.774	ppbv#	88
85]	Trichlorofluoromethane...	5.211	101	261105	2.520	ppbv	99
86]	1,2-Dichloroethane(sim)	7.405	62	87366	2.514	ppbv	97
87]	1,1,1-Trichloroethane(...	7.524	97	152714	2.503	ppbv#	96
88]	Carbon Tetrachloride(sim)	7.815	117	149498	2.712	ppbv	99
89]	1,1-Dichloroethene(sim)	5.670	61	124914	2.420	ppbv#	85
90]	Carbon Disulfide(sim)	5.964	76	103992	1.934	ppbv	99
91]	Trichlorotrifluoroetha...	5.926	101	142608	2.321	ppbv	100
92]	Trans-1,2-Dichloroethe...	6.334	61	79565	2.402	ppbv	90
93]	1,1-Dichloroethane(sim)	6.451	63	93017	1.916	ppbv	96
94]	Cis-1,2-Dichloroethene...	6.894	61	53898	1.808	ppbv	91
95]	Chloroform(sim)	7.044	83	129376	2.206	ppbv#	91
96]	Benzene(sim)	7.740	78	85141	2.077	ppbv#	87
98]	1,2-dichloropropane(sim)	8.113	63	28078	1.820	ppbv#	34
99]	Bromodichloromethane(sim)	8.199	85	84097m	2.422	ppbv	
100]	Trichloroethene(sim)	8.221	130	55645	2.192	ppbv	95
101]	1,4-Dioxane(sim)	8.216	88	18934	2.370	ppbv#	82
102]	cis-1,3-Dichloropropen...	8.594	75	47843	2.308	ppbv#	92
103]	1,1,2-Trichloroethane(...	8.924	97	51218	2.256	ppbv	95
104]	Dibromochloromethane(sim)	9.266	129	130726	2.577	ppbv	99
105]	1,2-Dibromoethane(EDB)...	9.389	107	97357	2.450	ppbv	100
106]	Tetrachloroethene(sim)	9.611	166	72627	2.260	ppbv	99
108]	Bromoform(sim)	10.282	173	136157	2.454	ppbv	99
109]	Chlorobenzene(sim)	9.952	112	112342	2.206	ppbv#	97
110]	Ethylbenzene(sim)	10.126	91	118517	2.410	ppbv	97
111]	m,p-Xylene(sim)	10.218	91	236575	5.457	ppbv	96
112]	Styrene(sim)	10.408	104	65546	2.758	ppbv#	89
113]	1,1,2,2-Tetrachloroeth...	10.462	83	103764	2.162	ppbv#	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_09.D
Acq On : 05 Apr 2017 03:45 pm
Operator : CORTEX\ms
Client ID : ICAL 2.5
Lab ID : 2.5ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:58:48 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration

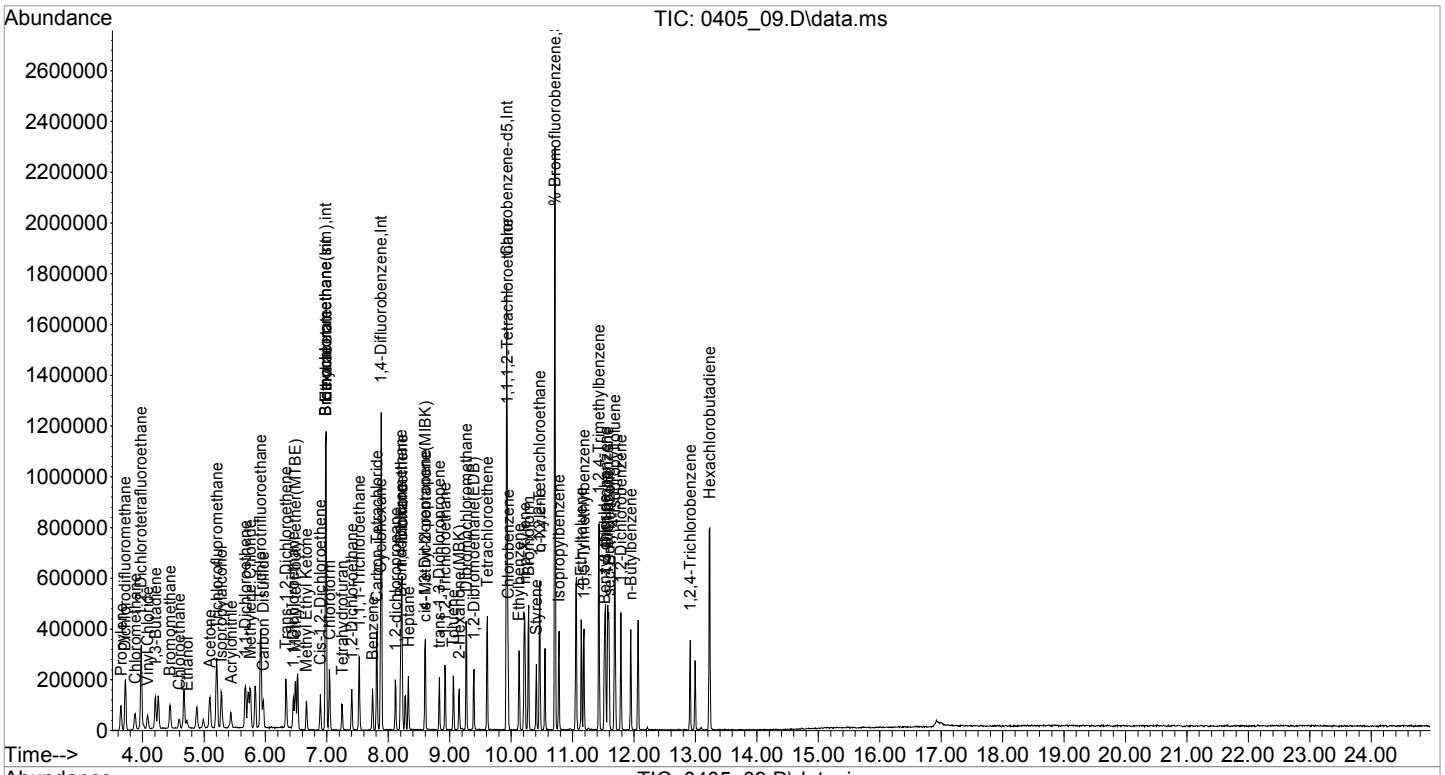
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	109801	2.680	ppbv	97
115] Isopropylbenzene(sim)	10.773	105	150986	2.464	ppbv#	68
117] 4-Ethyltoluene(sim)	11.144	105	164033	3.024	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.185	105	136434	2.945	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.425	105	142721	3.133	ppbv#	93
121] Benzyl chloride(sim)	11.514	91	128795	3.536	ppbv	97
122] 1,3-Dichlorobenzene(sim)	11.534	146	116921	2.828	ppbv	100
123] 1,4-Dichlorobenzene(sim)	11.574	146	144989	3.409	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	131602	3.118	ppbv	82
125] 4-Isopropyltoluene(sim)	11.685	119	178381	3.276	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	106805	2.654	ppbv	97
127] n-Butylbenzene(sim)	11.944	91	151279	3.321	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	67100	3.906	ppbv	98
130] Hexachlorobutadiene(sim)	13.231	225	109208	2.748	ppbv	98

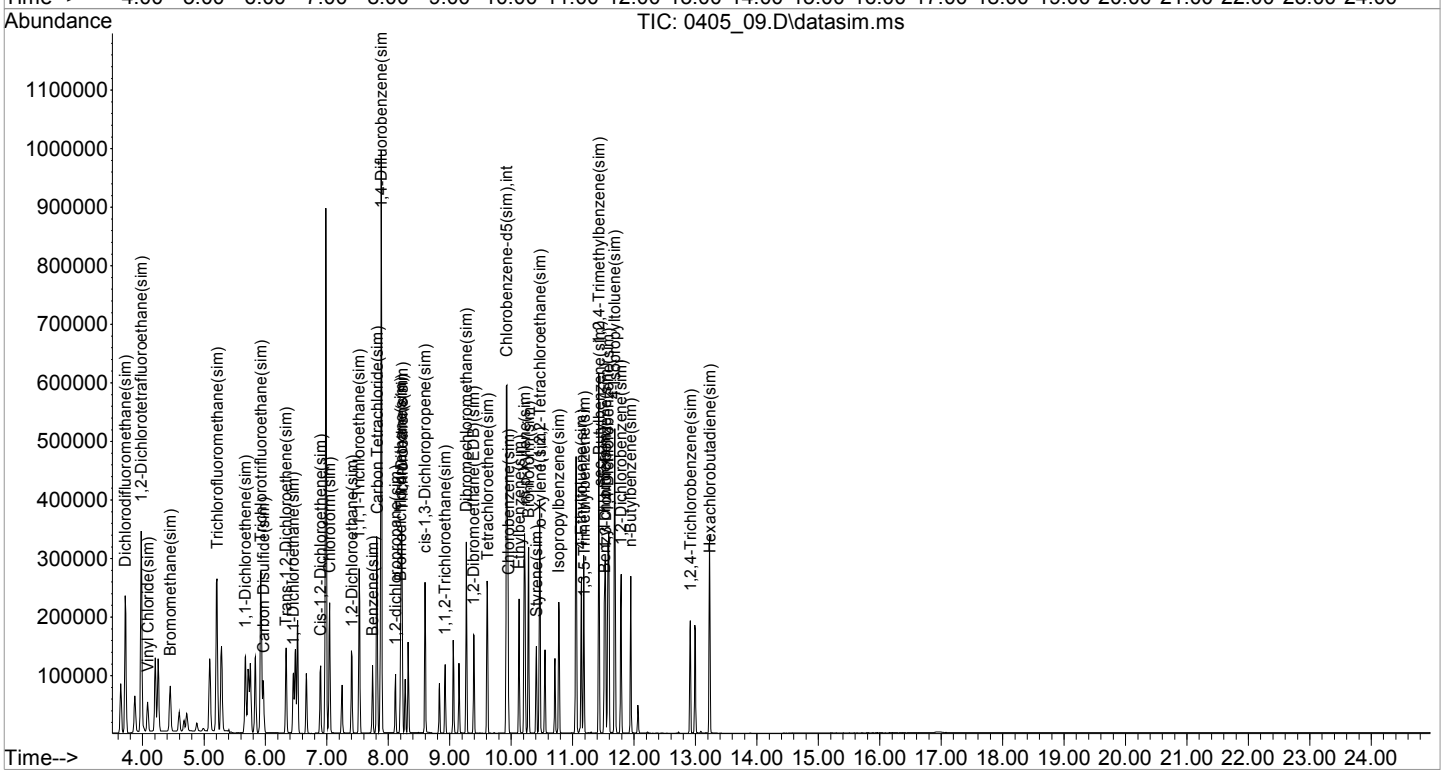
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_09.D
Acq On : 05 Apr 2017 03:45 pm
Operator : CORTEX\ms
Client ID : ICAL 2.5
Lab ID : 2.5ppb;air03y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:58:48 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_10.D
Acq On : 05 Apr 2017 04:22 pm
Operator : CORTEX\ms
Client ID : ICAL 5
Lab ID : 5.0ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:00 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:41:47 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.972	130	198155	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	535009	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	234280	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.972	130	198155	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	638335	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	249158	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.712	95	334892	9.690	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.90%				
Target Compounds							Qvalue
2) Propylene	3.602	41	116948	5.672	ppbv		94
3) Dichlorodifluoromethane	3.667	85	384072	5.618	ppbv#		96
4) Chloromethane	3.829	50	138662	5.475	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.935	85	324291	5.537	ppbv		94
6) Vinyl Chloride	4.032	62	107523	5.627	ppbv		98
7) 1,3-Butadiene	4.162	54	91846	5.319	ppbv#		41
8) Bromomethane	4.405	94	100338	5.581	ppbv#		91
9) Chloroethane	4.559	64	48034	5.609	ppbv#		73
11) Ethanol	4.697	45	64719	5.398	ppbv		94
12) Acetone	5.062	43	319887	5.200	ppbv#		73
13) Trichlorofluoromethane	5.176	101	454775	5.616	ppbv		99
14) Isopropylalcohol	5.265	45	306221	5.251	ppbv#		84
15) Acrylonitrile	5.417	53	65132	3.451	ppbv#		86
16) 1,1-Dichloroethene	5.649	61	233327	5.677	ppbv#		84
17) Methylene Chloride	5.733	49	204955	5.530	ppbv#		73
20) Carbon Disulfide	5.941	76	233944	5.717	ppbv		98
21) Trichlorotrifluoroethane	5.899	101	246025	5.515	ppbv#		89
22) Trans-1,2-Dichloroethene	6.319	61	175116	5.597	ppbv		90
23) 1,1-Dichloroethane	6.439	63	211566	7.017	ppbv		96
24) Methyl tert-butyl ethe...	6.470	73	282781	7.744	ppbv#		86
25) Methyl Ethyl Ketone	6.652	43	236665	5.996	ppbv#		87
26) Cis-1,2-Dichloroethene	6.886	61	125887	5.939	ppbv		92
27) Hexane	6.979	57	99859	5.973	ppbv#		46
28) Chloroform	7.034	83	226264	5.599	ppbv		90
29) Ethyl acetate	6.979	61	22460	6.229	ppbv#		6
30) Tetrahydrofuran	7.235	42	90542	6.160	ppbv#		76
31) 1,2-Dichloroethane	7.398	62	190037	5.531	ppbv		98
32) 1,1,1-Trichloroethane	7.522	97	266073	5.624	ppbv#		92
33) Benzene	7.740	78	196023	5.855	ppbv#		87
34) Carbon Tetrachloride	7.807	117	331977	5.647	ppbv		99
35) Cyclohexane	7.865	41	83944	5.910	ppbv#		54
37) 1,2-dichloropropane	8.114	63	63939	5.708	ppbv#		29
38) Bromodichloromethane	8.196	83	238644	5.661	ppbv		98
39) Trichloroethene	8.213	130	124324	5.601	ppbv		94
41) 1,4-Dioxane	8.205	88	40221	5.926	ppbv#		86
43) Heptane	8.321	43	115601	6.174	ppbv#		75
44) cis-1,3-Dichloropropene	8.594	75	116778	6.098	ppbv		97
45) 4-Methyl-2-pentanone(M...	8.594	43	184107	6.033	ppbv#		88
46) trans-1,3-Dichloropropene	8.830	75	118408	6.064	ppbv		98
47) 1,1,2-Trichloroethane	8.922	97	88537	5.466	ppbv		99
48) Toluene	9.055	91	206257	6.065	ppbv		95
49) Dibromochloromethane	9.266	129	287047	5.504	ppbv		99

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_10.D
Acq On : 05 Apr 2017 04:22 pm
Operator : CORTEX\ms
Client ID : ICAL 5
Lab ID : 5.0ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:00 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:41:47 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.147	43	175252	6.280	ppbv#	80
51) 1,2-Dibromoethane(EDB)	9.393	107	174425	5.720	ppbv	100
52) Tetrachloroethene	9.611	166	161010	5.557	ppbv	96
54) 1,1,1,2-Tetrachloroethane	9.934	131	160069	5.389	ppbv	97
55) Chlorobenzene	9.949	112	203928	5.286	ppbv	99
56) Ethylbenzene	10.127	91	283882	5.767	ppbv	96
57) m,p-Xylene	10.216	91	504117	11.363	ppbv	96
58) Bromoform	10.282	173	302182	5.344	ppbv	100
59) Styrene	10.408	104	162260	5.961	ppbv#	88
60) 1,1,2,2-Tetrachloroethane	10.460	83	187326	5.439	ppbv	97
61) o-Xylene	10.467	91	251433	5.514	ppbv	96
64) Isopropylbenzene	10.778	105	316578	5.387	ppbv	97
66) 4-Ethyltoluene	11.141	105	356762	5.680	ppbv	98
67) 1,3,5-Trimethylbenzene	11.178	105	305367	5.389	ppbv	96
68) 1,2,4-Trimethylbenzene	11.430	105	318109	5.815	ppbv	95
70) Benzyl chloride	11.519	91	279655	5.669	ppbv	98
71) 1,3-Dichlorobenzene	11.534	146	257046	5.293	ppbv	98
72) 1,4-Dichlorobenzene	11.571	146	253511	5.506	ppbv	99
73) sec-Butylbenzene	11.586	105	393821	5.395	ppbv#	95
74) 4-Isopropyltoluene	11.682	119	399166	5.634	ppbv	93
75) 1,2-Dichlorobenzene	11.786	146	247233	5.569	ppbv	99
76) n-Butylbenzene	11.949	91	318009	5.633	ppbv	96
77) 1,2,4-Trichlorobenzene	12.913	180	160030	5.742	ppbv	97
79) Hexachlorobutadiene	13.224	225	228043	5.028	ppbv	98
81] Dichlorodifluoromethan...	3.670	85	478205	5.646	ppbv	97
82] 1,2-Dichlorotetrafluor...	3.935	85	324254	5.536	ppbv	94
83] Vinyl Chloride(sim)	4.035	62	127017	5.562	ppbv	98
84] Bromomethane(sim)	4.405	94	100338	5.581	ppbv#	91
85] Trichlorofluoromethane...	5.179	101	569195	5.543	ppbv	100
86] 1,2-Dichloroethane(sim)	7.398	62	190037	5.531	ppbv	98
87] 1,1,1-Trichloroethane(...	7.525	97	338985	5.645	ppbv#	96
88] Carbon Tetrachloride(sim)	7.807	117	331977	5.647	ppbv	99
89] 1,1-Dichloroethene(sim)	5.646	61	277738	5.654	ppbv#	85
90] Carbon Disulfide(sim)	5.941	76	233944	5.721	ppbv	98
91] Trichlorotrifluoroetha...	5.902	101	310834	5.543	ppbv	99
92] Trans-1,2-Dichloroethe...	6.319	61	175116	5.597	ppbv	90
93] 1,1-Dichloroethane(sim)	6.441	63	245463	6.710	ppbv	97
94] Cis-1,2-Dichloroethene...	6.886	61	125887	5.939	ppbv	92
95] Chloroform(sim)	7.037	83	284075	5.584	ppbv#	91
96] Benzene(sim)	7.740	78	196023	5.855	ppbv#	87
98] 1,2-dichloropropane(sim)	8.114	63	63939	5.741	ppbv#	29
99] Bromodichloromethane(sim)	8.116	85	621	5.931	ppbv#	54
100] Trichloroethene(sim)	8.213	130	124324	5.633	ppbv	96
101] 1,4-Dioxane(sim)	8.208	88	45398	6.045	ppbv#	85
102] cis-1,3-Dichloropropen...	8.594	75	116778	6.154	ppbv#	97
103] 1,1,2-Trichloroethane(...	8.925	97	113334	5.579	ppbv	96
104] Dibromochloromethane(sim)	9.266	129	286971	5.535	ppbv	99
105] 1,2-Dibromoethane(EDB)...	9.389	107	222548	5.763	ppbv	100
106] Tetrachloroethene(sim)	9.611	166	161098	5.592	ppbv	97
108] Bromoform(sim)	10.282	173	302182	5.283	ppbv	100
109] Chlorobenzene(sim)	9.945	112	247852	5.251	ppbv#	94
110] Ethylbenzene(sim)	10.127	91	283882	5.701	ppbv	95
111] m,p-Xylene(sim)	10.218	91	552457	11.117	ppbv	95
112] Styrene(sim)	10.408	104	162260	5.892	ppbv#	88
113] 1,1,2,2-Tetrachloroeth...	10.463	83	230900	5.297	ppbv#	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_10.D
Acq On : 05 Apr 2017 04:22 pm
Operator : CORTEX\ms
Client ID : ICAL 5
Lab ID : 5.0ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

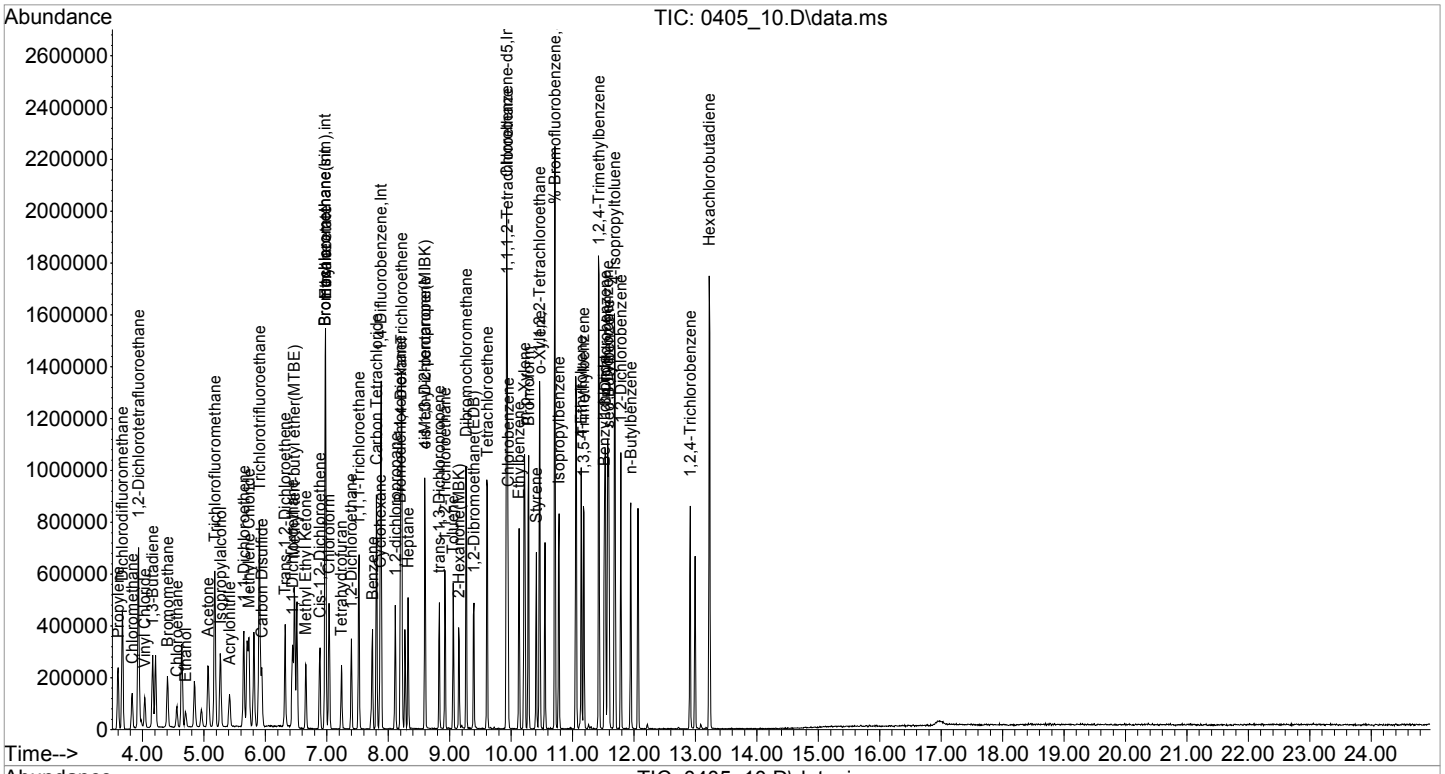
Quant Time: Apr 06 08:42:00 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:41:47 2017
Response via : Initial Calibration

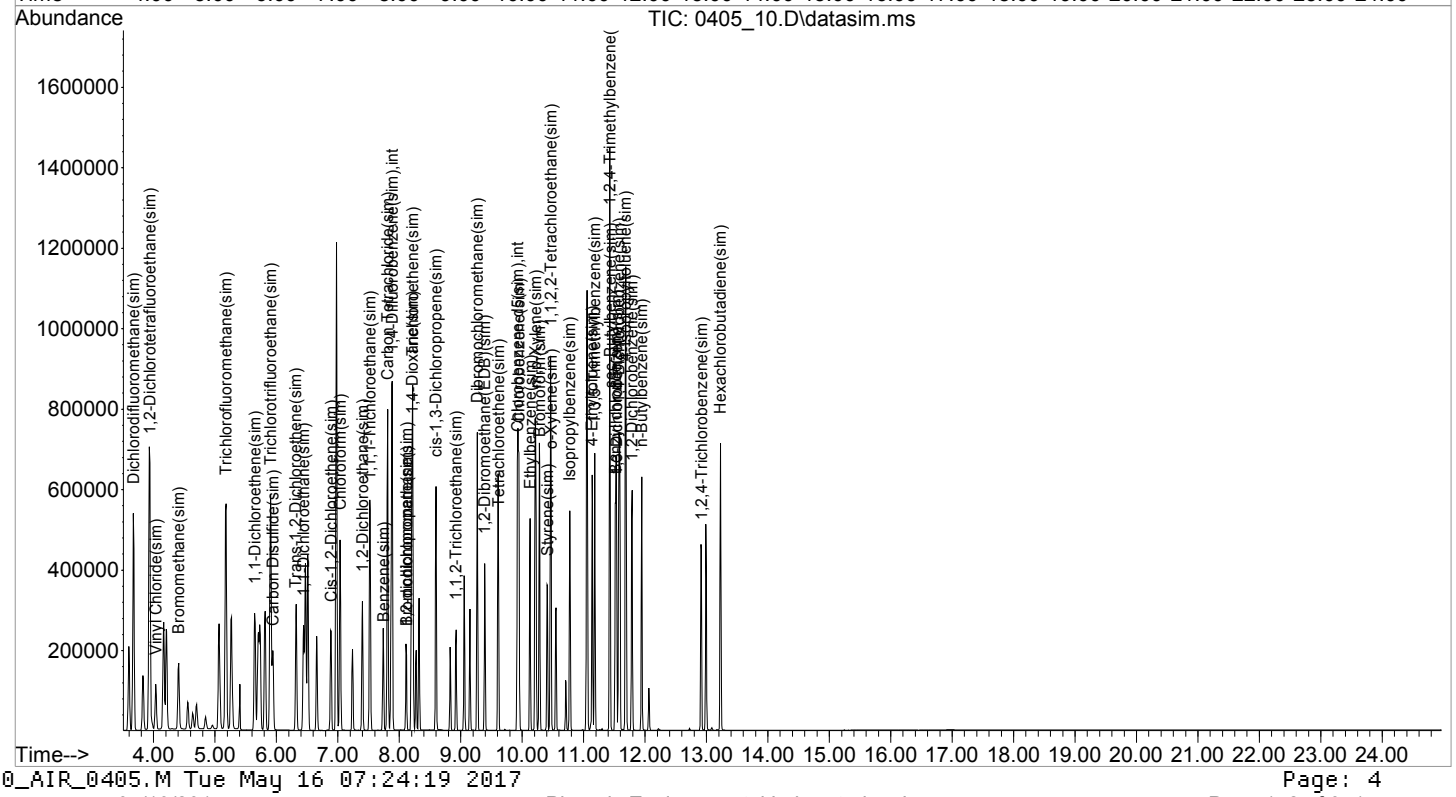
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	251433	5.450	ppbv	98
115] Isopropylbenzene(sim)	10.774	105	345643	5.449	ppbv#	68
117] 4-Ethyltoluene(sim)	11.137	105	383118	5.559	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.178	105	305367	5.327	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.426	105	342194	5.707	ppbv#	93
121] Benzyl chloride(sim)	11.515	91	311515	5.757	ppbv	97
122] 1,3-Dichlorobenzene(sim)	11.534	146	257046	5.233	ppbv	98
123] 1,4-Dichlorobenzene(sim)	11.574	146	329734	5.413	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	317469	5.742	ppbv	82
125] 4-Isopropyltoluene(sim)	11.678	119	413161	5.513	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	247233	5.510	ppbv	99
127] n-Butylbenzene(sim)	11.945	91	350154	5.509	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	160030	5.677	ppbv	97
130] Hexachlorobutadiene(sim)	13.224	225	227825	4.965	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_10.D
Acq On : 05 Apr 2017 04:22 pm
Operator : CORTEX\ms
Client ID : ICAL 5
Lab ID : 5.0ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:00 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:41:47 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_11.D
Acq On : 05 Apr 2017 04:58 pm
Operator : CORTEX\ms
Client ID : ICAL 10
Lab ID : 10ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:58 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.987	130	200144	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.890	114	538896	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	254110	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.987	130	200144	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	644606	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	270526	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.712	95	333919	9.662	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.60%				
Target Compounds							Qvalue
2) Propylene	3.627	41	224954	10.785	ppbv		92
3) Dichlorodifluoromethane	3.708	85	748804	10.400	ppbv#		96
4) Chloromethane	3.862	50	247222	9.917	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.967	85	626128	10.132	ppbv		95
6) Vinyl Chloride	4.073	62	200435	9.973	ppbv		95
7) 1,3-Butadiene	4.194	54	168379	9.770	ppbv#		36
8) Bromomethane	4.438	94	192313	9.716	ppbv#		92
9) Chloroethane	4.592	64	87961	9.533	ppbv#		73
11) Ethanol	4.722	45	126286	9.342	ppbv		96
12) Acetone	5.087	43	616586	9.941	ppbv#		73
13) Trichlorofluoromethane	5.200	101	867048	10.187	ppbv		99
14) Isopropylalcohol	5.281	45	586317	9.599	ppbv#		86
15) Acrylonitrile	5.435	53	196742	10.187	ppbv		85
16) 1,1-Dichloroethene	5.667	61	452499	10.424	ppbv#		83
17) Methylene Chloride	5.751	49	384252	8.697	ppbv#		74
20) Carbon Disulfide	5.959	76	456631	10.133	ppbv		98
21) Trichlorotrifluoroethane	5.917	101	469565	9.943	ppbv#		90
22) Trans-1,2-Dichloroethene	6.334	61	342058	10.122	ppbv		89
23) 1,1-Dichloroethane	6.454	63	350517	9.723	ppbv		97
24) Methyl tert-butyl ethe...	6.480	73	432421	10.441	ppbv#		82
25) Methyl Ethyl Ketone	6.663	43	473402	10.965	ppbv#		86
26) Cis-1,2-Dichloroethene	6.894	61	251810	10.655	ppbv		91
27) Hexane	6.987	57	198705	11.404	ppbv#		52
28) Chloroform	7.049	83	437646	10.406	ppbv		89
29) Ethyl acetate	6.987	61	45344	11.282	ppbv#		5
30) Tetrahydrofuran	7.243	42	186793	10.972	ppbv#		79
31) 1,2-Dichloroethane	7.406	62	376094	10.574	ppbv		99
32) 1,1,1-Trichloroethane	7.530	97	518728	10.475	ppbv#		94
33) Benzene	7.740	78	383209	10.306	ppbv#		86
34) Carbon Tetrachloride	7.815	117	644228	10.356	ppbv		100
35) Cyclohexane	7.873	41	166702	10.738	ppbv#		52
37) 1,2-dichloropropane	8.114	63	127383	10.534	ppbv#		36
38) Bromodichloromethane	8.205	83	470448	10.499	ppbv		98
39) Trichloroethene	8.221	130	240437	10.482	ppbv		95
41) 1,4-Dioxane	8.205	88	83560	10.758	ppbv#		85
43) Heptane	8.329	43	220389	11.042	ppbv#		77
44) cis-1,3-Dichloropropene	8.594	75	235540	11.191	ppbv		97
45) 4-Methyl-2-pentanone(M...	8.594	43	375583	11.726	ppbv#		87
46) trans-1,3-Dichloropropene	8.830	75	245323	11.438	ppbv		97
47) 1,1,2-Trichloroethane	8.922	97	174870	10.375	ppbv		97
48) Toluene	9.062	91	418713	11.112	ppbv		97
49) Dibromochloromethane	9.267	129	572147	10.481	ppbv		99

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_11.D
Acq On : 05 Apr 2017 04:58 pm
Operator : CORTEX\ms
Client ID : ICAL 10
Lab ID : 10ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:58 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.147	43	362342	12.122	ppbv#	79
51)	1,2-Dibromoethane(EDB)	9.393	107	345920	10.716	ppbv	100
52)	Tetrachloroethene	9.611	166	322887	10.577	ppbv	97
54)	1,1,1,2-Tetrachloroethane	9.934	131	314904	10.207	ppbv	98
55)	Chlorobenzene	9.949	112	410405	10.027	ppbv	97
56)	Ethylbenzene	10.127	91	601081	11.401	ppbv	99
57)	m,p-Xylene	10.216	91	1000144	23.244	ppbv	96
58)	Bromoform	10.282	173	597235	10.230	ppbv	100
59)	Styrene	10.408	104	335240	11.608	ppbv#	87
60)	1,1,2,2-Tetrachloroethane	10.460	83	362527	9.858	ppbv	95
61)	o-Xylene	10.467	91	502583	11.336	ppbv	96
64)	Isopropylbenzene	10.778	105	646425	10.954	ppbv#	96
66)	4-Ethyltoluene	11.141	105	706724	11.627	ppbv	98
67)	1,3,5-Trimethylbenzene	11.186	105	614743	11.288	ppbv	96
68)	1,2,4-Trimethylbenzene	11.430	105	641862	11.639	ppbv#	95
70)	Benzyl chloride	11.519	91	573813	11.881	ppbv	97
71)	1,3-Dichlorobenzene	11.534	146	518448	11.087	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	491465	11.220	ppbv	99
73)	sec-Butylbenzene	11.586	105	810589	11.522	ppbv#	95
74)	4-Isopropyltoluene	11.682	119	806316	11.881	ppbv	94
75)	1,2-Dichlorobenzene	11.786	146	492759	10.731	ppbv	100
76)	n-Butylbenzene	11.949	91	679843	12.399	ppbv	96
77)	1,2,4-Trichlorobenzene	12.913	180	384806	13.685	ppbv	99
79)	Hexachlorobutadiene	13.232	225	457985	10.292	ppbv	98
81]	Dichlorodifluoromethan...	3.703	85	921110	10.259	ppbv	97
82]	1,2-Dichlorotetrafluor...	3.967	85	626128	9.632	ppbv	95
83]	Vinyl Chloride(sim)	4.068	62	242294	9.603	ppbv	97
84]	Bromomethane(sim)	4.438	94	192210	8.147	ppbv#	92
85]	Trichlorofluoromethane...	5.203	101	1076158	9.696	ppbv	100
86]	1,2-Dichloroethane(sim)	7.406	62	376094	10.397	ppbv	99
87]	1,1,1-Trichloroethane(...	7.525	97	647997	10.193	ppbv#	95
88]	Carbon Tetrachloride(sim)	7.815	117	644228	10.231	ppbv	100
89]	1,1-Dichloroethene(sim)	5.670	61	535820	10.242	ppbv#	85
90]	Carbon Disulfide(sim)	5.959	76	456631	9.647	ppbv	98
91]	Trichlorotrifluoroetha...	5.920	101	591255	9.620	ppbv	99
92]	Trans-1,2-Dichloroethe...	6.334	61	342252	9.330	ppbv	89
93]	1,1-Dichloroethane(sim)	6.457	63	413336	9.036	ppbv	97
94]	Cis-1,2-Dichloroethene...	6.894	61	251810	11.046	ppbv	91
95]	Chloroform(sim)	7.044	83	545265	10.109	ppbv#	91
96]	Benzene(sim)	7.740	78	383209	9.639	ppbv#	86
98]	1,2-dichloropropane(sim)	8.114	63	127383	9.914	ppbv#	36
99]	Bromodichloromethane(sim)	8.208	85	371820	10.504	ppbv#	41
100]	Trichloroethene(sim)	8.221	130	240437	10.249	ppbv	97
101]	1,4-Dioxane(sim)	8.208	88	92007	11.482	ppbv#	86
102]	cis-1,3-Dichloropropen...	8.594	75	235540	12.645	ppbv	97
103]	1,1,2-Trichloroethane(...	8.925	97	223896	10.117	ppbv	95
104]	Dibromochloromethane(sim)	9.267	129	572147	10.575	ppbv	99
105]	1,2-Dibromoethane(EDB)...	9.396	107	442714	11.167	ppbv	100
106]	Tetrachloroethene(sim)	9.611	166	322836	10.915	ppbv	97
108]	Bromoform(sim)	10.282	173	597457	9.049	ppbv	99
109]	Chlorobenzene(sim)	9.952	112	486767	8.536	ppbv#	93
110]	Ethylbenzene(sim)	10.127	91	601081	10.820	ppbv	99
111]	m,p-Xylene(sim)	10.219	91	1097502	22.663	ppbv	95
112]	Styrene(sim)	10.408	104	335240	11.839	ppbv#	88
113]	1,1,2,2-Tetrachloroeth...	10.463	83	451786	9.015	ppbv#	97

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_11.D
Acq On : 05 Apr 2017 04:58 pm
Operator : CORTEX\ms
Client ID : ICAL 10
Lab ID : 10ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

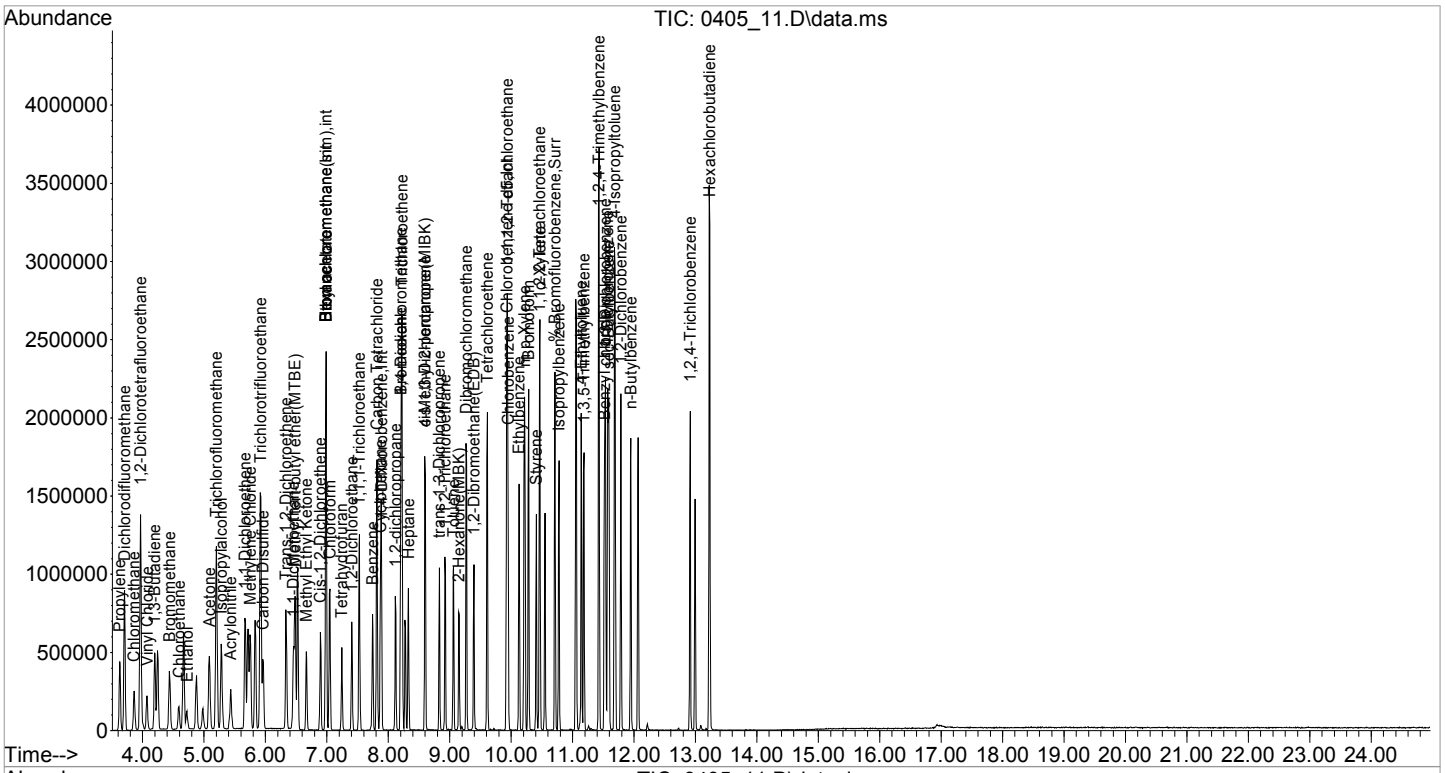
Quant Time: Apr 06 09:00:58 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

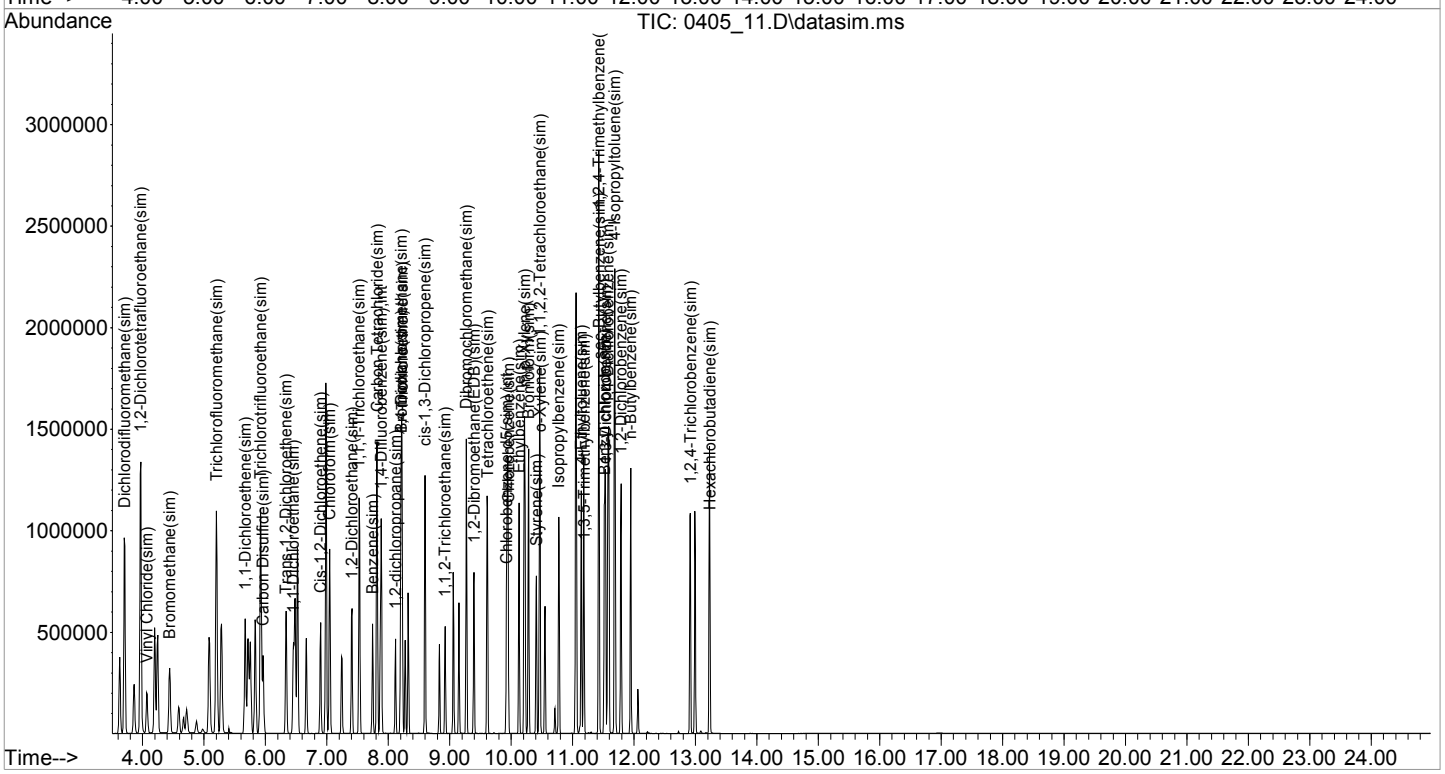
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	502583	11.596	ppbv	98
115] Isopropylbenzene(sim)	10.774	105	695922	10.145	ppbv#	68
117] 4-Ethyltoluene(sim)	11.144	105	758843	11.860	ppbv	97
118] 1,3,5-Trimethylbenzene...	11.186	105	614743	11.172	ppbv	99
119] 1,2,4-Trimethylbenzene...	11.426	105	687023	12.659	ppbv#	92
121] Benzyl chloride(sim)	11.515	91	641339	13.919	ppbv	96
122] 1,3-Dichlorobenzene(sim)	11.534	146	518448	10.804	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.574	146	653697	12.259	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	641338	13.286	ppbv	81
125] 4-Isopropyltoluene(sim)	11.685	119	838105	12.786	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	492759	10.440	ppbv	99
127] n-Butylbenzene(sim)	11.945	91	741767	13.738	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	384806	16.056	ppbv	99
130] Hexachlorobutadiene(sim)	13.232	225	457943	9.122	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_11.D
Acq On : 05 Apr 2017 04:58 pm
Operator : CORTEX\ms
Client ID : ICAL 10
Lab ID : 10ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 09:00:58 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_12.D
Acq On : 05 Apr 2017 05:37 pm
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:49 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:32 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.987	130	203657	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.890	114	540629	10.000	ng	0.00
53) Chlorobenzene-d5	9.927	82	308508	10.000	ng	0.00
80) Bromochloromethane(sim)	6.987	130	203657	10.000	ng	0.00
97) 1,4-Difluorobenzene(sim)	7.893	114	653069	10.000	ng	0.00
107) Chlorobenzene-d5(sim)	9.930	82	336052	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.712	95	349838	8.064	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 80.60%			
Target Compounds						Qvalue
2) Propylene	3.635	41	532670	23.459	ppbv	94
3) Dichlorodifluoromethane	3.708	85	1819623	24.218	ppbv#	97
4) Chloromethane	3.870	50	566010	21.309	ppbv#	1
5) 1,2-Dichlorotetrafluor...	3.967	85	1509431	23.763	ppbv	97
6) Vinyl Chloride	4.073	62	475239	22.944	ppbv	97
7) 1,3-Butadiene	4.202	54	406306	22.674	ppbv#	42
8) Bromomethane	4.446	94	464160	23.734	ppbv#	91
9) Chloroethane	4.592	64	213266	23.160	ppbv#	76
11) Ethanol	4.722	45	279582	21.880	ppbv	95
12) Acetone	5.087	43	1463663	22.903	ppbv#	72
13) Trichlorofluoromethane	5.208	101	2050522	23.220	ppbv	99
14) Isopropylalcohol	5.289	45	1407845	23.138	ppbv#	88
15) Acrylonitrile	5.441	53	491633	27.930	ppbv#	91
16) 1,1-Dichloroethene	5.673	61	1094470	24.100	ppbv#	82
17) Methylene Chloride	5.756	49	908321	22.838	ppbv#	74
20) Carbon Disulfide	5.965	76	1082695	23.776	ppbv	100
21) Trichlorotrifluoroethane	5.923	101	1140202	23.722	ppbv#	90
22) Trans-1,2-Dichloroethene	6.339	61	836779	24.382	ppbv	88
23) 1,1-Dichloroethane	6.459	63	868747	23.662	ppbv	97
24) Methyl tert-butyl ethe...	6.480	73	1096267	23.549	ppbv#	84
25) Methyl Ethyl Ketone	6.668	43	1161948	25.356	ppbv#	86
26) Cis-1,2-Dichloroethene	6.902	61	642571	26.305	ppbv	90
27) Hexane	6.987	57	487623	25.254	ppbv#	52
28) Chloroform	7.049	83	1043509	23.613	ppbv	89
29) Ethyl acetate	6.987	61	105174	24.390	ppbv#	1
30) Tetrahydrofuran	7.243	42	466143	26.523	ppbv#	76
31) 1,2-Dichloroethane	7.406	62	914550	24.357	ppbv	99
32) 1,1,1-Trichloroethane	7.530	97	1274813	24.500	ppbv#	94
33) Benzene	7.749	78	904470	23.865	ppbv#	87
34) Carbon Tetrachloride	7.815	117	1584312	24.473	ppbv	99
35) Cyclohexane	7.873	41	407795	25.062	ppbv#	51
37) 1,2-dichloropropane	8.122	63	320916	26.006	ppbv#	36
38) Bromodichloromethane	8.205	83	1180726	25.664	ppbv	99
39) Trichloroethene	8.221	130	598782	25.061	ppbv	97
41) 1,4-Dioxane	8.205	88	212863	27.325	ppbv#	86
43) Heptane	8.329	43	560379	26.107	ppbv#	76
44) cis-1,3-Dichloropropene	8.603	75	602353	27.141	ppbv	97
45) 4-Methyl-2-pentanone(M...	8.594	43	964049	27.356	ppbv#	87
46) trans-1,3-Dichloropropene	8.830	75	637494	28.013	ppbv	98
47) 1,1,2-Trichloroethane	8.929	97	434673	25.171	ppbv	96
48) Toluene	9.062	91	1049845	26.678	ppbv	96
49) Dibromochloromethane	9.274	129	1418391	25.312	ppbv	99

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_12.D
Acq On : 05 Apr 2017 05:37 pm
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:49 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:32 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.147	43	915114	27.462	ppbv#	80
51) 1,2-Dibromoethane(EDB)	9.393	107	868451	25.854	ppbv	100
52) Tetrachloroethene	9.611	166	807956	25.728	ppbv	96
54) 1,1,1,2-Tetrachloroethane	9.934	131	780564	19.596	ppbv	98
55) Chlorobenzene	9.949	112	1021776	19.861	ppbv	97
56) Ethylbenzene	10.127	91	1518848	21.437	ppbv	98
57) m,p-Xylene	10.216	91	2473780	40.004	ppbv	96
58) Bromoform	10.282	173	1510037	19.995	ppbv	99
59) Styrene	10.408	104	856829	21.550	ppbv#	86
60) 1,1,2,2-Tetrachloroethane	10.460	83	939144	20.313	ppbv	97
61) o-Xylene	10.467	91	1305539	20.912	ppbv	95
64) Isopropylbenzene	10.778	105	1633694	20.486	ppbv	97
66) 4-Ethyltoluene	11.141	105	1795996	20.528	ppbv	99
67) 1,3,5-Trimethylbenzene	11.186	105	1548943	20.232	ppbv	96
68) 1,2,4-Trimethylbenzene	11.430	105	1663711	21.353	ppbv	94
70) Benzyl chloride	11.519	91	1521542	21.916	ppbv	98
71) 1,3-Dichlorobenzene	11.534	146	1277786	19.700	ppbv	99
72) 1,4-Dichlorobenzene	11.571	146	1262023	20.240	ppbv	99
73) sec-Butylbenzene	11.593	105	2032958	20.448	ppbv#	96
74) 4-Isopropyltoluene	11.682	119	2014021	20.391	ppbv	93
75) 1,2-Dichlorobenzene	11.786	146	1219463	19.948	ppbv	100
76) n-Butylbenzene	11.949	91	1720116	21.445	ppbv	97
77) 1,2,4-Trichlorobenzene	12.913	180	1015658	24.267	ppbv	98
79) Hexachlorobutadiene	13.232	225	1120743	19.170	ppbv	99
81] Dichlorodifluoromethan...	3.711	85	2185600	23.585	ppbv	96
82] 1,2-Dichlorotetrafluor...	3.967	85	1509359	23.797	ppbv	97
83] Vinyl Chloride(sim)	4.076	62	566816	22.866	ppbv	98
84] Bromomethane(sim)	4.446	94	464160	23.742	ppbv#	91
85] Trichlorofluoromethane...	5.211	101	2537824	22.809	ppbv	99
86] 1,2-Dichloroethane(sim)	7.406	62	914550	24.593	ppbv	99
87] 1,1,1-Trichloroethane(...	7.532	97	1565601	23.829	ppbv#	95
88] Carbon Tetrachloride(sim)	7.815	117	1584312	24.628	ppbv	99
89] 1,1-Dichloroethene(sim)	5.676	61	1291983	24.020	ppbv#	84
90] Carbon Disulfide(sim)	5.965	76	1082763	24.030	ppbv	100
91] Trichlorotrifluoroetha...	5.926	101	1412597	23.247	ppbv	99
92] Trans-1,2-Dichloroethe...	6.339	61	836779	24.556	ppbv	88
93] 1,1-Dichloroethane(sim)	6.457	63	1010704	22.957	ppbv	97
94] Cis-1,2-Dichloroethene...	6.902	61	642571	26.964	ppbv	90
95] Chloroform(sim)	7.052	83	1296836	23.433	ppbv#	90
96] Benzene(sim)	7.749	78	904470	24.215	ppbv#	87
98] 1,2-dichloropropane(sim)	8.122	63	320916	26.222	ppbv#	36
99] Bromodichloromethane(sim)	8.116	85	2615	24.410	ppbv#	42
100] Trichloroethene(sim)	8.221	130	598782	24.940	ppbv	98
101] 1,4-Dioxane(sim)	8.208	88	237074	30.856	ppbv#	87
102] cis-1,3-Dichloropropen...	8.603	75	602353	31.027	ppbv	97
103] 1,1,2-Trichloroethane(...	8.924	97	546128	24.839	ppbv	96
104] Dibromochloromethane(sim)	9.274	129	1418391	25.381	ppbv	99
105] 1,2-Dibromoethane(EDB)...	9.396	107	1089334	25.618	ppbv	99
106] Tetrachloroethene(sim)	9.611	166	807956	25.474	ppbv	96
108] Bromoform(sim)	10.282	173	1510037	19.572	ppbv	99
109] Chlorobenzene(sim)	9.952	112	1194621	18.306	ppbv#	93
110] Ethylbenzene(sim)	10.127	91	1518848	21.134	ppbv	99
111] m,p-Xylene(sim)	10.218	91	2676504	37.820	ppbv	95
112] Styrene(sim)	10.408	104	856829	23.069	ppbv#	86
113] 1,1,2,2-Tetrachloroeth...	10.463	83	1130763	19.231	ppbv#	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_12.D
Acq On : 05 Apr 2017 05:37 pm
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:49 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:32 2017
Response via : Initial Calibration

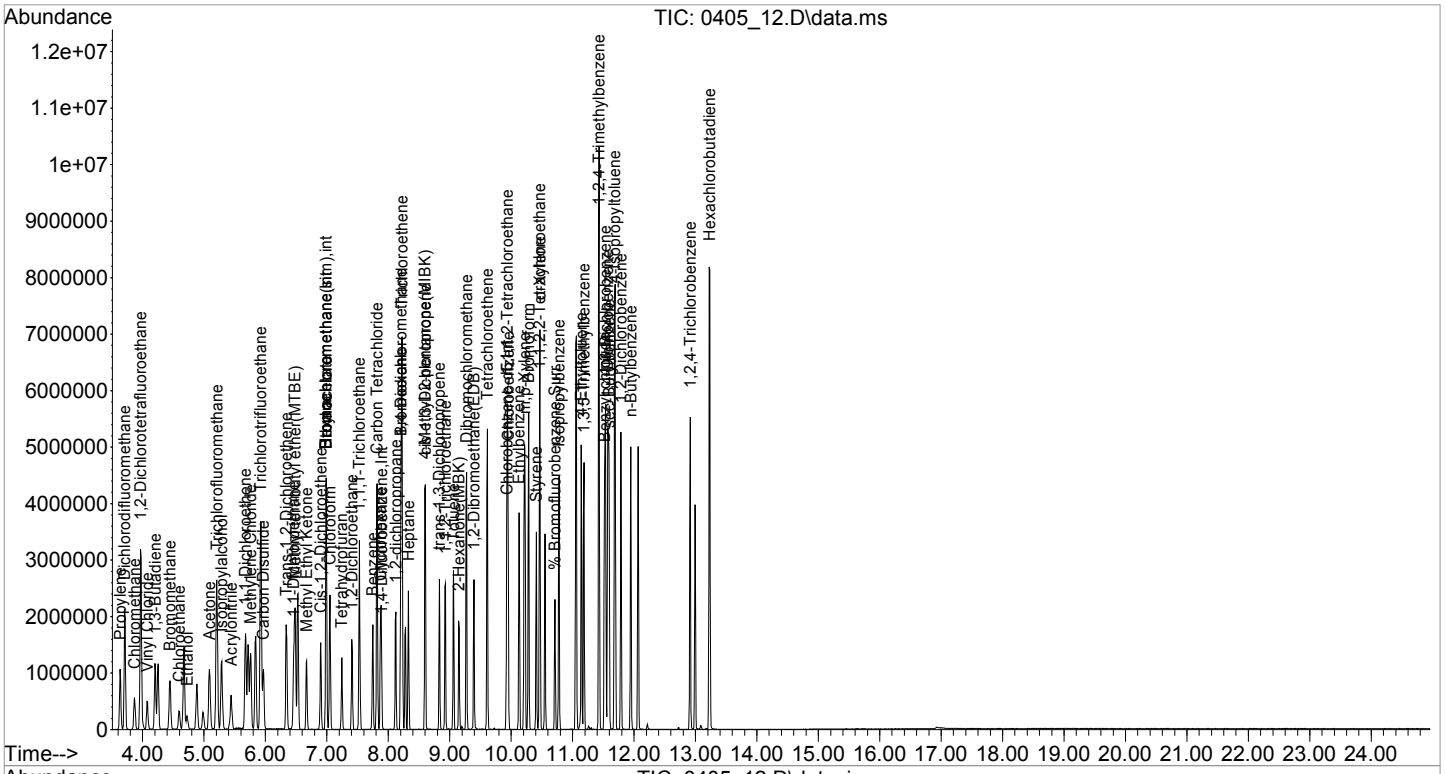
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	1305539	20.983	ppbv	97
115] Isopropylbenzene(sim)	10.781	105	1740205	19.466	ppbv#	68
117] 4-Ethyltoluene(sim)	11.144	105	1894352	19.301	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.186	105	1548943	19.400	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.426	105	1772043	20.465	ppbv#	92
121] Benzyl chloride(sim)	11.515	91	1656600	21.101	ppbv	96
122] 1,3-Dichlorobenzene(sim)	11.534	146	1277786	18.848	ppbv	98
123] 1,4-Dichlorobenzene(sim)	11.574	146	1612350	19.625	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	1663347	22.305	ppbv	81
125] 4-Isopropyltoluene(sim)	11.685	119	2074094	20.519	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	1219463	19.172	ppbv	99
127] n-Butylbenzene(sim)	11.945	91	1866771	20.722	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	1015695	25.020	ppbv	98
130] Hexachlorobutadiene(sim)	13.232	225	1120812	18.174	ppbv	99

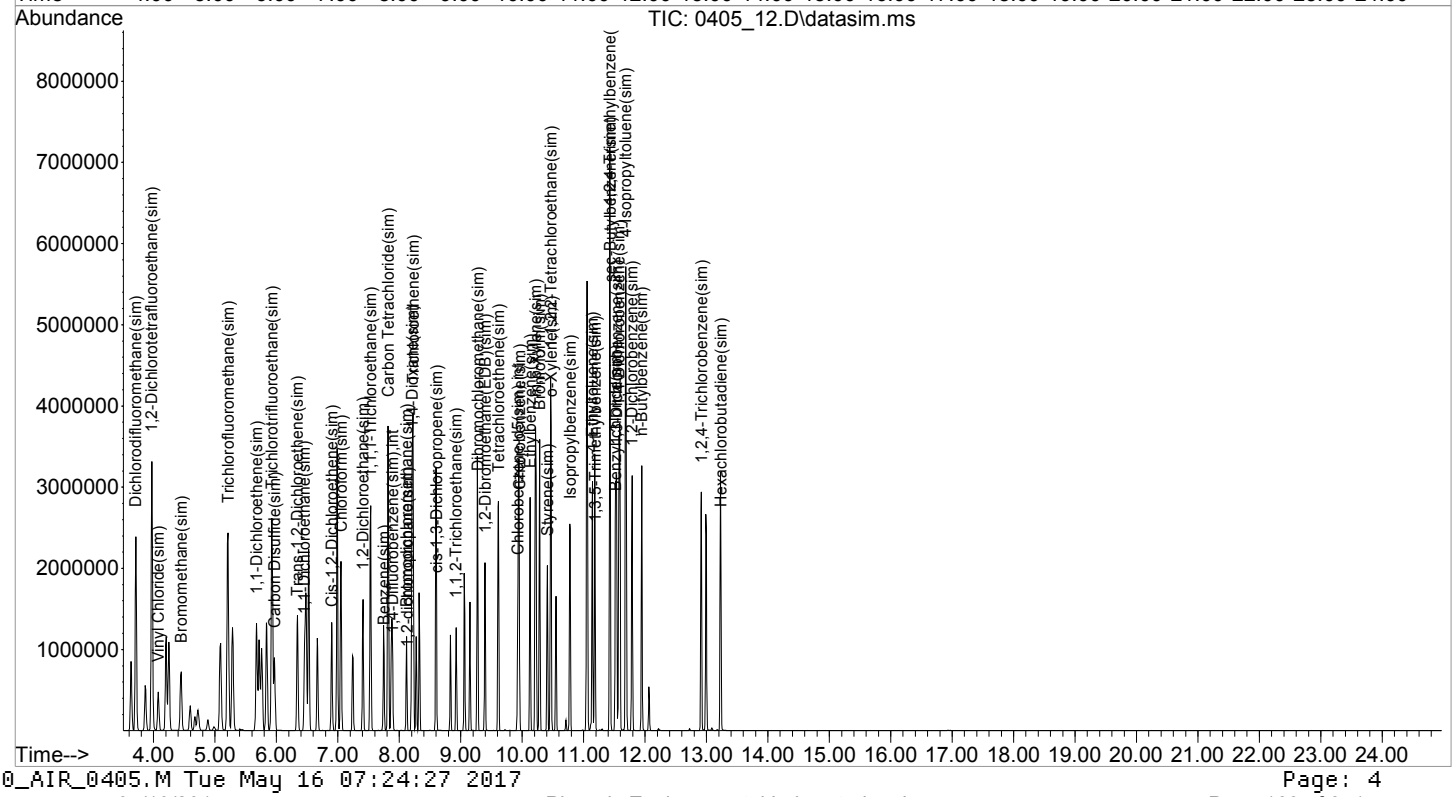
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_12.D
Acq On : 05 Apr 2017 05:37 pm
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:42:49 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:32 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_13.D
Acq On : 05 Apr 2017 06:16 pm
Operator : CORTEX\ms
Client ID : ICAL 40
Lab ID : 40ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:43:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.995	130	193676	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.890	114	536031	10.000	ng	0.00
53) Chlorobenzene-d5	9.927	82	348206	10.000	ng	0.00
80) Bromochloromethane(sim)	6.995	130	193676	10.000	ng	0.00
97) 1,4-Difluorobenzene(sim)	7.893	114	631752	10.000	ng	0.00
107) Chlorobenzene-d5(sim)	9.930	82	382219	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.712	95	333607	7.160	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 71.60%			
Target Compounds						Qvalue
2) Propylene	3.635	41	774275	36.417	ppbv	93
3) Dichlorodifluoromethane	3.716	85	2831130	39.934	ppbv#	97
4) Chloromethane	3.870	50	824991	33.911	ppbv#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	2359972	39.557	ppbv	98
6) Vinyl Chloride	4.081	62	717419	37.186	ppbv	98
7) 1,3-Butadiene	4.211	54	596451	35.834	ppbv#	49
8) Bromomethane	4.454	94	743518	40.491	ppbv#	92
9) Chloroethane	4.608	64	314219	36.555	ppbv#	73
11) Ethanol	4.738	45	405662	34.458	ppbv	96
12) Acetone	5.095	43	2125765	35.727	ppbv#	72
13) Trichlorofluoromethane	5.216	101	3266923	39.606	ppbv	99
14) Isopropylalcohol	5.298	45	2060704	36.288	ppbv#	89
15) Acrylonitrile	5.453	53	734831	42.648	ppbv	93
16) 1,1-Dichloroethene	5.679	61	1669879	39.016	ppbv#	83
17) Methylene Chloride	5.768	49	1351421	36.519	ppbv#	75
20) Carbon Disulfide	5.971	76	1654792	38.686	ppbv	100
21) Trichlorotrifluoroethane	5.929	101	1792104	39.713	ppbv#	88
22) Trans-1,2-Dichloroethene	6.345	61	1293302	39.872	ppbv	88
23) 1,1-Dichloroethane	6.465	63	1221084	35.447	ppbv	97
24) Methyl tert-butyl ethe...	6.486	73	1664209	38.144	ppbv#	86
25) Methyl Ethyl Ketone	6.673	43	1710888	39.119	ppbv#	87
26) Cis-1,2-Dichloroethene	6.902	61	997193	42.373	ppbv	90
27) Hexane	6.995	57	764639	41.535	ppbv#	51
28) Chloroform	7.057	83	1621134	39.117	ppbv	90
29) Ethyl acetate	6.995	61	163070	40.009	ppbv#	1
30) Tetrahydrofuran	7.243	42	713449	42.046	ppbv#	78
31) 1,2-Dichloroethane	7.413	62	1424245	40.145	ppbv	99
32) 1,1,1-Trichloroethane	7.530	97	1987108	40.359	ppbv#	94
33) Benzene	7.749	78	1491472	41.857	ppbv#	87
34) Carbon Tetrachloride	7.815	117	2493313	40.713	ppbv	99
35) Cyclohexane	7.873	41	638718	41.251	ppbv#	51
37) 1,2-dichloropropane	8.122	63	504598	40.831	ppbv#	34
38) Bromodichloromethane	8.205	83	1947653	42.415	ppbv	97
39) Trichloroethene	8.221	130	950345	40.092	ppbv	98
41) 1,4-Dioxane	8.213	88	346770	43.877	ppbv#	86
43) Heptane	8.329	43	875379	40.682	ppbv#	76
44) cis-1,3-Dichloropropene	8.603	75	976687	43.455	ppbv	97
45) 4-Methyl-2-pentanone(M...	8.603	43	1537783	42.997	ppbv#	88
46) trans-1,3-Dichloropropene	8.830	75	1034893	44.524	ppbv	97
47) 1,1,2-Trichloroethane	8.929	97	690234	40.244	ppbv	97
48) Toluene	9.062	91	1659831	41.839	ppbv	97
49) Dibromochloromethane	9.274	129	2282933	40.962	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_13.D
Acq On : 05 Apr 2017 06:16 pm
Operator : CORTEX\ms
Client ID : ICAL 40
Lab ID : 40ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:43:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
50) 2-Hexanone(MBK)	9.154	43	1435088	42.392 ppbv#	81
51) 1,2-Dibromoethane(EDB)	9.393	107	1400729	41.702 ppbv	98
52) Tetrachloroethene	9.611	166	1307886	41.702 ppbv	97
54) 1,1,1,2-Tetrachloroethane	9.934	131	1248210	29.349 ppbv	98
55) Chlorobenzene	9.949	112	1654179	30.032 ppbv	97
56) Ethylbenzene	10.127	91	2464366	31.955 ppbv	98
57) m,p-Xylene	10.223	91	4152961	62.632 ppbv	97
58) Bromoform	10.282	173	2448184	30.235 ppbv	99
59) Styrene	10.408	104	1397842	32.261 ppbv#	86
60) 1,1,2,2-Tetrachloroethane	10.460	83	1571012	31.586 ppbv	96
61) o-Xylene	10.467	91	2166727	32.061 ppbv	96
64) Isopropylbenzene	10.778	105	2611791	30.389 ppbv	97
66) 4-Ethyltoluene	11.141	105	2915524	30.907 ppbv	99
67) 1,3,5-Trimethylbenzene	11.186	105	2426100	29.482 ppbv	95
68) 1,2,4-Trimethylbenzene	11.430	105	2765196	32.634 ppbv#	93
70) Benzyl chloride	11.519	91	2528253	33.292 ppbv	98
71) 1,3-Dichlorobenzene	11.534	146	2030539	29.289 ppbv	97
72) 1,4-Dichlorobenzene	11.571	146	2046444	30.532 ppbv	98
73) sec-Butylbenzene	11.593	105	3273580	30.564 ppbv#	95
74) 4-Isopropyltoluene	11.682	119	3342932	31.436 ppbv	93
75) 1,2-Dichlorobenzene	11.786	146	1946349	29.710 ppbv	99
76) n-Butylbenzene	11.949	91	2772268	31.751 ppbv	97
77) 1,2,4-Trichlorobenzene	12.913	180	1724818	36.782 ppbv	98
79) Hexachlorobutadiene	13.232	225	1787579	28.768 ppbv	99
81] Dichlorodifluoromethan...	3.719	85	3350295	38.016 ppbv	96
82] 1,2-Dichlorotetrafluor...	3.975	85	2359892	39.125 ppbv	98
83] Vinyl Chloride(sim)	4.084	62	845139	35.850 ppbv	98
84] Bromomethane(sim)	4.454	94	743518	39.990 ppbv#	92
85] Trichlorofluoromethane...	5.219	101	3930161	37.143 ppbv	99
86] 1,2-Dichloroethane(sim)	7.413	62	1424245	40.274 ppbv	99
87] 1,1,1-Trichloroethane(...	7.533	97	2421113	38.750 ppbv#	95
88] Carbon Tetrachloride(sim)	7.815	117	2493313	40.755 ppbv	99
89] 1,1-Dichloroethene(sim)	5.682	61	1953218	38.184 ppbv#	86
90] Carbon Disulfide(sim)	5.971	76	1654792	38.617 ppbv	100
91] Trichlorotrifluoroetha...	5.932	101	2186249	37.833 ppbv	99
92] Trans-1,2-Dichloroethe...	6.345	61	1292974	39.898 ppbv	88
93] 1,1-Dichloroethane(sim)	6.468	63	1415245	33.803 ppbv#	96
94] Cis-1,2-Dichloroethene...	6.902	61	997193	44.002 ppbv	90
95] Chloroform(sim)	7.052	83	1987859	37.771 ppbv#	90
96] Benzene(sim)	7.749	78	1491472	41.988 ppbv#	87
98] 1,2-dichloropropane(sim)	8.122	63	504598	42.622 ppbv#	34
99] Bromodichloromethane(sim)	8.125	85	4134	39.892 ppbv#	44
100] Trichloroethene(sim)	8.221	130	950224	40.913 ppbv	99
101] 1,4-Dioxane(sim)	8.208	88	386183	51.960 ppbv#	87
102] cis-1,3-Dichloropropen...	8.603	75	976687	52.006 ppbv	97
103] 1,1,2-Trichloroethane(...	8.925	97	862951	40.573 ppbv	96
104] Dibromochloromethane(sim)	9.274	129	2282552	42.224 ppbv	97
105] 1,2-Dibromoethane(EDB)...	9.396	107	1727381	41.994 ppbv	98
106] Tetrachloroethene(sim)	9.611	166	1307886	42.628 ppbv	97
108] Bromoform(sim)	10.282	173	2448072	27.897 ppbv	99
109] Chlorobenzene(sim)	9.952	112	1912535	25.767 ppbv#	94
110] Ethylbenzene(sim)	10.127	91	2464366	30.148 ppbv	99
111] m,p-Xylene(sim)	10.219	91	4393169	54.578 ppbv	95
112] Styrene(sim)	10.408	104	1397842	33.089 ppbv#	86
113] 1,1,2,2-Tetrachloroeth...	10.463	83	1877206	28.070 ppbv#	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_13.D
Acq On : 05 Apr 2017 06:16 pm
Operator : CORTEX\ms
Client ID : ICAL 40
Lab ID : 40ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:43:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:55 2017
Response via : Initial Calibration

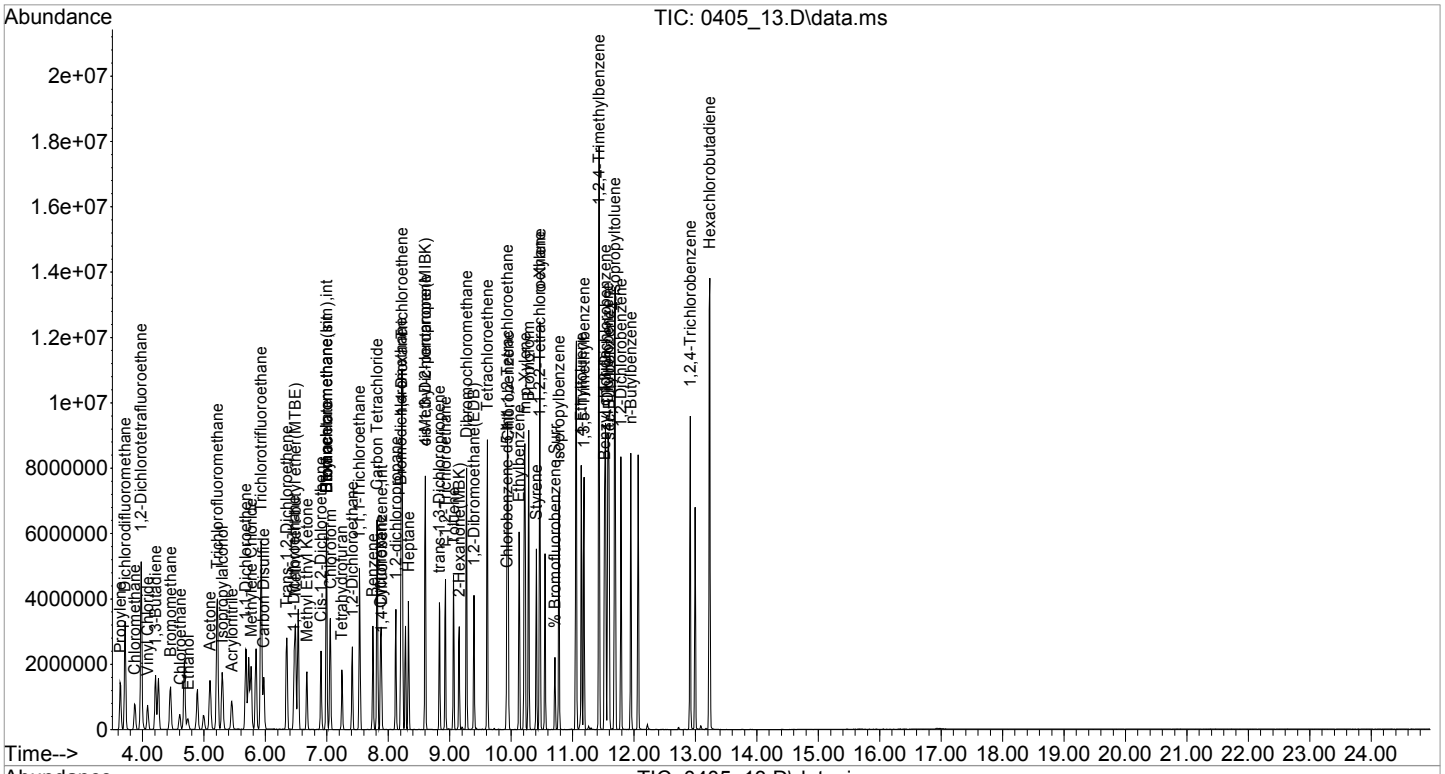
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	2166727	30.618	ppbv	98
115] Isopropylbenzene(sim)	10.781	105	2756417	27.109	ppbv#	67
117] 4-Ethyltoluene(sim)	11.144	105	3066576	27.470	ppbv	97
118] 1,3,5-Trimethylbenzene...	11.186	105	2426100	26.716	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.433	105	2830467	28.740	ppbv#	91
121] Benzyl chloride(sim)	11.522	91	2716273	30.420	ppbv	95
122] 1,3-Dichlorobenzene(sim)	11.534	146	2030539	26.333	ppbv	98
123] 1,4-Dichlorobenzene(sim)	11.574	146	2492967	26.678	ppbv	98
124] sec-Butylbenzene(sim)	11.430	105	2763418	32.581	ppbv	80
125] 4-Isopropyltoluene(sim)	11.685	119	3331662	28.979	ppbv#	90
126] 1,2-Dichlorobenzene(sim)	11.786	146	1946349	26.904	ppbv	98
127] n-Butylbenzene(sim)	11.945	91	2975815	29.042	ppbv#	47
128] 1,2,4-Trichlorobenzene...	12.913	180	1725067	37.361	ppbv	99
130] Hexachlorobutadiene(sim)	13.232	225	1787776	25.488	ppbv	100

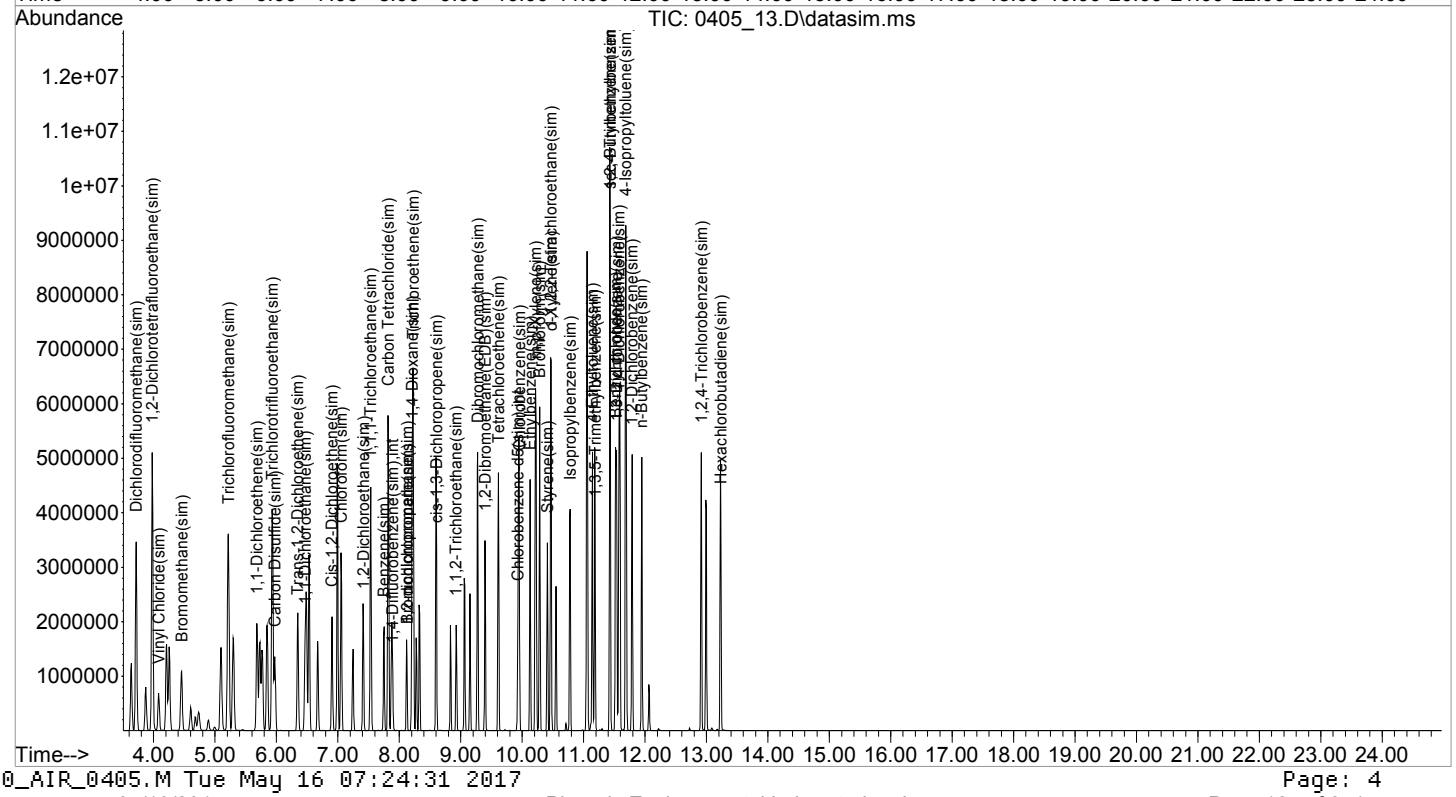
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\05\
Data File : 0405_13.D
Acq On : 05 Apr 2017 06:16 pm
Operator : CORTEX\ms
Client ID : ICAL 40
Lab ID : 40ppb;air03w
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 08:43:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:42:55 2017
Response via : Initial Calibration





6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM24 | Calibration Date From: 04/11/17 20:45

Heated Purge (Y/N): Y | Calibration Date Thru: 04/12/17 02:00

GC Column: zb-1ms | Method File: 24AIR_0411.M

Laboratory File Ids

RRF1 0411_03.D RRF2 0411_04.D RRF3 0411_05.D RRF4 0411_06.D RRF5 0411_07.D RRF6 0411_08.D
RRF7 0411_09.D RRF8 0411_10.D RRF9 0411_11.D RRF10 0411_12.D RRF11 0411_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
Propylene				0.499	0.532	0.451	0.562	0.452	0.598	0.652	0.645		0.549	14.51
Dichlorodifluoromethane				3.874	4.346	3.491	4.241	3.148	4.074	4.149	3.895		3.902	10.34
Chloromethane				0.251	0.286	0.212	0.273	0.220	0.273	0.277	0.261		0.257	10.58
1,2-Dichlorotetrafluoroethane				2.716	3.549	2.854	3.618	2.558	3.363	3.546	3.226		3.179	13.06
Vinyl Chloride				0.944	0.973	0.847	1.058	0.861	1.046	1.066	0.945		0.967	8.82
1,3-Butadiene				0.500	0.642	0.538	0.664	0.534	0.676	0.635	0.583		0.597	11.20
Bromomethane				1.156	1.279	1.136	1.323	1.075	1.323	1.352	1.223		1.233	8.27
Chloroethane				0.433	0.423	0.424	0.454	0.364	0.451	0.461	0.432		0.430	7.08
Ethanol					0.554	0.386	0.386	0.269	0.308	0.355	0.342		0.371	24.44
Acetone					2.549	1.608	1.824	1.192	1.634	1.614	1.596		1.717	24.05
Trichlorofluoromethane				4.162	4.843	3.974	4.711	3.657	4.188	4.432	4.153		4.265	9.06
Isopropylalcohol				1.698	1.796	1.275	1.681	1.259	1.322	1.609	1.566		1.526	13.81
Acrylonitrile				0.427	0.564	0.475	0.578	0.445	0.588	0.624	0.623		0.540	14.67
1,1-Dichloroethene				1.847	1.970	1.827	1.971	1.607	1.934	1.990	1.932		1.885	6.72
Methylene Chloride					1.742	1.420	1.333	1.041	1.149	1.170	1.097		1.279	19.04
Carbon Disulfide				2.593	2.928	2.599	2.939	2.425	2.865	2.924	2.874		2.768	7.18
Trichlorotrifluoroethane				2.769	2.910	2.561	2.920	2.295	2.552	2.819	2.752		2.697	7.92
Trans-1,2-Dichloroethene				1.420	1.535	1.466	1.651	1.237	1.624	1.688	1.632		1.532	9.90
1,1-Dichloroethane				1.932	2.104	1.858	2.057	1.547	2.012	2.038	1.994		1.943	9.11
Methyl tert-butyl ether(MTBE)				2.031	2.983	2.136	3.118	2.035	2.941	3.253	3.256		2.719	20.30
Methyl Ethyl Ketone				1.467	1.795	1.358	1.858	1.134	1.689	1.840	1.801		1.618	16.56
Cis-1,2-Dichloroethene				1.374	1.519	1.365	1.613	1.295	1.607	1.651	1.629		1.506	9.39
Hexane				1.174	1.187	1.074	1.143	0.955	1.144	1.225	1.187		1.136	7.55
Chloroform				2.769	3.124	2.763	3.095	2.509	2.873	3.060	2.852		2.881	7.22
Ethyl acetate					1.849	1.399	1.927	1.330	1.766	2.088	2.469		1.833	21.42
Tetrahydrofuran				0.561	0.708	0.543	0.790	0.518	0.760	0.883	0.908		0.709	21.64
1,2-Dichloroethane				1.848	2.296	2.107	2.330	1.775	2.269	2.427	2.337		2.174	11.12

(#) The maximum %RSD was not met for this compound

AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM24 | Calibration Date From: 04/11/17 20:45

Heated Purge (Y/N): Y | Calibration Date Thru: 04/12/17 02:00

GC Column: zb-1ms | Method File: 24AIR_0411.M

Laboratory File Ids

RRF1 0411_03.D RRF2 0411_04.D RRF3 0411_05.D RRF4 0411_06.D RRF5 0411_07.D RRF6 0411_08.D

RRF7 0411_09.D RRF8 0411_10.D RRF9 0411_11.D RRF10 0411_12.D RRF11 0411_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
1,1,1-Trichloroethane				3.095	3.346	3.026	3.451	2.819	3.170	3.585	3.427		3.240	7.90
Benzene				2.813	2.990	2.766	3.061	2.531	3.020	3.369	3.180		2.966	8.77
Carbon Tetrachloride				3.462	3.769	3.432	3.858	3.184	3.655	4.041	3.889		3.661	7.77
Cyclohexane				0.922	1.085	0.986	1.224	1.030	1.226	1.362	1.376		1.151	14.85
1,2-dichloropropane				0.222	0.239	0.202	0.229	0.194	0.225	0.251	0.273		0.230	11.11
Bromodichloromethane				0.817	0.972	0.862	0.973	0.817	0.985	1.046	1.028		0.938	9.82
Trichloroethene				0.436	0.460	0.412	0.455	0.392	0.482	0.522	0.515		0.459	10.01
1,4-Dioxane					0.190	0.162	0.220	0.181	0.189	0.235	0.221		0.200	13.04
Heptane				0.190	0.241	0.217	0.259	0.210	0.260	0.287	0.282		0.243	14.47
cis-1,3-Dichloropropene				0.437	0.522	0.476	0.590	0.500	0.655	0.695	0.693		0.571	17.77
4-Methyl-2-pentanone(MIBK)				0.474	0.576	0.460	0.660	0.584	0.612	0.710	0.660		0.592	15.03
trans-1,3-Dichloropropene				0.451	0.523	0.510	0.618	0.563	0.752	0.734	0.718		0.609	18.85
1,1,2-Trichloroethane				0.351	0.464	0.352	0.455	0.366	0.461	0.493	0.488		0.429	14.32
Toluene				0.880	1.098	0.930	1.151	0.915	1.180	1.272	1.206		1.079	13.93
Dibromochloromethane				0.762	0.982	0.835	1.099	0.845	1.116	1.189	1.149		0.997	16.48
2-Hexanone(MBK)				0.405	0.499	0.486	0.652	0.578	0.599	0.682	0.655		0.570	17.10
1,2-Dibromoethane(EDB)				0.663	0.780	0.718	0.845	0.697	0.850	0.894	0.898		0.793	11.56
Tetrachloroethene				0.529	0.649	0.555	0.667	0.493	0.685	0.775	0.798		0.644	17.33
1,1,1,2-Tetrachloroethane				0.811	1.219	0.855	1.196	0.854	1.045	1.072	0.990		1.005	15.57
Chlorobenzene				1.689	1.954	1.597	1.905	1.473	1.666	1.672	1.557		1.689	9.75
Ethylbenzene				2.308	3.034	2.224	3.139	2.261	2.770	2.686	2.406		2.604	13.73
m,p-Xylene				2.069	2.716	1.694	2.775	2.174	2.333	2.258	2.023		2.255	15.89
Bromoform				1.498	1.958	1.537	1.982	1.624	1.819	1.910	1.706		1.754	10.85
Styrene				1.020	1.410	1.262	1.595	1.421	1.550	1.548	1.477		1.410	13.45
1,1,2,2-Tetrachloroethane				1.638	2.061	1.649	1.952	1.603	1.504	1.501	1.366		1.659	14.14
o-Xylene				1.806	2.573	2.008	2.658	1.975	2.064	2.151	1.928		2.145	14.33
Isopropylbenzene				2.591	3.300	2.604	3.258	2.456	2.636	2.807	2.581		2.779	11.64

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM24 | Calibration Date From: 04/11/17 20:45

Heated Purge (Y/N): Y | Calibration Date Thru: 04/12/17 02:00

GC Column: zb-1ms | Method File: 24AIR_0411.M

Laboratory File Ids

RRF1 0411_03.D RRF2 0411_04.D RRF3 0411_05.D RRF4 0411_06.D RRF5 0411_07.D RRF6 0411_08.D
RRF7 0411_09.D RRF8 0411_10.D RRF9 0411_11.D RRF10 0411_12.D RRF11 0411_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
4-Ethyltoluene				2.588	3.379	2.947	3.470	2.974	3.040	3.006	2.658		3.008	10.18
1,3,5-Trimethylbenzene				2.294	3.075	2.747	3.000	2.592	2.612	2.567	2.321		2.651	10.66
1,2,4-Trimethylbenzene				2.184	2.959	2.603	3.064	2.770	2.654	2.565	2.290		2.636	11.43
Benzyl chloride				1.517	1.961	1.883	2.386	2.178	2.352	2.343	2.115		2.092	14.19
1,3-Dichlorobenzene				1.588	1.971	1.711	1.913	1.699	1.792	1.813	1.675		1.770	7.21
1,4-Dichlorobenzene				1.506	1.750	1.655	1.908	1.580	1.700	1.785	1.611		1.687	7.54
sec-Butylbenzene				3.139	4.179	3.590	4.027	3.598	3.468	3.420	3.075		3.562	10.84
4-Isopropyltoluene				2.850	3.683	3.319	3.806	3.309	3.329	3.258	2.915		3.309	9.93
1,2-Dichlorobenzene				1.630	1.922	1.645	1.827	1.631	1.710	1.703	1.553		1.703	7.02
n-Butylbenzene				2.363	3.007	2.804	3.368	3.031	2.982	2.899	2.484		2.867	11.16
1,2,4-Trichlorobenzene					0.700	0.695	0.937	0.866	1.099	1.147	1.114		0.937	20.49
Hexachlorobutadiene				1.573	1.852	1.593	1.708	1.533	1.611	1.613	1.361		1.605	8.72
1,2-Dichlorotetrafluoroethane(sim)	2.829	2.120	2.824	3.065	3.903	3.072	3.909	2.773					3.062	19.54
Vinyl Chloride(sim)	0.566	0.614	0.750	0.944	0.973	0.847	1.058	0.861					0.827	20.94
Bromomethane(sim)	1.369	1.073	1.217	1.280	1.402	1.252	1.428	1.161					1.273	9.68
Trichlorofluoromethane(sim)	5.041	4.046	4.336	4.162	4.832	3.974	4.708	3.657					4.345	10.96
Trans-1,2-Dichloroethene(sim)	1.476	1.248	1.342	1.630	1.735	1.590	1.789						1.544	12.94
1,1-Dichloroethene(sim)	1.715	1.486	1.529	1.847	1.970	1.827	1.971	1.607					1.744	10.89
1,1-Dichloroethane(sim)	1.629	1.547	1.672	2.116	2.297	2.053	2.232	1.639					1.898	16.13
Cis-1,2-Dichloroethene(sim)	1.212	0.885	1.031	1.374	1.519	1.365	1.613	1.295					1.287	18.72
1,2-Dichloroethane(sim)	2.299	1.333	1.905	2.234	2.342	2.063	2.304	1.913					2.049	16.50
1,1,1-Trichloroethane(sim)	2.416	2.494	2.248	3.095	3.346	3.026	3.451	2.819					2.862	15.49
Carbon Tetrachloride(sim)	3.107	2.852	3.006	3.739	4.000	3.677	4.115	3.387					3.485	13.48
Trichlorotrifluoroethane(sim)	2.712	2.254	2.399	2.769	2.910	2.561	2.920	2.295					2.603	10.21
1,2-dichloropropane(sim)		0.165	0.131	0.203	0.220	0.184	0.209	0.177					0.184	16.49
Bromodichloromethane(sim)		0.415	0.627	0.795	0.952	0.834	0.959	0.807					0.770	24.95
Trichloroethene(sim)	0.334	0.272	0.226	0.398	0.422	0.376	0.416	0.358					0.350	19.96

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: AIRTEK

Lab Code: Phoenix | SDG No.: GBY03105

Instrument ID: CHEM24 | Calibration Date From: 04/11/17 20:45

Heated Purge (Y/N): Y | Calibration Date Thru: 04/12/17 02:00

GC Column: zb-1ms | Method File: 24AIR_0411.M

Laboratory File Ids

RRF1 0411_03.D RRF2 0411_04.D RRF3 0411_05.D RRF4 0411_06.D RRF5 0411_07.D RRF6 0411_08.D
RRF7 0411_09.D RRF8 0411_10.D RRF9 0411_11.D RRF10 0411_12.D RRF11 0411_13.D

COMPOUND	RRF1 0.035	RRF2 0.05	RRF3 0.1	RRF4 0.2	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
1,4-Dioxane(sim)			0.162	0.166	0.206	0.167	0.217	0.180	0.184				0.183	11.57
cis-1,3-Dichloropropene(sim)			0.329	0.399	0.479	0.434	0.539	0.456					0.439	16.33
1,1,2-Trichloroethane(sim)			0.346	0.380	0.472	0.364	0.458						0.404	14.18
Dibromochloromethane(sim)			0.707	0.696	0.901	0.761	1.004	0.770					0.807	15.03
1,2-Dibromoethane(EDB)(sim)	0.667	0.427	0.642	0.683	0.801	0.728	0.844	0.704					0.687	18.25
Tetrachloroethene(sim)	0.467	0.247	0.451	0.476	0.591	0.506	0.609	0.449					0.475	23.35
Bromoform(sim)		0.805	1.273	1.418	1.798	1.440	1.883						1.436	27.08
1,1,1,2-Tetrachloroethane(sim)			0.851	0.887	1.258	0.877	1.256	0.883					1.002	19.75
m,p-Xylene(sim)		1.157	1.865	1.959	2.503	1.991	2.637	2.057					2.024	23.77
1,1,2,2-Tetrachloroethane(sim)		1.377	1.768	1.754	2.106	1.700	2.024	1.664					1.771	13.61
Benzyl chloride(sim)			1.260	1.436	1.807	1.771	2.267	2.061					1.767	21.25
1,3-Dichlorobenzene(sim)		1.563	1.643	1.710	2.053	1.846	2.096	1.836					1.821	11.00
1,4-Dichlorobenzene(sim)		1.354	1.325	1.426	1.613	1.557	1.813	1.495					1.512	11.14
sec-Butylbenzene(sim)	3.406	2.350	2.990	3.272	4.133	3.640	4.118	3.643					3.444	17.15
4-Isopropyltoluene(sim)	2.665	2.021	2.354	2.698	3.394	3.122	3.617	3.131					2.875	18.70
1,2-Dichlorobenzene(sim)	2.388	1.674	1.648	1.794	2.045	1.753	1.983	1.734					1.877	13.31
n-Butylbenzene(sim)		1.601	1.859	2.237	2.771	2.638	3.200	2.868					2.453	23.48
1,2,4-Trichlorobenzene(sim)		0.929	0.578	0.638	0.765	0.776	1.024						0.785	21.51
Hexachlorobutadiene(sim)		1.778	1.711	1.735	1.898	1.681	1.777	1.583					1.738	5.59
% Bromofluorobenzene				1.389	1.458	1.361	1.312	1.406	1.340	1.185	1.063		1.314	9.84

(#) The maximum %RSD was not met for this compound

Response Factor Report Chem24

Method Path : H:\AIR2017\CHEM24\METHODS\
Method File : 24AIR_0411.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Apr 17 08:55:54 2017
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
.035=0411_03.D 0.05=0411_04.D 0.10=0411_05.D 0.2 =0411_06.D 0.5 =0411_07.D 1.0 =0411_08.D 2.5 =0411_09.D 5.0 =0411_10.D
10 =0411_11.D 25 =0411_12.D 40 =0411_13.D

	Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	Avg	%RSD
1)	Int Bromochloromethane	----------ISTD----------												
2)	Propylene				0.499	0.532	0.451	0.562	0.452	0.598	0.652	0.645	0.549	14.51
3)	Dichlorodifluo...				3.874	4.346	3.491	4.241	3.148	4.074	4.149	3.895	3.902	10.34
4)	Chloromethane				0.251	0.286	0.212	0.273	0.220	0.273	0.277	0.261	0.257	10.58
5)	1,2-Dichlorote...				2.716	3.549	2.854	3.618	2.558	3.363	3.546	3.226	3.179	13.06
6)	Vinyl Chloride				0.944	0.973	0.847	1.058	0.861	1.046	1.066	0.945	0.967	8.82
7)	1,3-Butadiene				0.500	0.642	0.538	0.664	0.534	0.676	0.635	0.583	0.597	11.20
8)	Bromomethane				1.156	1.279	1.136	1.323	1.075	1.323	1.352	1.223	1.233	8.27
9)	Chloroethane				0.433	0.423	0.424	0.454	0.364	0.451	0.461	0.432	0.430	7.08
10)	Ethanol					0.554	0.386	0.386	0.269	0.308	0.355	0.342	0.371	24.44
12)	Acetone					2.549	1.608	1.824	1.192	1.634	1.614	1.596	1.717	24.05
13)	Trichlorofluor...				4.162	4.843	3.974	4.711	3.657	4.188	4.432	4.153	4.265	9.06
14)	Isopropylalcohol				1.698	1.796	1.275	1.681	1.259	1.322	1.609	1.566	1.526	13.81
15)	Acrylonitrile				0.427	0.564	0.475	0.578	0.445	0.588	0.624	0.623	0.540	14.67
16)	1,1-Dichloroet...				1.847	1.970	1.827	1.971	1.607	1.934	1.990	1.932	1.885	6.72
17)	Methylene Chlo...					1.742	1.420	1.333	1.041	1.149	1.170	1.097	1.279	19.04
20)	Carbon Disulfide				2.593	2.928	2.599	2.939	2.425	2.865	2.924	2.874	2.768	7.18
21)	Trichlorotrifl...				2.769	2.910	2.561	2.920	2.295	2.552	2.819	2.752	2.697	7.92
22)	Trans-1,2-Dich...				1.420	1.535	1.466	1.651	1.237	1.624	1.688	1.632	1.532	9.90
23)	1,1-Dichloroet...				1.932	2.104	1.858	2.057	1.547	2.012	2.038	1.994	1.943	9.11
24)	Methyl tert-bu...				2.031	2.983	2.136	3.118	2.035	2.941	3.253	3.256	2.719	20.30
25)	Methyl Ethyl K...				1.467	1.795	1.358	1.858	1.134	1.689	1.840	1.801	1.618	16.56
26)	Cis-1,2-Dichlo...				1.374	1.519	1.365	1.613	1.295	1.607	1.651	1.629	1.506	9.39
27)	Hexane				1.174	1.187	1.074	1.143	0.955	1.144	1.225	1.187	1.136	7.55
28)	Chloroform				2.769	3.124	2.763	3.095	2.509	2.873	3.060	2.852	2.881	7.22
29)	Ethyl acetate					1.849	1.399	1.927	1.330	1.766	2.088	2.469	1.833	21.42
30)	Tetrahydrofuran				0.561	0.708	0.543	0.790	0.518	0.760	0.883	0.908	0.709	21.64
31)	1,2-Dichloroet...				1.848	2.296	2.107	2.330	1.775	2.269	2.427	2.337	2.174	11.12
32)	1,1,1-Trichlor...				3.095	3.346	3.026	3.451	2.819	3.170	3.585	3.427	3.240	7.90
33)	Benzene				2.813	2.990	2.766	3.061	2.531	3.020	3.369	3.180	2.966	8.77
34)	Carbon Tetrach...				3.462	3.769	3.432	3.858	3.184	3.655	4.041	3.889	3.661	7.77
35)	Cyclohexane				0.922	1.085	0.986	1.224	1.030	1.226	1.362	1.376	1.151	14.85
36)	Int 1,4-Difluorobenzene	----------ISTD----------												
37)	1,2-dichloropr...				0.222	0.239	0.202	0.229	0.194	0.225	0.251	0.273	0.230	11.11
38)	Bromodichlorom...				0.817	0.972	0.862	0.973	0.817	0.985	1.046	1.028	0.938	9.82
39)	Trichloroethene				0.436	0.460	0.412	0.455	0.392	0.482	0.522	0.515	0.459	10.01
41)	1,4-Dioxane					0.190	0.162	0.220	0.181	0.189	0.235	0.221	0.200	13.04
43)	Heptane				0.190	0.241	0.217	0.259	0.210	0.260	0.287	0.282	0.243	14.47
44)	cis-1,3-Dichlo...				0.437	0.522	0.476	0.590	0.500	0.655	0.695	0.693	0.571	17.77

Method Path : H:\AIR2017\CHEM24\METHODS\
Method File : 24AIR_0411.M
Title : VOA Standards for 5 point calibration

45)	4-Methyl-2-pen...			0.474	0.576	0.460	0.660	0.584	0.612	0.710	0.660	0.592	15.03
46)	trans-1,3-Dich...			0.451	0.523	0.510	0.618	0.563	0.752	0.734	0.718	0.609	18.85
47)	1,1,2-Trichlor...			0.351	0.464	0.352	0.455	0.366	0.461	0.493	0.488	0.429	14.32
48)	Toluene			0.880	1.098	0.930	1.151	0.915	1.180	1.272	1.206	1.079	13.93
49)	Dibromochlorom...			0.762	0.982	0.835	1.099	0.845	1.116	1.189	1.149	0.997	16.48
50)	2-Hexanone(MBK)			0.405	0.499	0.486	0.652	0.578	0.599	0.682	0.655	0.570	17.10
51)	1,2-Dibromoeth...			0.663	0.780	0.718	0.845	0.697	0.850	0.894	0.898	0.793	11.56
52)	Tetrachloroethene			0.529	0.649	0.555	0.667	0.493	0.685	0.775	0.798	0.644	17.33
53)	Int Chlorobenzene-d5	----------ISTD----------											
54)	1,1,1,2-Tetrac...			0.811	1.219	0.855	1.196	0.854	1.045	1.072	0.990	1.005	15.57
55)	Chlorobenzene			1.689	1.954	1.597	1.905	1.473	1.666	1.672	1.557	1.689	9.75
56)	Ethylbenzene			2.308	3.034	2.224	3.139	2.261	2.770	2.686	2.406	2.604	13.73
57)	m,p-Xylene			2.069	2.716	1.694	2.775	2.174	2.333	2.258	2.023	2.255	15.89
58)	Bromoform			1.498	1.958	1.537	1.982	1.624	1.819	1.910	1.706	1.754	10.85
59)	Styrene			1.020	1.410	1.262	1.595	1.421	1.550	1.548	1.477	1.410	13.45
60)	1,1,2,2-Tetrac...			1.638	2.061	1.649	1.952	1.603	1.504	1.501	1.366	1.659	14.14
61)	o-Xylene			1.806	2.573	2.008	2.658	1.975	2.064	2.151	1.928	2.145	14.33
62)	Surr% Bromofluorob...			1.389	1.458	1.361	1.312	1.406	1.340	1.185	1.063	1.314	9.84
64)	Isopropylbenzene			2.591	3.300	2.604	3.258	2.456	2.636	2.807	2.581	2.779	11.64
66)	4-Ethyltoluene			2.588	3.379	2.947	3.470	2.974	3.040	3.006	2.658	3.008	10.18
67)	1,3,5-Trimethy...			2.294	3.075	2.747	3.000	2.592	2.612	2.567	2.321	2.651	10.66
68)	1,2,4-Trimethy...			2.184	2.959	2.603	3.064	2.770	2.654	2.565	2.290	2.636	11.43
70)	Benzyl chloride			1.517	1.961	1.883	2.386	2.178	2.352	2.343	2.115	2.092	14.19
71)	1,3-Dichlorobe...			1.588	1.971	1.711	1.913	1.699	1.792	1.813	1.675	1.770	7.21
72)	1,4-Dichlorobe...			1.506	1.750	1.655	1.908	1.580	1.700	1.785	1.611	1.687	7.54
73)	sec-Butylbenzene			3.139	4.179	3.590	4.027	3.598	3.468	3.420	3.075	3.562	10.84
74)	4-Isopropyltol...			2.850	3.683	3.319	3.806	3.309	3.329	3.258	2.915	3.309	9.93
75)	1,2-Dichlorobe...			1.630	1.922	1.645	1.827	1.631	1.710	1.703	1.553	1.703	7.02
76)	n-Butylbenzene			2.363	3.007	2.804	3.368	3.031	2.982	2.899	2.484	2.867	11.16
77)	1,2,4-Trichlor...				0.700	0.695	0.937	0.866	1.099	1.147	1.114	0.937	20.49
79)	Hexachlorobuta...			1.573	1.852	1.593	1.708	1.533	1.611	1.613	1.361	1.605	8.72
80)	int Bromochloromethane...	----------ISTD----------											
81)	1,2-Dichlorote...	2.829	2.120	2.824	3.065	3.903	3.072	3.909	2.773			3.062	19.54
82)	Vinyl Chloride...	0.566	0.614	0.750	0.944	0.973	0.847	1.058	0.861			0.827	20.94
83)	Bromomethane(sim)	1.369	1.073	1.217	1.280	1.402	1.252	1.428	1.161			1.273	9.68
84)	Trichlorofluor...	5.041	4.046	4.336	4.162	4.832	3.974	4.708	3.657			4.345	10.96
85)	Trans-1,2-Dich...	1.476	1.248	1.342	1.630	1.735	1.590	1.789				1.544	12.94
86)	1,1-Dichloroet...	1.715	1.486	1.529	1.847	1.970	1.827	1.971	1.607			1.744	10.89
87)	1,1-Dichloroet...	1.629	1.547	1.672	2.116	2.297	2.053	2.232	1.639			1.898	16.13
88)	Cis-1,2-Dichlo...	1.212	0.885	1.031	1.374	1.519	1.365	1.613	1.295			1.287	18.72
89)	1,2-Dichloroet...	2.299	1.333	1.905	2.234	2.342	2.063	2.304	1.913			2.049	16.50
90)	1,1,1-Trichlor...	2.416	2.494	2.248	3.095	3.346	3.026	3.451	2.819			2.862	15.49
91)	Carbon Tetrach...	3.107	2.852	3.006	3.739	4.000	3.677	4.115	3.387			3.485	13.48
92)	Trichlorotrifl...	2.712	2.254	2.399	2.769	2.910	2.561	2.920	2.295			2.603	10.21
93)	int 1,4-Difluorobenzen...	----------ISTD----------											
94)	1,2-dichloropr...		0.165	0.131	0.203	0.220	0.184	0.209	0.177			0.184	16.49
95)	Bromodichlorom...		0.415	0.627	0.795	0.952	0.834	0.959	0.807			0.770	24.95

Method Path : H:\AIR2017\CHEM24\METHODS\
Method File : 24AIR_0411.M
Title : VOA Standards for 5 point calibration

96)	Trichloroethen...	0.334	0.272	0.226	0.398	0.422	0.376	0.416	0.358			0.350	19.96
97)	1,4-Dioxane(sim)			0.162	0.166	0.206	0.167	0.217	0.180	0.184		0.183	11.57
98)	cis-1,3-Dichlo...			0.329	0.399	0.479	0.434	0.539	0.456			0.439	16.33
99)	1,1,2-Trichlor...			0.346	0.380	0.472	0.364	0.458				0.404	14.18
100)	Dibromochlorom...			0.707	0.696	0.901	0.761	1.004	0.770			0.807	15.03
101)	1,2-Dibromoeth...	0.667	0.427	0.642	0.683	0.801	0.728	0.844	0.704			0.687	18.25
102)	Tetrachloroeth...	0.467	0.247	0.451	0.476	0.591	0.506	0.609	0.449			0.475	23.35
103)	int Chlorobenzene-d5(sim)	----------ISTD----------											
104)	Bromoform(sim)		0.805	1.273	1.418	1.798	1.440	1.883				1.436	27.08
105)	1,1,1,2-Tetrac...			0.851	0.887	1.258	0.877	1.256	0.883			1.002	19.75
106)	m,p-Xylene(sim)		1.157	1.865	1.959	2.503	1.991	2.637	2.057			2.024	23.77
107)	1,1,2,2-Tetrac...		1.377	1.768	1.754	2.106	1.700	2.024	1.664			1.771	13.61
110)	Benzyl chlorid...			1.260	1.436	1.807	1.771	2.267	2.061			1.767	21.25
111)	1,3-Dichlorobe...		1.563	1.643	1.710	2.053	1.846	2.096	1.836			1.821	11.00
112)	1,4-Dichlorobe...		1.354	1.325	1.426	1.613	1.557	1.813	1.495			1.512	11.14
113)	sec-Butylbenze...	3.406	2.350	2.990	3.272	4.133	3.640	4.118	3.643			3.444	17.15
114)	4-Isopropyltol...	2.665	2.021	2.354	2.698	3.394	3.122	3.617	3.131			2.875	18.70
115)	1,2-Dichlorobe...	2.388	1.674	1.648	1.794	2.045	1.753	1.983	1.734			1.877	13.31
116)	n-Butylbenzene...		1.601	1.859	2.237	2.771	2.638	3.200	2.868			2.453	23.48
117)	1,2,4-Trichlor...		0.929	0.578	0.638	0.765	0.776	1.024				0.785	21.51
119)	Hexachlorobuta...		1.778	1.711	1.735	1.898	1.681	1.777	1.583			1.738	5.59

(#,$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_03.D
Acq On : 11 Apr 2017 7:43 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 08:55:47 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:34 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.945	130	141908	10.000	ng	-0.02
36) 1,4-Difluorobenzene	5.934	114	472460	10.000	ng	-0.02
53) Chlorobenzene-d5	9.215	82	250623	10.000	ng	0.00
80) Bromochloromethane(sim)	3.945	130	141908	10.000	ng	-0.02
93) 1,4-Difluorobenzene(sim)	5.937	114	519889	10.000	ng	#-0.01
103) Chlorobenzene-d5(sim)	9.210	82	267966	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.125	95	332501	10.519	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%			
Target Compounds						Qvalue
2) Propylene	1.528	41	238	0.029	ppbv#	52
3) Dichlorodifluoromethane	1.554	85	2060	0.037	ppbv	94
4) Chloromethane	1.622	52	84	0.023	ppbv#	1
5) 1,2-Dichlorotetrafluor...	1.656	85	1219	0.026	ppbv	97
6) Vinyl Chloride	1.706	62	281	0.020	ppbv#	43
7) 1,3-Butadiene	1.757	54	100	0.011	ppbv#	1
8) Bromomethane	1.859	94	629	0.035	ppbv#	76
9) Chloroethane	1.927	64	79	0.013	ppbv#	40
10) Ethanol	2.020	45	3207	0.681	ppbv#	96
12) Acetone	2.223	43	7994	0.358	ppbv	97
13) Trichlorofluoromethane	2.240	101	2504	0.042	ppbv#	95
14) Isopropylalcohol	2.376	45	2348	0.111	ppbv#	40
15) Acrylonitrile	2.393	53	162	0.020	ppbv#	18
16) 1,1-Dichloroethene	2.528	61	852	0.032	ppbv#	79
17) Methylene Chloride	2.587	49	6191	0.377	ppbv#	85
20) Carbon Disulfide	2.732	76	1412	0.035	ppbv#	84
21) Trichlorotrifluoroethane	2.732	101	1347	0.036	ppbv	86
22) Trans-1,2-Dichloroethene	3.098	61	714	0.032	ppbv#	65
23) 1,1-Dichloroethane	3.224	63	825	0.030	ppbv#	61
24) Methyl tert-butyl ethe...	3.391	73	977	0.024	ppbv#	53
25) Methyl Ethyl Ketone	3.591	43	1018	0.043	ppbv#	69
26) Cis-1,2-Dichloroethene	3.818	61	380	0.017	ppbv#	52
27) Hexane	4.031	57	800	0.050	ppbv#	94
28) Chloroform	4.071	83	863	0.021	ppbv#	85
29) Ethyl acetate	4.025	43	307	0.011	ppbv#	67
31) 1,2-Dichloroethane	4.768	62	492	0.016	ppbv#	62
32) 1,1,1-Trichloroethane	5.042	97	871	0.019	ppbv#	88
33) Benzene	5.519	78	1378	0.032	ppbv#	68
34) Carbon Tetrachloride	5.660	117	1264	0.024	ppbv	90
35) Cyclohexane	5.786	56	223	0.013	ppbv#	56
38) Bromodichloromethane	6.480	83	852	0.019	ppbv	81
39) Trichloroethene	6.513	130	475	0.021	ppbv#	71
43) Heptane	6.853	71	65	0.005	ppbv#	70
44) cis-1,3-Dichloropropene	7.247	75	534	0.018	ppbv#	57
45) 4-Methyl-2-pentanone(M...	7.420	43	685	0.022	ppbv#	59
46) trans-1,3-Dichloropropene	7.668	75	591	0.018	ppbv#	45
47) 1,1,2-Trichloroethane	7.771	97	377	0.018	ppbv#	81
48) Toluene	7.970	91	1453	0.027	ppbv#	81
49) Dibromochloromethane	8.251	129	1073	0.021	ppbv#	94
50) 2-Hexanone(MBK)	8.306	43	551	0.018	ppbv#	58
51) 1,2-Dibromoethane(EDB)	8.423	107	980	0.025	ppbv	94
52) Tetrachloroethene	8.773	166	735	0.023	ppbv#	82

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_03.D
Acq On : 11 Apr 2017 7:43 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 08:55:47 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:34 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54)	1,1,1,2-Tetrachloroethane	9.238	131	605	0.023	ppbv#	81
55)	Chlorobenzene	9.245	112	1503	0.036	ppbv#	1
56)	Ethylbenzene	9.510	91	2140	0.032	ppbv	97
57)	m,p-Xylene	9.617	91	4010	0.069	ppbv#	92
58)	Bromoform	9.624	173	1269	0.028	ppbv	89
59)	Styrene	9.821	104	887	0.023	ppbv#	81
60)	1,1,2,2-Tetrachloroethane	9.882	83	1732	0.044	ppbv#	85
61)	o-Xylene	9.882	91	1825	0.034	ppbv#	86
64)	Isopropylbenzene	10.208	105	2530	0.037	ppbv	93
66)	4-Ethyltoluene	10.546	105	2341	0.031	ppbv	93
67)	1,3,5-Trimethylbenzene	10.584	105	2288	0.035	ppbv#	84
68)	1,2,4-Trimethylbenzene	10.784	105	2002	0.030	ppbv#	83
70)	Benzyl chloride	10.848	91	1513	0.027	ppbv#	87
71)	1,3-Dichlorobenzene	10.848	146	1743	0.039	ppbv	96
72)	1,4-Dichlorobenzene	10.886	146	1539	0.036	ppbv#	94
73)	sec-Butylbenzene	10.919	105	2765	0.031	ppbv#	91
74)	4-Isopropyltoluene	11.000	119	2499	0.030	ppbv#	88
75)	1,2-Dichlorobenzene	11.049	146	1879	0.045	ppbv#	90
76)	n-Butylbenzene	11.205	91	2189	0.030	ppbv#	90
77)	1,2,4-Trichlorobenzene	11.889	180	1021	0.039	ppbv	87
79)	Hexachlorobutadiene	12.118	225	1849	0.047	ppbv	97
81]	1,2-Dichlorotetrafluor...	1.658	85	1405	0.030	ppbv	88
82]	Vinyl Chloride(sim)	1.706	62	281	0.021	ppbv#	43
83]	Bromomethane(sim)	1.862	94	680	0.037	ug/l	93
84]	Trichlorofluoromethane...	2.240	101	2504	0.042	ppbv	96
85]	Trans-1,2-Dichloroethe...	3.101	61	733	0.029	ppbv	94
86]	1,1-Dichloroethene(sim)	2.528	61	852	0.034	ppbv#	79
87]	1,1-Dichloroethane(sim)	3.221	63	809	0.029	ppbv	99
88]	Cis-1,2-Dichloroethene...	3.821	61	602m	0.029	ppbv	
89]	1,2-Dichloroethane(sim)	4.771	62	1142	0.038	ppbv#	56
90]	1,1,1-Trichloroethane(...	5.038	97	1200m	0.027	ppbv	
91]	Carbon Tetrachloride(sim)	5.670	117	1543	0.029	ppbv	100
92]	Trichlorotrifluoroetha...	2.732	101	1347	0.036	ppbv#	68
95]	Bromodichloromethane(sim)	6.476	83	959	0.021	ppbv	95
96]	Trichloroethene(sim)	6.523	130	607m	0.030	ppbv	
97]	1,4-Dioxane(sim)	6.776	88	388m	0.038	ppbv	
98]	cis-1,3-Dichloropropen...	7.250	75	743m	0.029	ppbv	
99]	1,1,2-Trichloroethane(...	7.774	97	603	0.025	ppbv	97
100]	Dibromochloromethane(sim)	8.251	129	1073	0.023	ppbv	99
101]	1,2-Dibromoethane(EDB)...	8.426	107	1214	0.030	ppbv	96
102]	Tetrachloroethene(sim)	8.775	166	850m	0.031	ppbv	
104]	Bromoform(sim)	9.624	173	1269	0.025	ppbv	83
105]	1,1,1,2-Tetrachloroeth...	9.240	131	759	0.026	ppbv	92
106]	m,p-Xylene(sim)	9.617	91	4010	0.064	ppbv#	92
107]	1,1,2,2-Tetrachloroeth...	9.877	83	1904	0.039	ppbv	95
110]	Benzyl chloride(sim)	10.848	91	1513	0.026	ppbv	87
111]	1,3-Dichlorobenzene(sim)	10.851	146	1953	0.037	ppbv#	95
112]	1,4-Dichlorobenzene(sim)	10.886	146	1539	0.035	ppbv	94
113]	sec-Butylbenzene(sim)	10.922	105	3194	0.031	ppbv	92
114]	4-Isopropyltoluene(sim)	11.000	119	2499	0.028	ppbv#	88
115]	1,2-Dichlorobenzene(sim)	11.051	146	2240	0.045	ppbv	94
116]	n-Butylbenzene(sim)	11.205	91	2189	0.027	ppbv	90
117]	1,2,4-Trichlorobenzene...	11.892	180	1229	0.045	ppbv	95
119]	Hexachlorobutadiene(sim)	12.116	225	2121	0.047	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_03.D
Acq On : 11 Apr 2017 7:43 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 08:55:47 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:34 2017
Response via : Initial Calibration

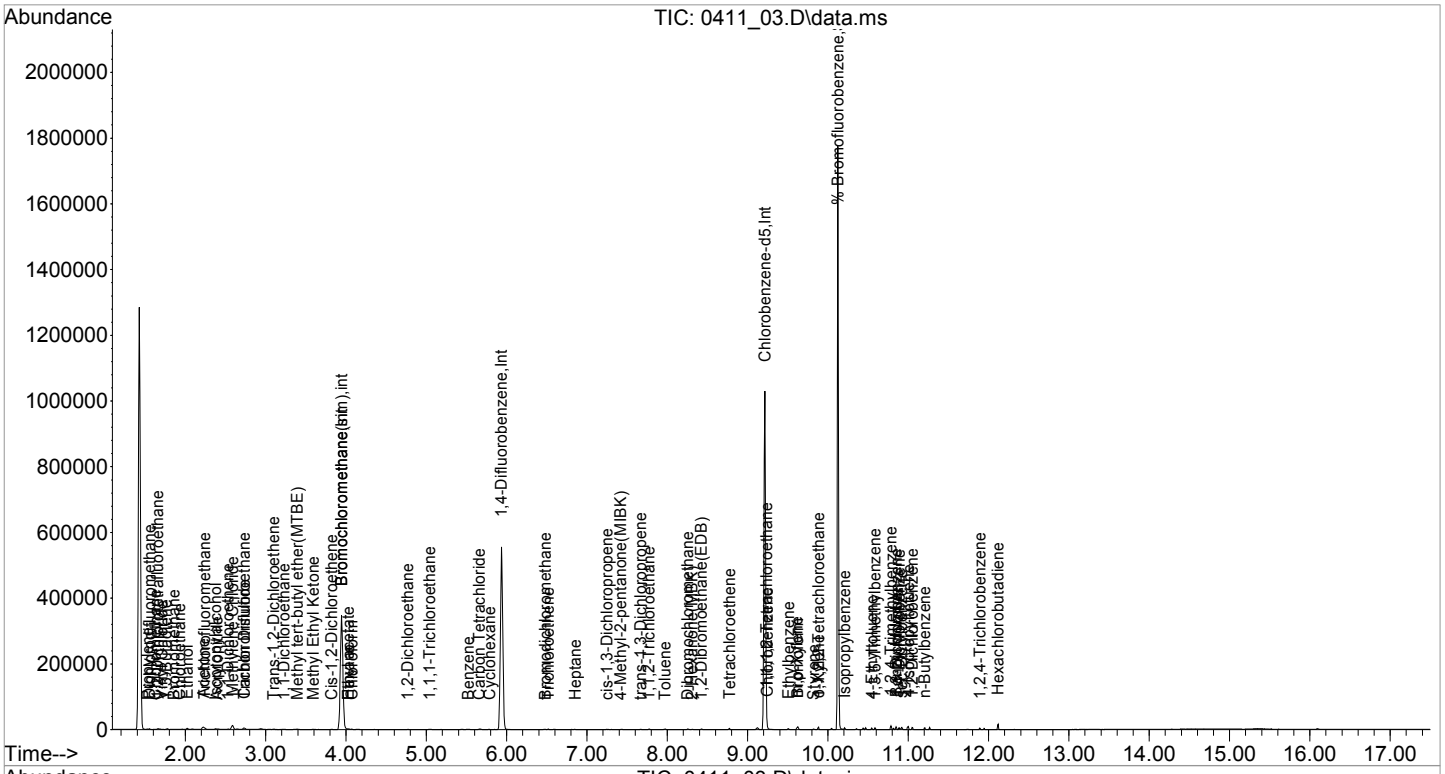
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

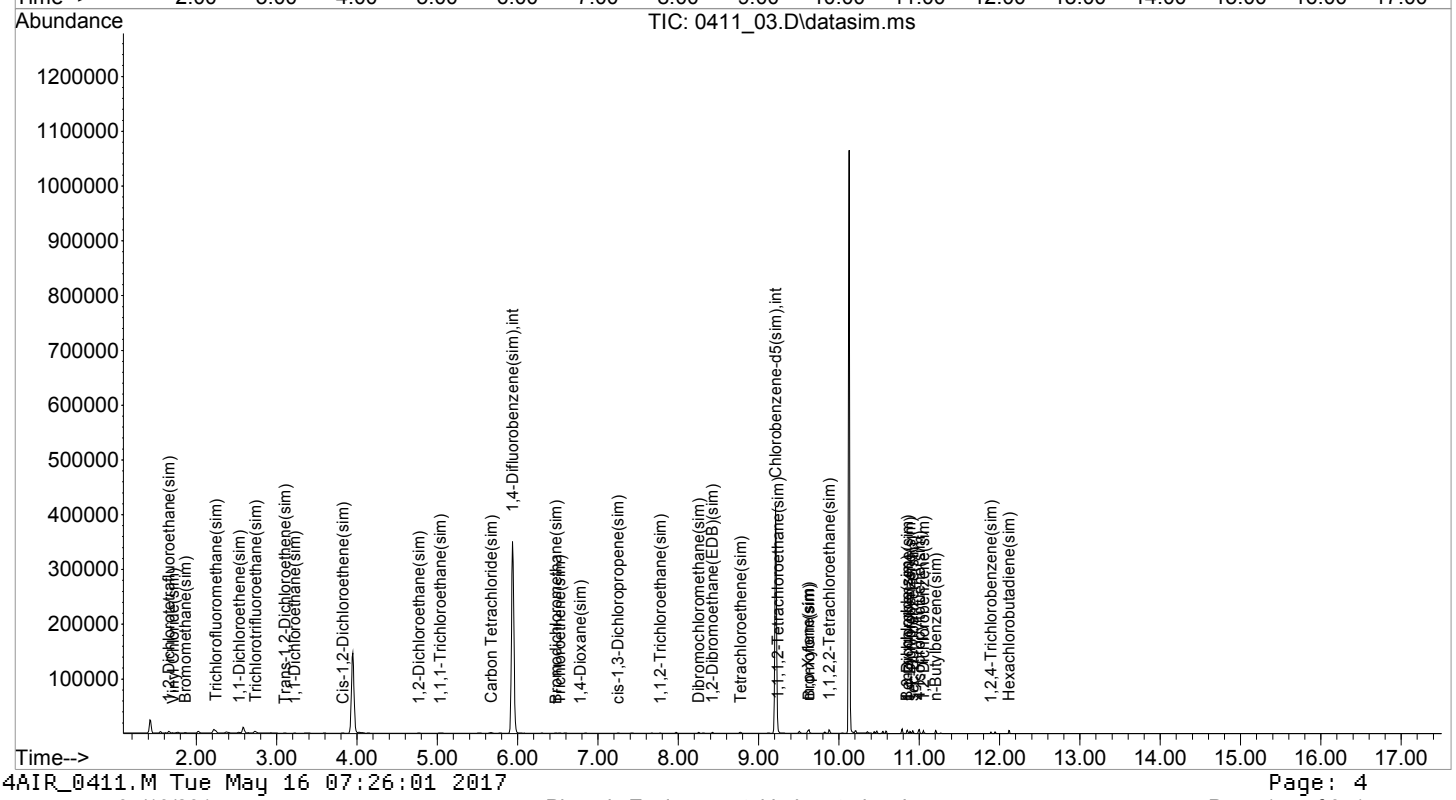
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_03.D
Acq On : 11 Apr 2017 7:43 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035 ppb
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 08:55:47 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:34 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_04.D
Acq On : 11 Apr 2017 8:14 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 08:49:41 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:48:49 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	138493	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	452106	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	232943	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	138493	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	497953	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	247463	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.124	95	321928	10.958	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.60%				
Target Compounds							Qvalue
2) Propylene	1.528	41	342	0.042	ppbv	#	76
3) Dichlorodifluoromethane	1.554	85	1931	0.036	ppbv	#	91
5) 1,2-Dichlorotetrafluor...	1.655	85	1385	0.031	ppbv	#	83
6) Vinyl Chloride	1.698	62	425	0.031	ppbv	#	43
7) 1,3-Butadiene	1.749	54	301	0.035	ppbv	#	23
8) Bromomethane	1.859	94	600	0.034	ppbv	#	92
10) Ethanol	2.020	45	1971	0.429	ppbv		94
12) Acetone	2.215	43	4583	0.210	ppbv		93
13) Trichlorofluoromethane	2.240	101	2802	0.048	ppbv		93
14) Isopropylalcohol	2.367	45	1168	0.057	ppbv	#	20
16) 1,1-Dichloroethene	2.528	61	1029	0.039	ppbv	#	69
17) Methylene Chloride	2.579	49	7299	0.455	ppbv		88
20) Carbon Disulfide	2.723	76	1525	0.039	ppbv	#	69
21) Trichlorotrifluoroethane	2.731	101	1561	0.042	ppbv		88
22) Trans-1,2-Dichloroethene	3.098	61	661	0.030	ppbv	#	66
23) 1,1-Dichloroethane	3.224	63	862	0.032	ppbv		78
24) Methyl tert-butyl ethe...	3.398	73	281	0.007	ppbv	#	53
25) Methyl Ethyl Ketone	3.591	43	559	0.024	ppbv	#	60
26) Cis-1,2-Dichloroethene	3.825	61	613	0.028	ppbv	#	57
27) Hexane	4.025	57	1089	0.070	ppbv	#	92
28) Chloroform	4.071	83	1433	0.036	ppbv	#	69
29) Ethyl acetate	4.025	43	577	0.022	ppbv	#	67
31) 1,2-Dichloroethane	4.775	62	720	0.023	ppbv	#	45
32) 1,1,1-Trichloroethane	5.049	97	1258	0.028	ppbv	#	86
33) Benzene	5.519	78	1525	0.036	ppbv	#	83
34) Carbon Tetrachloride	5.667	117	1702	0.033	ppbv		96
35) Cyclohexane	5.786	56	272	0.016	ppbv	#	58
37) 1,2-dichloropropane	6.292	63	110	0.010	ppbv	#	27
38) Bromodichloromethane	6.473	83	934	0.021	ppbv	#	73
39) Trichloroethene	6.526	130	550	0.026	ppbv	#	80
43) Heptane	6.847	71	129	0.011	ppbv	#	62
44) cis-1,3-Dichloropropene	7.253	75	434	0.015	ppbv	#	44
45) 4-Methyl-2-pentanone(M...	7.420	43	421	0.014	ppbv	#	47
46) trans-1,3-Dichloropropene	7.668	75	580	0.019	ppbv	#	45
47) 1,1,2-Trichloroethane	7.771	97	150	0.007	ppbv	#	49
48) Toluene	7.977	91	1120	0.022	ppbv	#	89
49) Dibromochloromethane	8.258	129	784	0.016	ppbv	#	83
50) 2-Hexanone(MBK)	8.299	43	456	0.016	ppbv	#	74
51) 1,2-Dibromoethane(EDB)	8.430	107	872	0.023	ppbv		80
52) Tetrachloroethene	8.766	166	427	0.014	ppbv	#	71
54) 1,1,1,2-Tetrachloroethane	9.237	131	235	0.010	ppbv	#	50
55) Chlorobenzene	9.245	112	1246	0.032	ppbv	#	1

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_04.D
Acq On : 11 Apr 2017 8:14 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 08:49:41 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:48:49 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Ethylbenzene	9.510	91	1438	0.023	ppbv	83
57) m,p-Xylene	9.624	91	2863	0.053	ppbv	93
58) Bromoform	9.624	173	996	0.024	ppbv#	87
59) Styrene	9.829	104	901	0.025	ppbv#	96
60) 1,1,2,2-Tetrachloroethane	9.882	83	1426	0.039	ppbv#	80
61) o-Xylene	9.882	91	1229	0.024	ppbv#	81
64) Isopropylbenzene	10.208	105	1843	0.029	ppbv	92
66) 4-Ethyltoluene	10.546	105	2399	0.034	ppbv	91
67) 1,3,5-Trimethylbenzene	10.583	105	2031	0.033	ppbv	90
68) 1,2,4-Trimethylbenzene	10.783	105	1798	0.029	ppbv	93
70) Benzyl chloride	10.848	91	1527	0.029	ppbv#	83
71) 1,3-Dichlorobenzene	10.848	146	1698	0.041	ppbv#	95
72) 1,4-Dichlorobenzene	10.886	146	1675	0.042	ppbv	95
73) sec-Butylbenzene	10.919	105	2776	0.034	ppbv#	86
74) 4-Isopropyltoluene	11.000	119	2500	0.032	ppbv#	91
75) 1,2-Dichlorobenzene	11.048	146	1804	0.046	ppbv#	89
76) n-Butylbenzene	11.205	91	1981	0.029	ppbv#	91
77) 1,2,4-Trichlorobenzene	11.889	180	888	0.037	ppbv	94
79) Hexachlorobutadiene	12.118	225	1925	0.053	ppbv	99
81] 1,2-Dichlorotetrafluor...	1.658	85	1468	0.033	ppbv	90
82] Vinyl Chloride(sim)	1.698	62	425	0.037	ppbv#	43
83] Bromomethane(sim)	1.862	94	743	0.041	ug/l	99
84] Trichlorofluoromethane...	2.240	101	2802	0.045	ppbv	93
85] Trans-1,2-Dichloroethe...	3.094	61	864	0.038	ppbv	91
86] 1,1-Dichloroethene(sim)	2.528	61	1029	0.042	ppbv#	69
87] 1,1-Dichloroethane(sim)	3.221	63	1071	0.042	ppbv	100
88] Cis-1,2-Dichloroethene...	3.825	61	613	0.032	ppbv#	57
89] 1,2-Dichloroethane(sim)	4.771	62	923m	0.031	ppbv	
90] 1,1,1-Trichloroethane(...	5.044	97	1727m	0.043	ppbv	
91] Carbon Tetrachloride(sim)	5.670	117	1975	0.040	ppbv	99
92] Trichlorotrifluoroetha...	2.731	101	1561	0.043	ppbv	97
94] 1,2-dichloropropane(sim)	6.309	63	410m	0.043	ppbv	
95] Bromodichloromethane(sim)	6.476	83	1034	0.024	ppbv	95
96] Trichloroethene(sim)	6.523	130	677m	0.037	ppbv	
97] 1,4-Dioxane(sim)	6.776	88	304	0.031	ppbv#	67
98] cis-1,3-Dichloropropen...	7.253	75	434	0.018	ppbv#	44
99] 1,1,2-Trichloroethane(...	7.774	97	376	0.016	ppbv	99
100] Dibromochloromethane(sim)	8.258	129	784	0.018	ppbv	89
101] 1,2-Dibromoethane(EDB)...	8.426	107	1062	0.029	ppbv	97
102] Tetrachloroethene(sim)	8.775	166	614m	0.023	ppbv	
104] Bromoform(sim)	9.624	173	996	0.021	ppbv	87
105] 1,1,1,2-Tetrachloroeth...	9.240	131	395	0.015	ppbv	80
106] m,p-Xylene(sim)	9.624	91	2863	0.049	ppbv	93
107] 1,1,2,2-Tetrachloroeth...	9.877	83	1704	0.037	ppbv	94
110] Benzyl chloride(sim)	10.848	91	1527	0.029	ppbv	83
111] 1,3-Dichlorobenzene(sim)	10.851	146	1934	0.040	ppbv#	94
112] 1,4-Dichlorobenzene(sim)	10.886	146	1675	0.041	ppbv	95
113] sec-Butylbenzene(sim)	10.922	105	2908	0.032	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	2500	0.032	ppbv#	91
115] 1,2-Dichlorobenzene(sim)	11.051	146	2071	0.041	ppbv	94
116] n-Butylbenzene(sim)	11.205	91	1981	0.026	ppbv	91
117] 1,2,4-Trichlorobenzene...	11.892	180	1150	0.045	ppbv	94
119] Hexachlorobutadiene(sim)	12.121	225	2200	0.053	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_04.D
Acq On : 11 Apr 2017 8:14 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 08:49:41 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:48:49 2017
Response via : Initial Calibration

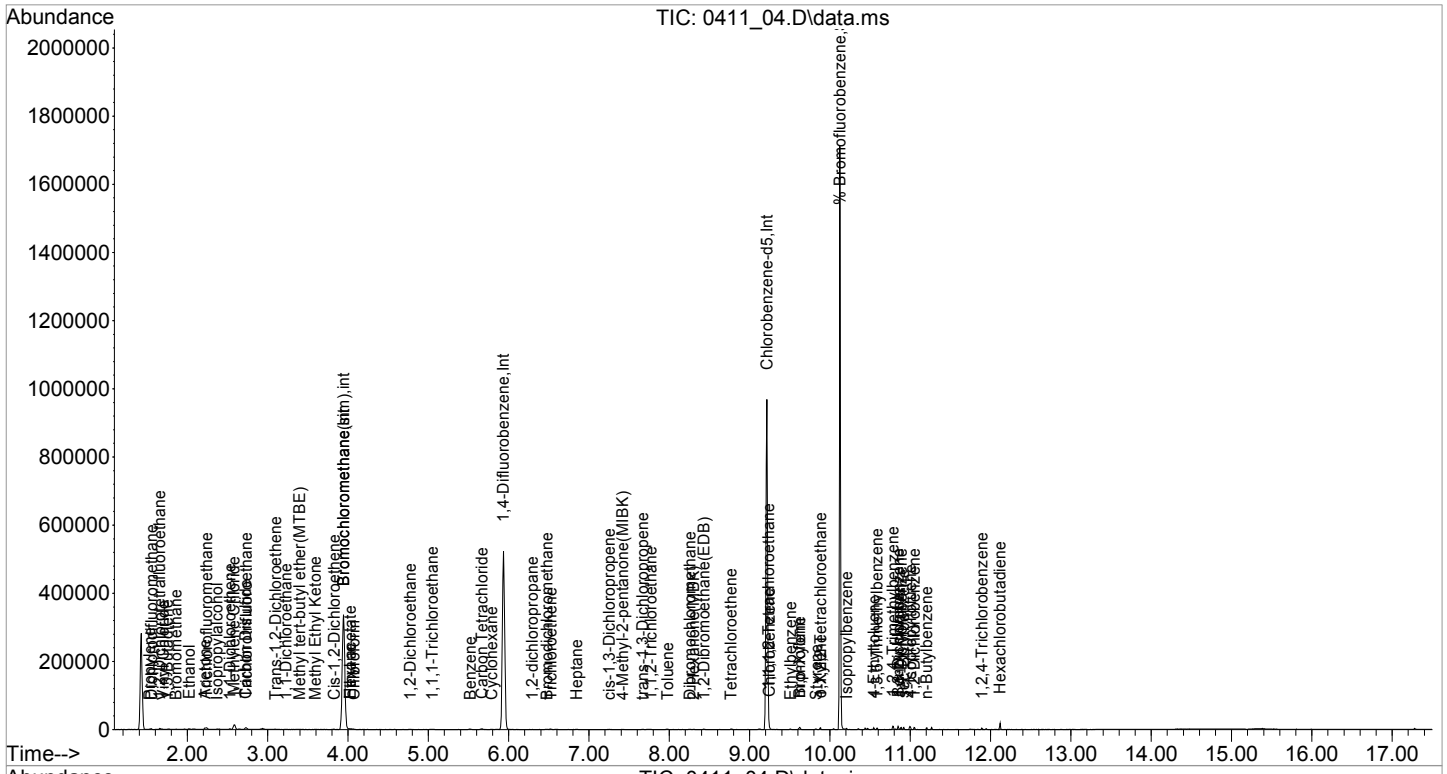
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

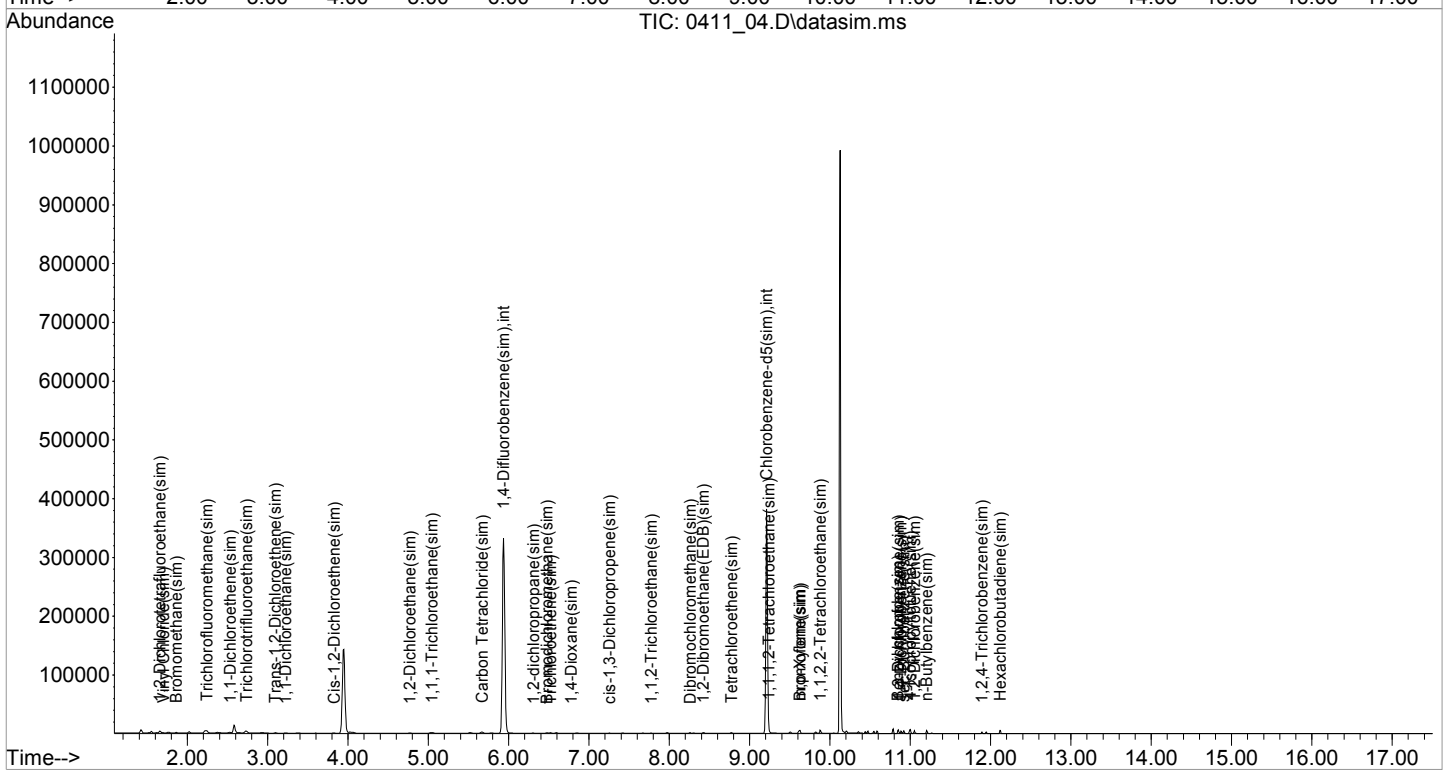
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_04.D
Acq On : 11 Apr 2017 8:14 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05 ppb
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 08:49:41 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:48:49 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_05.D
Acq On : 11 Apr 2017 8:45 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 08:50:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:49:56 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	141705	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	467226	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	242942	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	141705	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	511706	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	258435	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	323680	10.564	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.60%				
Target Compounds							Qvalue
2) Propylene	1.528	41	728	0.088	ppbv		86
3) Dichlorodifluoromethane	1.554	85	4950	0.090	ppbv#		96
4) Chloromethane	1.613	52	316	0.085	ppbv#		70
5) 1,2-Dichlorotetrafluor...	1.656	85	3526	0.076	ppbv		89
6) Vinyl Chloride	1.706	62	1063	0.075	ppbv		86
7) 1,3-Butadiene	1.749	54	802	0.092	ppbv#		82
8) Bromomethane	1.859	94	1568	0.088	ppbv#		92
9) Chloroethane	1.927	64	513	0.084	ppbv#		67
10) Ethanol	2.020	45	2342	0.498	ppbv		94
12) Acetone	2.215	43	8285	0.372	ppbv		97
13) Trichlorofluoromethane	2.240	101	6144	0.103	ppbv		97
14) Isopropylalcohol	2.367	45	2523	0.120	ppbv#		88
15) Acrylonitrile	2.393	53	452	0.056	ppbv#		72
16) 1,1-Dichloroethene	2.528	61	2167	0.081	ppbv		96
17) Methylene Chloride	2.587	49	5937	0.362	ppbv#		84
20) Carbon Disulfide	2.723	76	3102	0.078	ppbv#		92
21) Trichlorotrifluoroethane	2.732	101	3399	0.090	ppbv		88
22) Trans-1,2-Dichloroethene	3.098	61	1662	0.075	ppbv		88
23) 1,1-Dichloroethane	3.224	63	2009	0.073	ppbv		96
24) Methyl tert-butyl ethe...	3.378	73	3083	0.074	ppbv#		92
25) Methyl Ethyl Ketone	3.585	43	2314	0.098	ppbv#		90
26) Cis-1,2-Dichloroethene	3.818	61	1461	0.066	ppbv#		82
27) Hexane	4.025	57	1750	0.109	ppbv#		91
28) Chloroform	4.065	83	2880	0.071	ppbv		97
29) Ethyl acetate	4.025	43	896	0.033	ppbv#		67
30) Tetrahydrofuran	4.558	42	711	0.065	ppbv#		41
31) 1,2-Dichloroethane	4.768	62	1985	0.063	ppbv#		78
32) 1,1,1-Trichloroethane	5.035	97	3185	0.068	ppbv		98
33) Benzene	5.519	78	3033	0.071	ppbv#		89
34) Carbon Tetrachloride	5.660	117	3782	0.072	ppbv		93
35) Cyclohexane	5.786	56	1024	0.058	ppbv		99
37) 1,2-dichloropropane	6.299	63	669	0.061	ppbv		96
38) Bromodichloromethane	6.473	83	2796	0.062	ppbv		97
39) Trichloroethene	6.520	130	1441	0.065	ppbv#		89
43) Heptane	6.853	71	462	0.038	ppbv#		54
44) cis-1,3-Dichloropropene	7.253	75	1682	0.057	ppbv		85
45) 4-Methyl-2-pentanone(M...	7.407	43	1741	0.058	ppbv#		80
46) trans-1,3-Dichloropropene	7.668	75	1888	0.060	ppbv#		85
47) 1,1,2-Trichloroethane	7.771	97	1314	0.062	ppbv		92
48) Toluene	7.970	91	3581	0.067	ppbv#		95
49) Dibromochloromethane	8.251	129	3618	0.072	ppbv		92
50) 2-Hexanone(MBK)	8.299	43	1552	0.052	ppbv#		85

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_05.D
Acq On : 11 Apr 2017 8:45 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 08:50:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:49:56 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	1,2-Dibromoethane(EDB)	8.423	107	2915	0.075	ppbv	90
52)	Tetrachloroethene	8.773	166	2310	0.072	ppbv#	89
54)	1,1,1,2-Tetrachloroethane	9.238	131	1871	0.075	ppbv	96
55)	Chlorobenzene	9.245	112	3837	0.095	ppbv#	1
56)	Ethylbenzene	9.503	91	5442	0.084	ppbv	96
57)	m,p-Xylene	9.624	91	9639	0.172	ppbv#	88
58)	Bromoform	9.624	173	3289	0.075	ppbv	96
59)	Styrene	9.821	104	2224	0.060	ppbv	91
60)	1,1,2,2-Tetrachloroethane	9.882	83	4149	0.108	ppbv#	85
61)	o-Xylene	9.882	91	4315	0.082	ppbv	97
64)	Isopropylbenzene	10.208	105	6280	0.094	ppbv	93
66)	4-Ethyltoluene	10.546	105	5629	0.076	ppbv	96
67)	1,3,5-Trimethylbenzene	10.584	105	5170	0.081	ppbv	89
68)	1,2,4-Trimethylbenzene	10.784	105	4645	0.072	ppbv#	90
70)	Benzyl chloride	10.843	91	3256	0.059	ppbv#	89
71)	1,3-Dichlorobenzene	10.848	146	3929	0.091	ppbv	96
72)	1,4-Dichlorobenzene	10.886	146	3425	0.082	ppbv	96
73)	sec-Butylbenzene	10.919	105	7280	0.085	ppbv#	93
74)	4-Isopropyltoluene	11.000	119	6084	0.075	ppbv#	89
75)	1,2-Dichlorobenzene	11.049	146	3562	0.087	ppbv	89
76)	n-Butylbenzene	11.205	91	4804	0.067	ppbv#	89
77)	1,2,4-Trichlorobenzene	11.889	180	1271	0.051	ppbv	96
79)	Hexachlorobutadiene	12.113	225	3777	0.099	ppbv	99
81]	1,2-Dichlorotetrafluor...	1.658	85	4002	0.097	ppbv	89
82]	Vinyl Chloride(sim)	1.706	62	1063	0.097	ppbv#	86
83]	Bromomethane(sim)	1.862	94	1724	0.097	ug/l	98
84]	Trichlorofluoromethane...	2.240	101	6144	0.099	ppbv	98
85]	Trans-1,2-Dichloroethe...	3.101	61	1901	0.089	ppbv	95
86]	1,1-Dichloroethene(sim)	2.528	61	2167	0.090	ppbv	96
87]	1,1-Dichloroethane(sim)	3.221	63	2369	0.095	ppbv	99
88]	Cis-1,2-Dichloroethene...	3.818	61	1461	0.082	ppbv#	82
89]	1,2-Dichloroethane(sim)	4.771	62	2700	0.097	ppbv#	84
90]	1,1,1-Trichloroethane(...	5.035	97	3185	0.080	ppbv#	98
91]	Carbon Tetrachloride(sim)	5.663	117	4259	0.089	ppbv	99
92]	Trichlorotrifluoroetha...	2.732	101	3399	0.094	ppbv	99
94]	1,2-dichloropropane(sim)	6.299	63	669	0.071	ppbv	96
95]	Bromodichloromethane(sim)	6.476	83	3209	0.086	ppbv	95
96]	Trichloroethene(sim)	6.520	130	1158	0.066	ppbv#	71
97]	1,4-Dioxane(sim)	6.743	88	827	0.083	ppbv#	78
98]	cis-1,3-Dichloropropen...	7.253	75	1682	0.084	ppbv#	85
99]	1,1,2-Trichloroethane(...	7.774	97	1768	0.075	ppbv	100
100]	Dibromochloromethane(sim)	8.251	129	3618	0.080	ppbv	91
101]	1,2-Dibromoethane(EDB)...	8.426	107	3284	0.097	ppbv	95
102]	Tetrachloroethene(sim)	8.773	166	2310	0.104	ppbv	89
104]	Bromoform(sim)	9.624	173	3289	0.095	ppbv	96
105]	1,1,1,2-Tetrachloroeth...	9.240	131	2200	0.080	ppbv	97
106]	m,p-Xylene(sim)	9.624	91	9639	0.191	ppbv#	88
107]	1,1,2,2-Tetrachloroeth...	9.877	83	4569	0.105	ppbv	96
110]	Benzyl chloride(sim)	10.843	91	3256	0.058	ppbv	89
111]	1,3-Dichlorobenzene(sim)	10.851	146	4245	0.090	ppbv#	94
112]	1,4-Dichlorobenzene(sim)	10.886	146	3425	0.085	ppbv	96
113]	sec-Butylbenzene(sim)	10.916	105	7726	0.088	ppbv	92
114]	4-Isopropyltoluene(sim)	11.000	119	6084	0.082	ppbv#	89
115]	1,2-Dichlorobenzene(sim)	11.051	146	4260	0.085	ppbv	94
116]	n-Butylbenzene(sim)	11.205	91	4804	0.073	ppbv	89

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_05.D
Acq On : 11 Apr 2017 8:45 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 08:50:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:49:56 2017
Response via : Initial Calibration

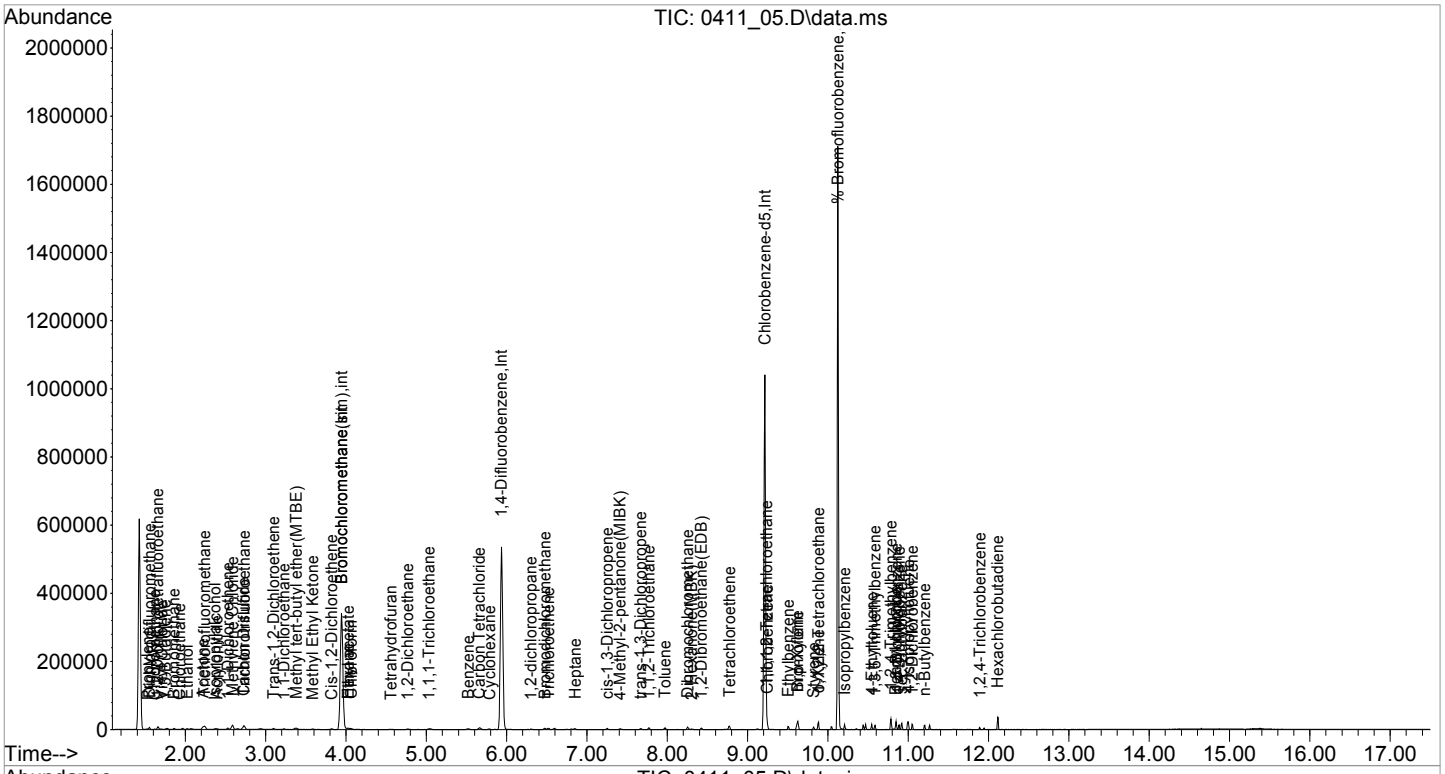
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117] 1,2,4-Trichlorobenzene...	11.887	180	1495	0.059	ppbv	96
119] Hexachlorobutadiene(sim)	12.116	225	4423	0.100	ppbv	98

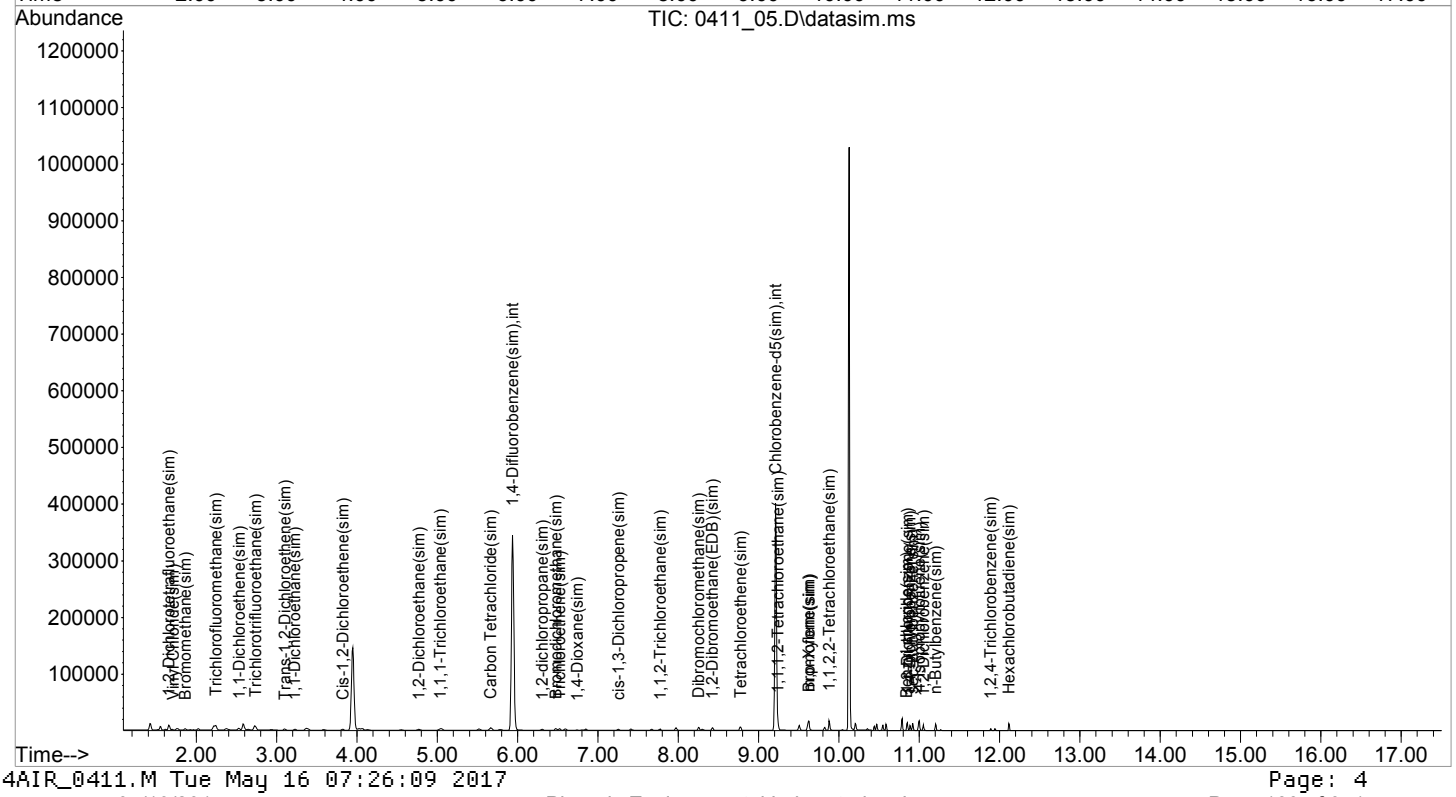
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_05.D
Acq On : 11 Apr 2017 8:45 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.1 ppb
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 08:50:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:49:56 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_06.D
Acq On : 11 Apr 2017 9:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.2ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:54:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:50:43 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	138185	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	465366	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	238171	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	138185	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	509686	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	251602	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	330764	11.012	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.10%				
Target Compounds							Qvalue
2) Propylene	1.520	41	1378	0.171	ppbv	#	80
3) Dichlorodifluoromethane	1.554	85	10706	0.199	ppbv		99
4) Chloromethane	1.613	52	694	0.192	ppbv	#	83
5) 1,2-Dichlorotetrafluor...	1.656	85	7505	0.166	ppbv		95
6) Vinyl Chloride	1.698	62	2609	0.190	ppbv		94
7) 1,3-Butadiene	1.749	54	1382	0.162	ppbv		82
8) Bromomethane	1.859	94	3195	0.184	ppbv	#	97
9) Chloroethane	1.927	64	1198	0.201	ppbv		93
10) Ethanol	2.020	45	2489	0.542	ppbv		94
12) Acetone	2.215	43	10075	0.464	ppbv		99
13) Trichlorofluoromethane	2.240	101	11503	0.197	ppbv		97
14) Isopropylalcohol	2.359	45	4692	0.228	ppbv	#	74
15) Acrylonitrile	2.384	53	1181	0.150	ppbv		96
16) 1,1-Dichloroethene	2.528	61	5105	0.196	ppbv		90
17) Methylene Chloride	2.579	49	7028	0.439	ppbv	#	81
20) Carbon Disulfide	2.723	76	7165	0.185	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	7652	0.208	ppbv		87
22) Trans-1,2-Dichloroethene	3.098	61	3925	0.181	ppbv		89
23) 1,1-Dichloroethane	3.225	63	5340	0.200	ppbv		96
24) Methyl tert-butyl ethe...	3.378	73	5613	0.139	ppbv		95
25) Methyl Ethyl Ketone	3.571	43	4053	0.176	ppbv	#	95
26) Cis-1,2-Dichloroethene	3.818	61	3797	0.176	ppbv		87
27) Hexane	4.025	57	3245	0.208	ppbv	#	91
28) Chloroform	4.058	83	7654	0.192	ppbv		99
29) Ethyl acetate	4.125	43	3336m	0.126	ppbv		
30) Tetrahydrofuran	4.532	42	1551	0.145	ppbv	#	81
31) 1,2-Dichloroethane	4.761	62	5107	0.166	ppbv	#	90
32) 1,1,1-Trichloroethane	5.042	97	8553	0.188	ppbv		98
33) Benzene	5.519	78	7775	0.186	ppbv		98
34) Carbon Tetrachloride	5.667	117	9568	0.186	ppbv		99
35) Cyclohexane	5.772	56	2547	0.148	ppbv		100
37) 1,2-dichloropropane	6.299	63	2069	0.190	ppbv		94
38) Bromodichloromethane	6.473	83	7605	0.169	ppbv		94
39) Trichloroethene	6.513	130	4054	0.184	ppbv		90
41) 1,4-Dioxane	6.707	88	1064	0.109	ppbv	#	80
43) Heptane	6.853	71	1766	0.146	ppbv	#	85
44) cis-1,3-Dichloropropene	7.247	75	4067	0.139	ppbv		91
45) 4-Methyl-2-pentanone(M...	7.400	43	4410	0.147	ppbv	#	90
46) trans-1,3-Dichloropropene	7.668	75	4198	0.133	ppbv	#	93
47) 1,1,2-Trichloroethane	7.771	97	3270	0.155	ppbv		97
48) Toluene	7.970	91	8188	0.154	ppbv		93
49) Dibromochloromethane	8.251	129	7096	0.141	ppbv		98

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_06.D
Acq On : 11 Apr 2017 9:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.2ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:54:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:50:43 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.286	43	3774	0.128	ppbv#	95
51) 1,2-Dibromoethane(EDB)	8.423	107	6174	0.159	ppbv	99
52) Tetrachloroethene	8.766	166	4924	0.155	ppbv#	86
54) 1,1,1,2-Tetrachloroethane	9.238	131	3862	0.157	ppbv	95
55) Chlorobenzene	9.245	112	8044	0.204	ppbv	95
56) Ethylbenzene	9.503	91	10992	0.174	ppbv	96
57) m,p-Xylene	9.617	91	19715	0.358	ppbv	91
58) Bromoform	9.624	173	7136	0.166	ppbv	99
59) Styrene	9.821	104	4857	0.134	ppbv	90
60) 1,1,2,2-Tetrachloroethane	9.874	83	7804	0.207	ppbv	91
61) o-Xylene	9.882	91	8605	0.168	ppbv	96
64) Isopropylbenzene	10.208	105	12340	0.189	ppbv	97
66) 4-Ethyltoluene	10.546	105	12327	0.171	ppbv	94
67) 1,3,5-Trimethylbenzene	10.584	105	10925	0.175	ppbv	93
68) 1,2,4-Trimethylbenzene	10.784	105	10405	0.164	ppbv#	90
70) Benzyl chloride	10.843	91	7225	0.133	ppbv#	87
71) 1,3-Dichlorobenzene	10.849	146	7562	0.179	ppbv#	93
72) 1,4-Dichlorobenzene	10.881	146	7176	0.175	ppbv	94
73) sec-Butylbenzene	10.919	105	14953	0.178	ppbv#	91
74) 4-Isopropyltoluene	11.000	119	13575	0.171	ppbv#	90
75) 1,2-Dichlorobenzene	11.049	146	7764	0.193	ppbv#	94
76) n-Butylbenzene	11.200	91	11255	0.160	ppbv#	88
77) 1,2,4-Trichlorobenzene	11.889	180	2670	0.109	ppbv#	97
79) Hexachlorobutadiene	12.114	225	7492	0.201	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.659	85	8472	0.212	ppbv	89
82] Vinyl Chloride(sim)	1.698	62	2609	0.245	ppbv	94
83] Bromomethane(sim)	1.862	94	3537	0.205	ug/l	100
84] Trichlorofluoromethane...	2.240	101	11503	0.191	ppbv	97
85] Trans-1,2-Dichloroethe...	3.094	61	4505	0.223	ppbv	93
86] 1,1-Dichloroethene(sim)	2.528	61	5105	0.222	ppbv	90
87] 1,1-Dichloroethane(sim)	3.221	63	5848	0.243	ppbv	100
88] Cis-1,2-Dichloroethene...	3.818	61	3797	0.228	ppbv	87
89] 1,2-Dichloroethane(sim)	4.764	62	6175	0.229	ppbv	95
90] 1,1,1-Trichloroethane(...	5.042	97	8553	0.230	ppbv#	98
91] Carbon Tetrachloride(sim)	5.663	117	10334	0.227	ppbv	100
92] Trichlorotrifluoroetha...	2.732	101	7652	0.220	ppbv	93
94] 1,2-dichloropropane(sim)	6.299	63	2069	0.238	ppbv	94
95] Bromodichloromethane(sim)	6.476	83	8102	0.226	ppbv	96
96] Trichloroethene(sim)	6.513	130	4054	0.248	ppbv#	89
97] 1,4-Dioxane(sim)	6.710	88	1694	0.179	ppbv#	79
98] cis-1,3-Dichloropropen...	7.247	75	4067	0.213	ppbv#	91
99] 1,1,2-Trichloroethane(...	7.767	97	3870	0.189	ppbv	100
100] Dibromochloromethane(sim)	8.251	129	7096	0.168	ppbv	98
101] 1,2-Dibromoethane(EDB)...	8.426	107	6965	0.208	ppbv	96
102] Tetrachloroethene(sim)	8.766	166	4857	0.217	ppbv#	84
104] Bromoform(sim)	9.624	173	7136	0.215	ppbv	99
105] 1,1,1,2-Tetrachloroeth...	9.233	131	4463	0.178	ppbv	98
106] m,p-Xylene(sim)	9.617	91	19715	0.406	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.877	83	8827	0.205	ppbv	96
110] Benzyl chloride(sim)	10.843	91	7225	0.154	ppbv	87
111] 1,3-Dichlorobenzene(sim)	10.851	146	8606	0.192	ppbv#	94
112] 1,4-Dichlorobenzene(sim)	10.881	146	7176	0.191	ppbv	94
113] sec-Butylbenzene(sim)	10.916	105	16467	0.198	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	13575	0.196	ppbv#	90
115] 1,2-Dichlorobenzene(sim)	11.052	146	9025	0.190	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_06.D
Acq On : 11 Apr 2017 9:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.2ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:54:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:50:43 2017
Response via : Initial Calibration

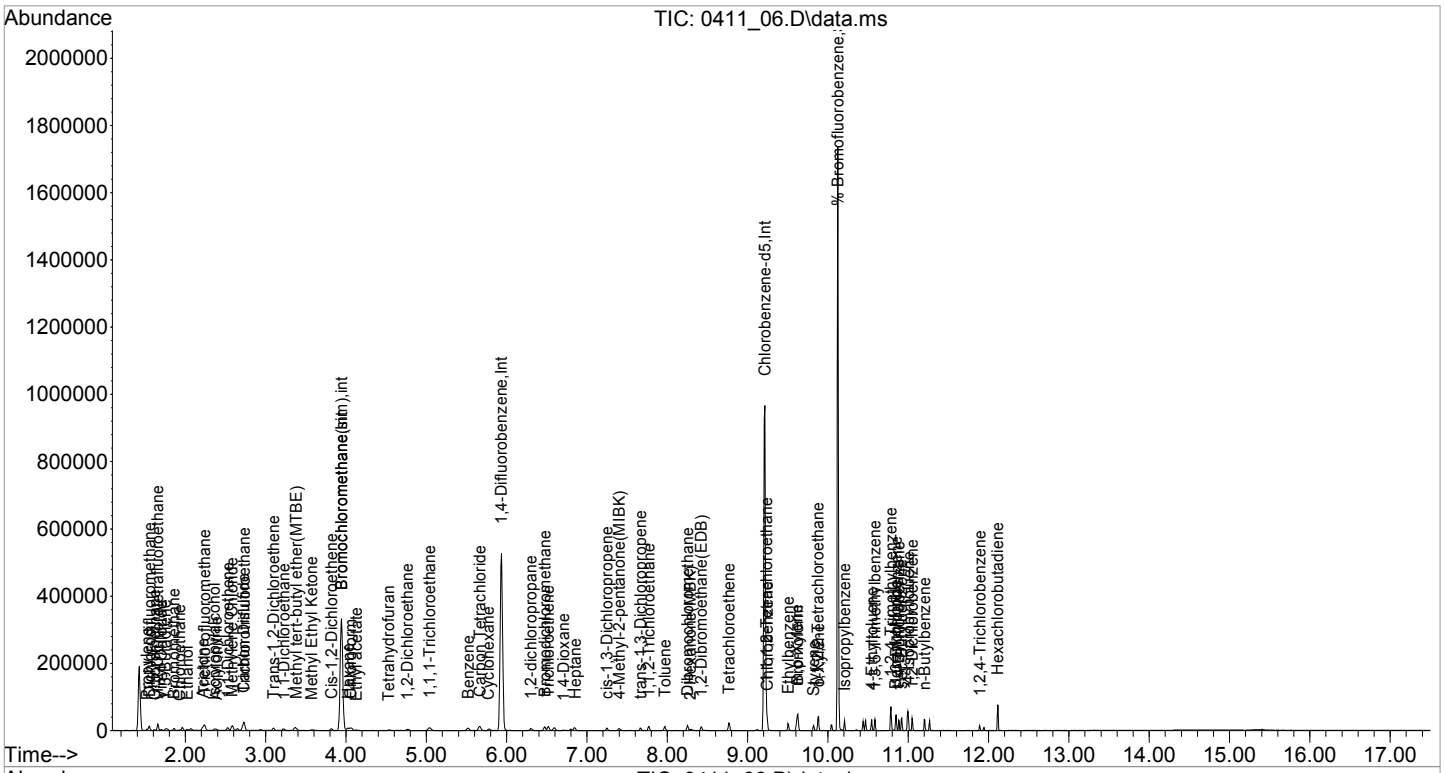
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	11255	0.188	ppbv	88
117] 1,2,4-Trichlorobenzene...	11.887	180	3212	0.151	ppbv	94
119] Hexachlorobutadiene(sim)	12.117	225	8731	0.203	ppbv	98

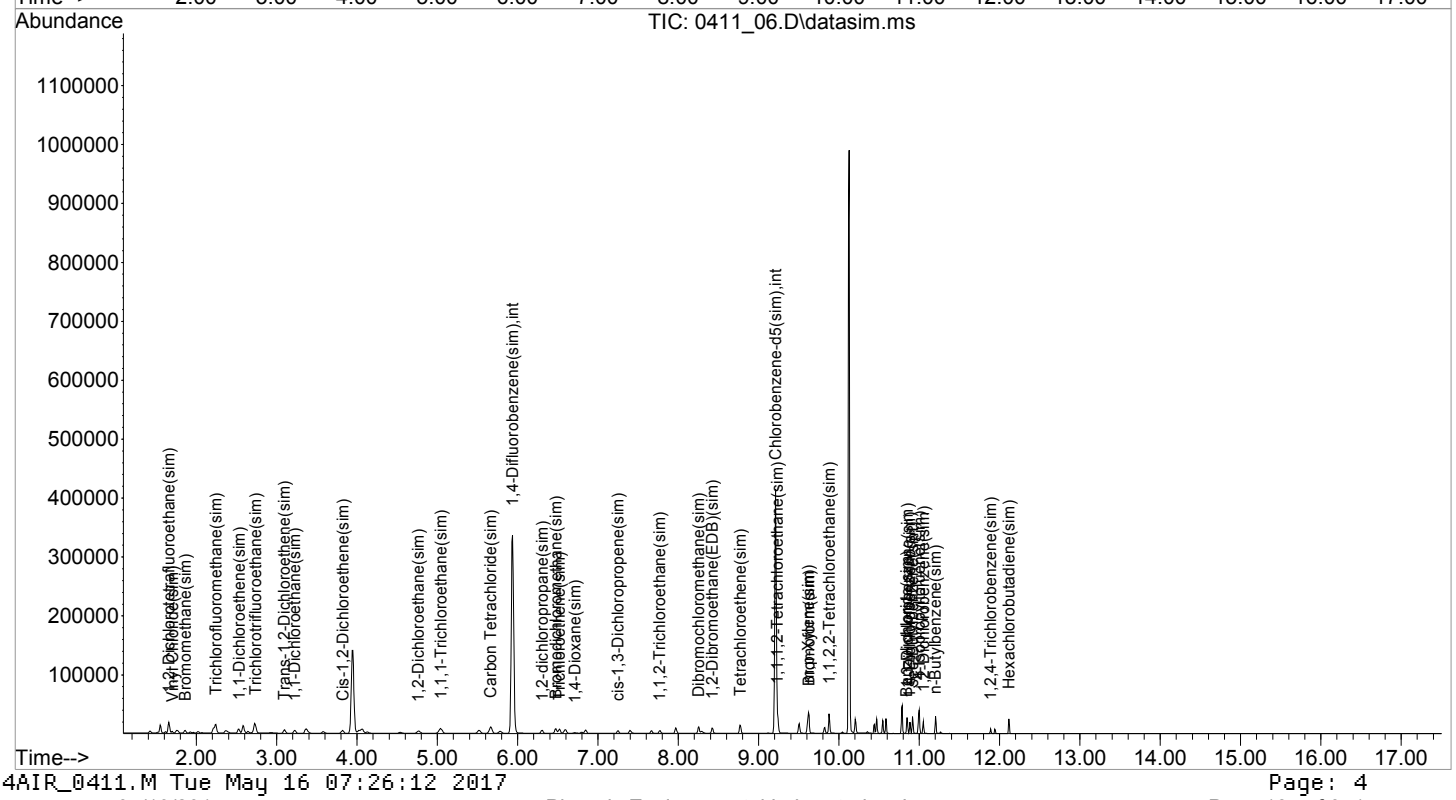
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_06.D
Acq On : 11 Apr 2017 9:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.2ppb
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:54:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:50:43 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_07.D
Acq On : 11 Apr 2017 9:51 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5ppb
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:55:03 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:35 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	141334	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	471478	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	230861	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	141334	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	513886	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	250506	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	336554	11.367	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.70%				
Target Compounds							Qvalue
2) Propylene	1.520	41	3756	0.468	ppbv		94
3) Dichlorodifluoromethane	1.545	85	30709	0.558	ppbv		98
4) Chloromethane	1.613	52	2023	0.552	ppbv#		83
5) 1,2-Dichlorotetrafluor...	1.656	85	25083	0.560	ppbv		93
6) Vinyl Chloride	1.698	62	6876	0.493	ppbv		95
7) 1,3-Butadiene	1.749	54	4534	0.536	ppbv		97
8) Bromomethane	1.850	94	9035	0.515	ppbv#		97
9) Chloroethane	1.927	64	2988	0.489	ppbv		97
10) Ethanol	2.011	45	3916	0.649	ppbv#		91
12) Acetone	2.206	43	18015	0.665	ppbv		98
13) Trichlorofluoromethane	2.240	101	34225	0.574	ppbv		98
14) Isopropylalcohol	2.350	45	12695	0.590	ppbv#		83
15) Acrylonitrile	2.376	53	3987	0.515	ppbv		92
16) 1,1-Dichloroethene	2.528	61	13924	0.524	ppbv		91
17) Methylene Chloride	2.579	49	12310	0.627	ppbv#		86
20) Carbon Disulfide	2.723	76	20690	0.528	ppbv		98
21) Trichlorotrifluoroethane	2.723	101	20565	0.542	ppbv		88
22) Trans-1,2-Dichloroethene	3.091	61	10848	0.498	ppbv		91
23) 1,1-Dichloroethane	3.224	63	14867	0.545	ppbv		97
24) Methyl tert-butyl ethe...	3.358	73	21080	0.538	ppbv		97
25) Methyl Ethyl Ketone	3.558	43	12688	0.550	ppbv		96
26) Cis-1,2-Dichloroethene	3.818	61	10733	0.497	ppbv		88
27) Hexane	4.025	57	8388	0.521	ppbv		91
28) Chloroform	4.065	83	22078	0.546	ppbv		95
29) Ethyl acetate	4.111	43	13069	0.483	ppbv		98
30) Tetrahydrofuran	4.505	42	5003	0.480	ppbv		90
31) 1,2-Dichloroethane	4.768	62	16222	0.530	ppbv#		89
32) 1,1,1-Trichloroethane	5.035	97	23643	0.513	ppbv		98
33) Benzene	5.519	78	21128	0.499	ppbv		99
34) Carbon Tetrachloride	5.660	117	26631	0.512	ppbv		99
35) Cyclohexane	5.786	56	7669	0.456	ppbv		97
37) 1,2-dichloropropane	6.299	63	5641	0.515	ppbv		91
38) Bromodichloromethane	6.473	83	22913	0.515	ppbv		96
39) Trichloroethene	6.520	130	10849	0.493	ppbv#		86
41) 1,4-Dioxane	6.667	88	4482	0.454	ppbv#		48
43) Heptane	6.847	71	5684	0.486	ppbv#		95
44) cis-1,3-Dichloropropene	7.247	75	12315	0.439	ppbv		96
45) 4-Methyl-2-pentanone(M...	7.387	43	13578	0.467	ppbv#		95
46) trans-1,3-Dichloropropene	7.661	75	12331	0.409	ppbv		96
47) 1,1,2-Trichloroethane	7.771	97	10935	0.532	ppbv		99
48) Toluene	7.970	91	25882	0.499	ppbv		96
49) Dibromochloromethane	8.251	129	23152	0.478	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_07.D
Acq On : 11 Apr 2017 9:51 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5ppb
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:55:03 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:35 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.279	43	11760	0.419	ppbv	95
51) 1,2-Dibromoethane(EDB)	8.423	107	18395	0.483	ppbv	99
52) Tetrachloroethene	8.773	166	15292	0.493	ppbv#	88
54) 1,1,1,2-Tetrachloroethane	9.238	131	14066	0.613	ppbv	96
55) Chlorobenzene	9.245	112	22552	0.588	ppbv#	71
56) Ethylbenzene	9.503	91	35027	0.585	ppbv	96
57) m,p-Xylene	9.624	91	62711	1.195	ppbv	90
58) Bromoform	9.624	173	22597	0.557	ppbv	100
59) Styrene	9.821	104	16272	0.491	ppbv	93
60) 1,1,2,2-Tetrachloroethane	9.874	83	23785	0.646	ppbv	95
61) o-Xylene	9.882	91	29703	0.614	ppbv	92
64) Isopropylbenzene	10.208	105	38097	0.606	ppbv	97
66) 4-Ethyltoluene	10.546	105	39007	0.572	ppbv	95
67) 1,3,5-Trimethylbenzene	10.584	105	35491	0.600	ppbv	90
68) 1,2,4-Trimethylbenzene	10.784	105	34159	0.572	ppbv#	89
70) Benzyl chloride	10.843	91	22636	0.456	ppbv#	90
71) 1,3-Dichlorobenzene	10.848	146	22752	0.564	ppbv#	95
72) 1,4-Dichlorobenzene	10.886	146	20199	0.520	ppbv#	93
73) sec-Butylbenzene	10.919	105	48244	0.605	ppbv#	92
74) 4-Isopropyltoluene	11.000	119	42509	0.568	ppbv#	89
75) 1,2-Dichlorobenzene	11.049	146	22191	0.574	ppbv#	95
76) n-Butylbenzene	11.200	91	34713	0.527	ppbv#	91
77) 1,2,4-Trichlorobenzene	11.889	180	8076	0.339	ppbv	98
79) Hexachlorobutadiene	12.118	225	21373	0.591	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.658	85	27578	0.668	ppbv	90
82] Vinyl Chloride(sim)	1.698	62	6876	0.609	ppbv	95
83] Bromomethane(sim)	1.853	94	9908	0.559	ug/l	100
84] Trichlorofluoromethane...	2.240	101	34143	0.559	ppbv	98
85] Trans-1,2-Dichloroethe...	3.094	61	12263	0.580	ppbv	92
86] 1,1-Dichloroethene(sim)	2.528	61	13924	0.582	ppbv	91
87] 1,1-Dichloroethane(sim)	3.221	63	16235	0.636	ppbv	100
88] Cis-1,2-Dichloroethene...	3.818	61	10733	0.615	ppbv	88
89] 1,2-Dichloroethane(sim)	4.764	62	16547	0.586	ppbv	95
90] 1,1,1-Trichloroethane(...	5.035	97	23643	0.607	ppbv#	98
91] Carbon Tetrachloride(sim)	5.663	117	28264	0.594	ppbv	100
92] Trichlorotrifluoroetha...	2.723	101	20565	0.569	ppbv	100
94] 1,2-dichloropropane(sim)	6.299	63	5641	0.621	ppbv	91
95] Bromodichloromethane(sim)	6.476	83	24470	0.661	ppbv	96
96] Trichloroethene(sim)	6.520	130	10848	0.632	ppbv#	91
97] 1,4-Dioxane(sim)	6.656	88	5282	0.565	ppbv#	71
98] cis-1,3-Dichloropropen...	7.247	75	12315	0.632	ppbv	96
99] 1,1,2-Trichloroethane(...	7.767	97	12117	0.598	ppbv	98
100] Dibromochloromethane(sim)	8.251	129	23152	0.567	ppbv	100
101] 1,2-Dibromoethane(EDB)...	8.426	107	20592	0.606	ppbv	96
102] Tetrachloroethene(sim)	8.773	166	15196	0.662	ppbv	88
104] Bromoform(sim)	9.624	173	22515	0.668	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.240	131	15757	0.649	ppbv	99
106] m,p-Xylene(sim)	9.624	91	62711	1.294	ppbv#	90
107] 1,1,2,2-Tetrachloroeth...	9.877	83	26380	0.613	ppbv	95
110] Benzyl chloride(sim)	10.843	91	22636	0.515	ppbv	90
111] 1,3-Dichlorobenzene(sim)	10.851	146	25714	0.580	ppbv#	94
112] 1,4-Dichlorobenzene(sim)	10.886	146	20199	0.544	ppbv	93
113] sec-Butylbenzene(sim)	10.916	105	51766	0.627	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	42509	0.618	ppbv#	89
115] 1,2-Dichlorobenzene(sim)	11.051	146	25612	0.547	ppbv	94

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_07.D
Acq On : 11 Apr 2017 9:51 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5ppb
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:55:03 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:35 2017
Response via : Initial Calibration

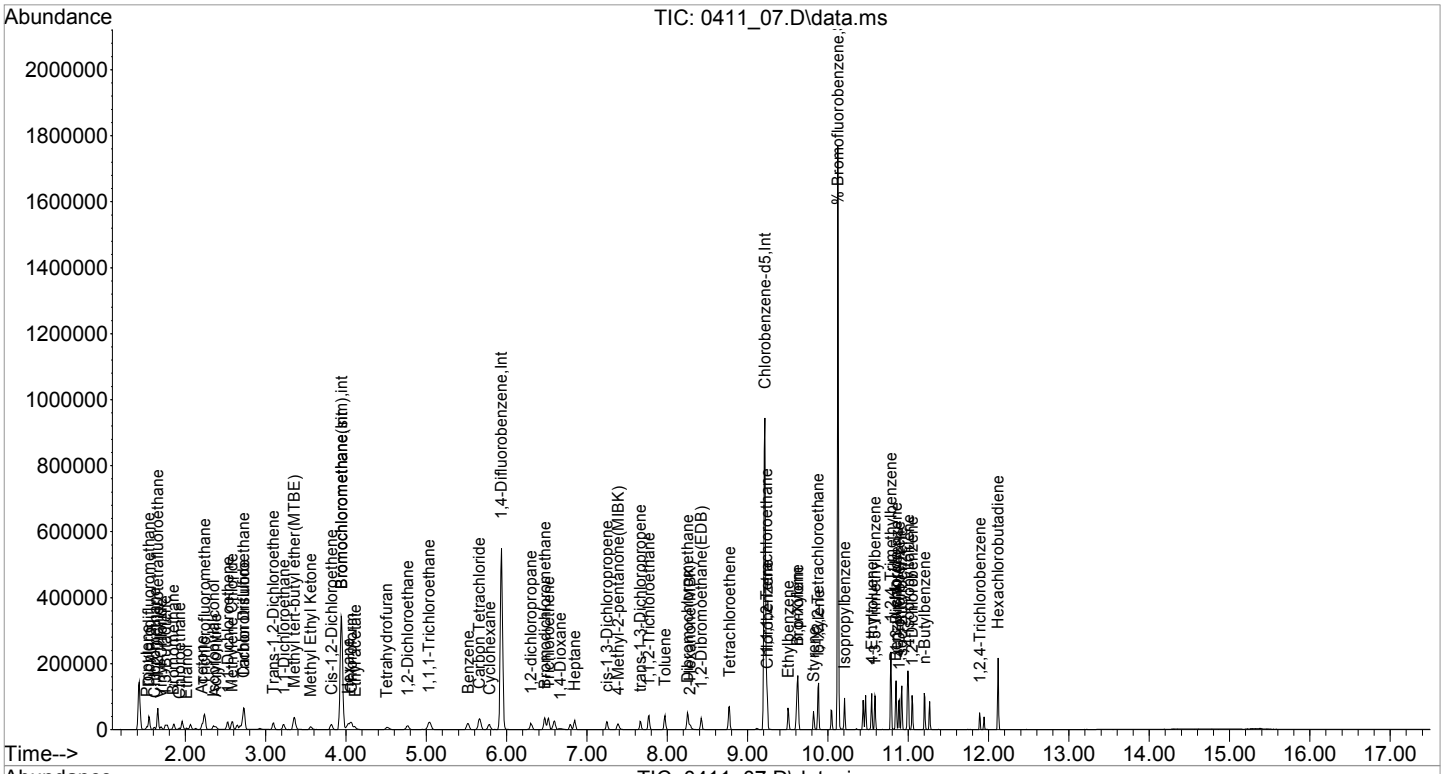
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	34713	0.589	ppbv	91
117] 1,2,4-Trichlorobenzene...	11.892	180	9588	0.483	ppbv	96
119] Hexachlorobutadiene(sim)	12.121	225	23768	0.553	ppbv	98

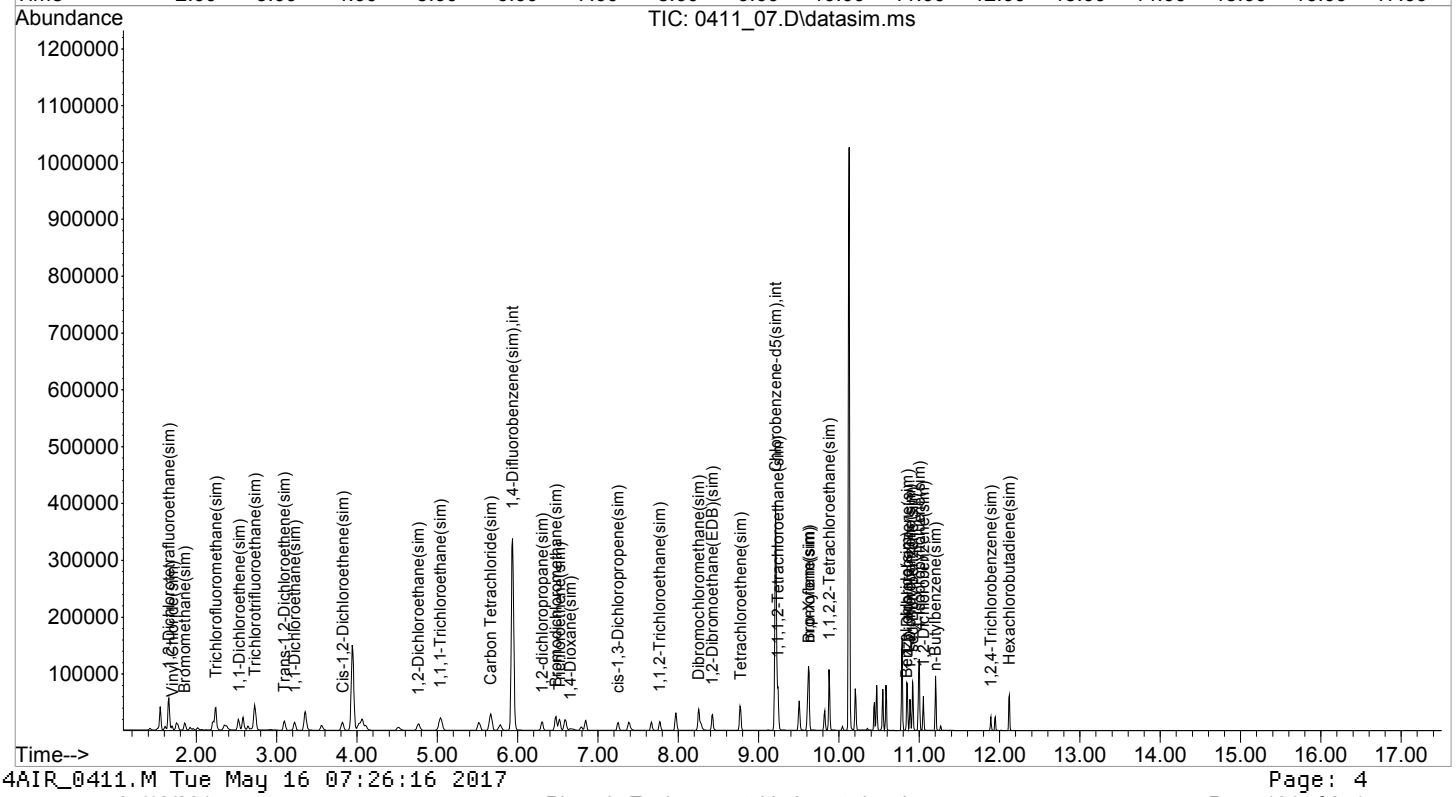
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_07.D
Acq On : 11 Apr 2017 9:51 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5ppb
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:55:03 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:35 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_08.D
Acq On : 11 Apr 2017 10:23 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1 ppb
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 08:52:11 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	138131	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	461008	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	247752	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	138131	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	505840	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	263421	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.124	95	337176	10.409	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.10%				
Target Compounds							Qvalue
2) Propylene	1.520	41	6223	0.801	ppbv		92
3) Dichlorodifluoromethane	1.554	85	48226	0.881	ppbv		99
4) Chloromethane	1.613	52	2935	0.807	ppbv	#	85
5) 1,2-Dichlorotetrafluor...	1.655	85	39425	0.885	ppbv		91
6) Vinyl Chloride	1.698	62	11693	0.860	ppbv		98
7) 1,3-Butadiene	1.749	54	7433	0.890	ppbv	#	89
8) Bromomethane	1.859	94	15693	0.911	ppbv	#	96
9) Chloroethane	1.927	64	5862	0.984	ppbv		97
10) Ethanol	2.020	45	5334	0.868	ppbv		96
12) Acetone	2.206	43	22216	0.801	ppbv		97
13) Trichlorofluoromethane	2.240	101	54896	0.923	ppbv		97
14) Isopropylalcohol	2.350	45	17608	0.816	ppbv	#	84
15) Acrylonitrile	2.376	53	6561	0.864	ppbv		96
16) 1,1-Dichloroethene	2.528	61	25232	0.965	ppbv		90
17) Methylene Chloride	2.579	49	19621	0.987	ppbv		88
20) Carbon Disulfide	2.723	76	35902	0.931	ppbv		99
21) Trichlorotrifluoroethane	2.731	101	35381	0.943	ppbv	#	85
22) Trans-1,2-Dichloroethene	3.098	61	20254	0.951	ppbv		89
23) 1,1-Dichloroethane	3.224	63	25665	0.951	ppbv		97
24) Methyl tert-butyl ethe...	3.344	73	29502	0.762	ppbv		97
25) Methyl Ethyl Ketone	3.558	43	18759	0.821	ppbv		97
26) Cis-1,2-Dichloroethene	3.818	61	18852	0.894	ppbv		88
27) Hexane	4.025	57	14835	0.938	ppbv		96
28) Chloroform	4.065	83	38162	0.953	ppbv		97
29) Ethyl acetate	4.105	43	19325	0.734	ppbv		99
30) Tetrahydrofuran	4.511	42	7498	0.741	ppbv		93
31) 1,2-Dichloroethane	4.768	62	29108	0.965	ppbv	#	92
32) 1,1,1-Trichloroethane	5.042	97	41802	0.925	ppbv		99
33) Benzene	5.519	78	38210	0.924	ppbv		98
34) Carbon Tetrachloride	5.667	117	47408	0.929	ppbv		98
35) Cyclohexane	5.779	56	13626	0.840	ppbv		93
37) 1,2-dichloropropane	6.299	63	9325	0.867	ppbv	#	84
38) Bromodichloromethane	6.473	83	39746	0.909	ppbv		94
39) Trichloroethene	6.520	130	19012	0.885	ppbv	#	88
41) 1,4-Dioxane	6.640	88	7476	0.787	ppbv	#	34
43) Heptane	6.847	71	9996	0.878	ppbv	#	96
44) cis-1,3-Dichloropropene	7.247	75	21932	0.814	ppbv		93
45) 4-Methyl-2-pentanone(M...	7.380	43	21206	0.753	ppbv	#	97
46) trans-1,3-Dichloropropene	7.668	75	23530	0.820	ppbv		93
47) 1,1,2-Trichloroethane	7.771	97	16237	0.801	ppbv		98
48) Toluene	7.970	91	42896	0.846	ppbv		96
49) Dibromochloromethane	8.251	129	38481	0.818	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_08.D
Acq On : 11 Apr 2017 10:23 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1 ppb
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 08:52:11 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:54 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.279	43	22418	0.836	ppbv	92
51) 1,2-Dibromoethane(EDB)	8.423	107	33090	0.893	ppbv	96
52) Tetrachloroethene	8.772	166	25592	0.846	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.237	131	21176	0.833	ppbv	99
55) Chlorobenzene	9.245	112	39573	0.938	ppbv#	82
56) Ethylbenzene	9.503	91	55107	0.837	ppbv	96
57) m,p-Xylene	9.616	91	104920	1.813	ppbv	90
58) Bromoform	9.624	173	38084	0.861	ppbv	100
59) Styrene	9.821	104	31260	0.881	ppbv	94
60) 1,1,2,2-Tetrachloroethane	9.874	83	40850	0.993	ppbv	92
61) o-Xylene	9.882	91	49758	0.928	ppbv	91
64) Isopropylbenzene	10.208	105	64519	0.929	ppbv#	95
66) 4-Ethyltoluene	10.546	105	73005	0.977	ppbv	94
67) 1,3,5-Trimethylbenzene	10.583	105	68057	1.042	ppbv	91
68) 1,2,4-Trimethylbenzene	10.783	105	64495	0.986	ppbv	88
70) Benzyl chloride	10.843	91	46646	0.887	ppbv#	91
71) 1,3-Dichlorobenzene	10.848	146	42400	0.962	ppbv#	95
72) 1,4-Dichlorobenzene	10.881	146	41005	0.978	ppbv#	95
73) sec-Butylbenzene	10.919	105	88954	1.009	ppbv#	92
74) 4-Isopropyltoluene	11.000	119	82235	1.004	ppbv#	89
75) 1,2-Dichlorobenzene	11.048	146	40755	0.962	ppbv#	94
76) n-Butylbenzene	11.200	91	69479	0.975	ppbv#	90
77) 1,2,4-Trichlorobenzene	11.889	180	17229	0.712	ppbv#	97
79) Hexachlorobutadiene	12.118	225	39479	0.992	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.658	85	42428	1.004	ppbv	90
82] Vinyl Chloride(sim)	1.698	62	11693	1.028	ppbv	98
83] Bromomethane(sim)	1.853	94	17298	0.982	ug/l	99
84] Trichlorofluoromethane...	2.240	101	54896	0.904	ppbv	98
85] Trans-1,2-Dichloroethe...	3.094	61	21965	1.035	ppbv	93
86] 1,1-Dichloroethene(sim)	2.528	61	25232	1.054	ppbv	90
87] 1,1-Dichloroethane(sim)	3.221	63	28360	1.094	ppbv	100
88] Cis-1,2-Dichloroethene...	3.818	61	18852	1.070	ppbv	88
89] 1,2-Dichloroethane(sim)	4.763	62	28491	1.008	ppbv	95
90] 1,1,1-Trichloroethane(...	5.042	97	41802	1.066	ppbv#	99
91] Carbon Tetrachloride(sim)	5.663	117	50785	1.063	ppbv	100
92] Trichlorotrifluoroetha...	2.731	101	35381	0.982	ppbv	100
94] 1,2-dichloropropane(sim)	6.299	63	9325	1.002	ppbv#	84
95] Bromodichloromethane(sim)	6.476	83	42183	1.098	ppbv	96
96] Trichloroethene(sim)	6.520	130	19012	1.085	ppbv#	90
97] 1,4-Dioxane(sim)	6.636	88	8436	0.897	ppbv#	75
98] cis-1,3-Dichloropropen...	7.247	75	21932	1.095	ppbv	93
99] 1,1,2-Trichloroethane(...	7.767	97	18434	0.881	ppbv	99
100] Dibromochloromethane(sim)	8.251	129	38481	0.933	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.426	107	36801	1.068	ppbv	96
102] Tetrachloroethene(sim)	8.772	166	25592	1.075	ppbv	89
104] Bromoform(sim)	9.624	173	37932	1.003	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.240	131	23113	0.854	ppbv	99
106] m,p-Xylene(sim)	9.616	91	104920	1.962	ppbv#	90
107] 1,1,2,2-Tetrachloroeth...	9.877	83	44781	0.954	ppbv	96
110] Benzyl chloride(sim)	10.843	91	46646	1.003	ppbv	91
111] 1,3-Dichlorobenzene(sim)	10.851	146	48628	1.016	ppbv#	94
112] 1,4-Dichlorobenzene(sim)	10.881	146	41005	1.035	ppbv	95
113] sec-Butylbenzene(sim)	10.916	105	95876	1.065	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	82235	1.099	ppbv#	89
115] 1,2-Dichlorobenzene(sim)	11.051	146	46175	0.925	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_08.D
Acq On : 11 Apr 2017 10:23 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1 ppb
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 08:52:11 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:54 2017
Response via : Initial Calibration

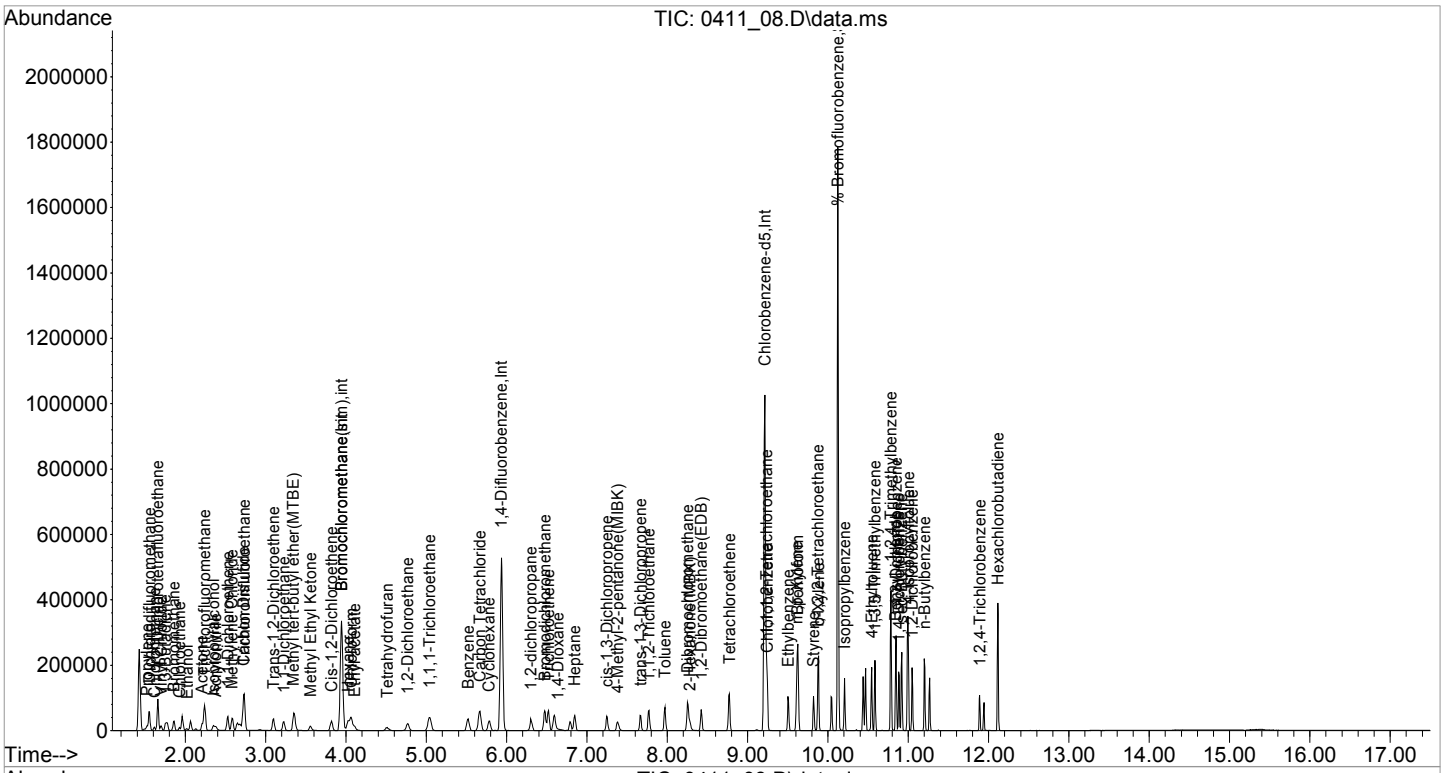
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	69479	1.089	ppbv	90
117] 1,2,4-Trichlorobenzene...	11.887	180	20444	0.986	ppbv	95
119] Hexachlorobutadiene(sim)	12.116	225	44285	0.962	ppbv	98

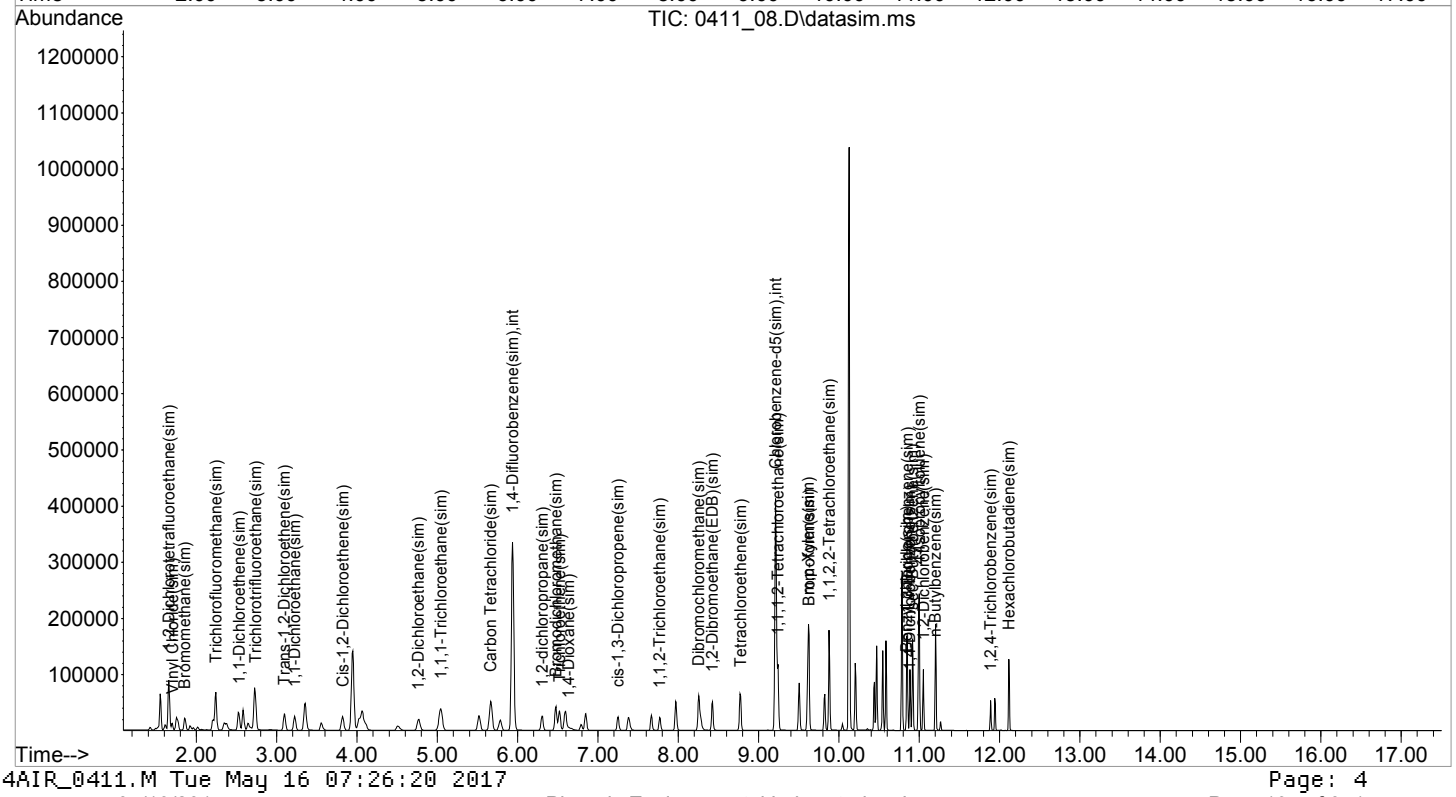
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_08.D
Acq On : 11 Apr 2017 10:23 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1 ppb
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 08:52:11 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:51:54 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_09.D
Acq On : 11 Apr 2017 10:58 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 15:47:23 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	135568	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.941	114	463739	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	248307	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	135568	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	507633	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	261360	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.124	95	325868	9.986	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.90%				
Target Compounds							Qvalue
2) Propylene	1.520	41	19057	2.562	ppbv		93
3) Dichlorodifluoromethane	1.545	85	143722	2.717	ppbv		99
4) Chloromethane	1.613	52	9251	2.657	ppbv	#	81
5) 1,2-Dichlorotetrafluor...	1.656	85	122618	2.845	ppbv		92
6) Vinyl Chloride	1.698	62	35866	2.735	ppbv		100
7) 1,3-Butadiene	1.749	54	22521	2.785	ppbv		94
8) Bromomethane	1.859	94	44829	2.681	ppbv	#	96
9) Chloroethane	1.927	64	15385	2.638	ppbv		98
10) Ethanol	2.011	45	13088	2.599	ppbv	#	95
12) Acetone	2.198	43	61817	2.656	ppbv		97
13) Trichlorofluoromethane	2.240	101	159655	2.761	ppbv		99
14) Isopropylalcohol	2.333	45	56973	2.754	ppbv	#	89
15) Acrylonitrile	2.376	53	19589	2.673	ppbv		94
16) 1,1-Dichloroethene	2.528	61	66810	2.615	ppbv		93
17) Methylene Chloride	2.579	49	45181	2.606	ppbv		87
20) Carbon Disulfide	2.723	76	100604	2.681	ppbv		99
21) Trichlorotrifluoroethane	2.731	101	98979	2.707	ppbv		87
22) Trans-1,2-Dichloroethene	3.098	61	55972	2.695	ppbv		90
23) 1,1-Dichloroethane	3.224	63	69700	2.647	ppbv		99
24) Methyl tert-butyl ethe...	3.324	73	105682	2.867	ppbv		96
25) Methyl Ethyl Ketone	3.538	43	62956	2.871	ppbv		96
26) Cis-1,2-Dichloroethene	3.818	61	54671	2.677	ppbv		89
27) Hexane	4.025	57	38754	2.516	ppbv		93
28) Chloroform	4.065	83	104900	2.686	ppbv		97
29) Ethyl acetate	4.085	43	65314	2.629	ppbv		98
30) Tetrahydrofuran	4.471	42	26784	2.787	ppbv	#	84
31) 1,2-Dichloroethane	4.768	62	78967	2.680	ppbv	#	95
32) 1,1,1-Trichloroethane	5.042	97	116964	2.663	ppbv		99
33) Benzene	5.519	78	103746	2.580	ppbv		98
34) Carbon Tetrachloride	5.667	117	130748	2.634	ppbv		99
35) Cyclohexane	5.779	56	41494	2.658	ppbv		95
37) 1,2-dichloropropane	6.299	63	26546	2.494	ppbv	#	86
38) Bromodichloromethane	6.473	83	112785	2.594	ppbv		97
39) Trichloroethene	6.520	130	52747	2.476	ppbv	#	88
41) 1,4-Dioxane	6.593	88	25449	2.746	ppbv		99
43) Heptane	6.847	71	30025	2.661	ppbv	#	95
44) cis-1,3-Dichloropropene	7.247	75	68408	2.583	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.360	43	76529	2.787	ppbv		98
46) trans-1,3-Dichloropropene	7.668	75	71637	2.538	ppbv		95
47) 1,1,2-Trichloroethane	7.771	97	52715	2.652	ppbv		99
48) Toluene	7.970	91	133487	2.667	ppbv		97
49) Dibromochloromethane	8.251	129	127398	2.755	ppbv		98

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_09.D
Acq On : 11 Apr 2017 10:58 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 15:47:23 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.265	43	75539	2.860	ppbv#	92
51) 1,2-Dibromoethane(EDB)	8.423	107	97975	2.664	ppbv	94
52) Tetrachloroethene	8.773	166	77304	2.590	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.237	131	74254	2.975	ppbv	99
55) Chlorobenzene	9.245	112	118262	2.820	ppbv	90
56) Ethylbenzene	9.503	91	194876	3.014	ppbv	96
57) m,p-Xylene	9.617	91	344506	6.151	ppbv	91
58) Bromoform	9.624	173	123041	2.825	ppbv	100
59) Styrene	9.821	104	99027	2.828	ppbv	94
60) 1,1,2,2-Tetrachloroethane	9.874	83	121156	2.941	ppbv	96
61) o-Xylene	9.882	91	164973	3.097	ppbv	92
64) Isopropylbenzene	10.208	105	202267	2.931	ppbv#	96
66) 4-Ethyltoluene	10.546	105	215409	2.884	ppbv	94
67) 1,3,5-Trimethylbenzene	10.583	105	186231	2.829	ppbv	92
68) 1,2,4-Trimethylbenzene	10.784	105	190188	2.906	ppbv#	89
70) Benzyl chloride	10.843	91	148128	2.852	ppbv#	91
71) 1,3-Dichlorobenzene	10.848	146	118752	2.701	ppbv#	94
72) 1,4-Dichlorobenzene	10.886	146	118428	2.827	ppbv#	95
73) sec-Butylbenzene	10.919	105	249962	2.826	ppbv	93
74) 4-Isopropyltoluene	11.000	119	236286	2.876	ppbv#	90
75) 1,2-Dichlorobenzene	11.049	146	113404	2.682	ppbv#	95
76) n-Butylbenzene	11.200	91	209078	2.937	ppbv#	92
77) 1,2,4-Trichlorobenzene	11.889	180	58187	2.502	ppbv#	96
79) Hexachlorobutadiene	12.118	225	106010	2.659	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.658	85	132486	3.192	ppbv	90
82] Vinyl Chloride(sim)	1.698	62	35866	3.201	ppbv	100
83] Bromomethane(sim)	1.853	94	48398	2.805	ug/l	99
84] Trichlorofluoromethane...	2.240	101	159552	2.709	ppbv	99
85] Trans-1,2-Dichloroethe...	3.094	61	60622	2.896	ppbv	93
86] 1,1-Dichloroethene(sim)	2.528	61	66810	2.826	ppbv	93
87] 1,1-Dichloroethane(sim)	3.221	63	75639	2.939	ppbv	100
88] Cis-1,2-Dichloroethene...	3.818	61	54671	3.134	ppbv	89
89] 1,2-Dichloroethane(sim)	4.771	62	78020	2.809	ppbv#	95
90] 1,1,1-Trichloroethane(...	5.042	97	116964	3.015	ppbv#	99
91] Carbon Tetrachloride(sim)	5.670	117	139448	2.951	ppbv	100
92] Trichlorotrifluoroetha...	2.731	101	98979	2.805	ppbv	98
94] 1,2-dichloropropane(sim)	6.299	63	26546	2.842	ppbv#	86
95] Bromodichloromethane(sim)	6.476	83	121744	3.115	ppbv	96
96] Trichloroethene(sim)	6.520	130	52748	2.968	ppbv#	90
97] 1,4-Dioxane(sim)	6.596	88	27568	2.965	ppbv	99
98] cis-1,3-Dichloropropen...	7.247	75	68408	3.068	ppbv	94
99] 1,1,2-Trichloroethane(...	7.767	97	58180	2.837	ppbv	98
100] Dibromochloromethane(sim)	8.251	129	127398	3.112	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.426	107	107164	3.073	ppbv	96
102] Tetrachloroethene(sim)	8.773	166	77304	3.208	ppbv	89
104] Bromoform(sim)	9.624	173	123041	3.278	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.240	131	82084	3.134	ppbv	100
106] m,p-Xylene(sim)	9.617	91	344512	6.512	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.877	83	132240	2.858	ppbv	96
110] Benzyl chloride(sim)	10.843	91	148128	3.208	ppbv	91
111] 1,3-Dichlorobenzene(sim)	10.851	146	136915	2.877	ppbv#	94
112] 1,4-Dichlorobenzene(sim)	10.886	146	118428	2.997	ppbv	95
113] sec-Butylbenzene(sim)	10.916	105	269337	2.992	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	236286	3.144	ppbv#	90
115] 1,2-Dichlorobenzene(sim)	11.051	146	129529	2.640	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_09.D
Acq On : 11 Apr 2017 10:58 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 15:47:23 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

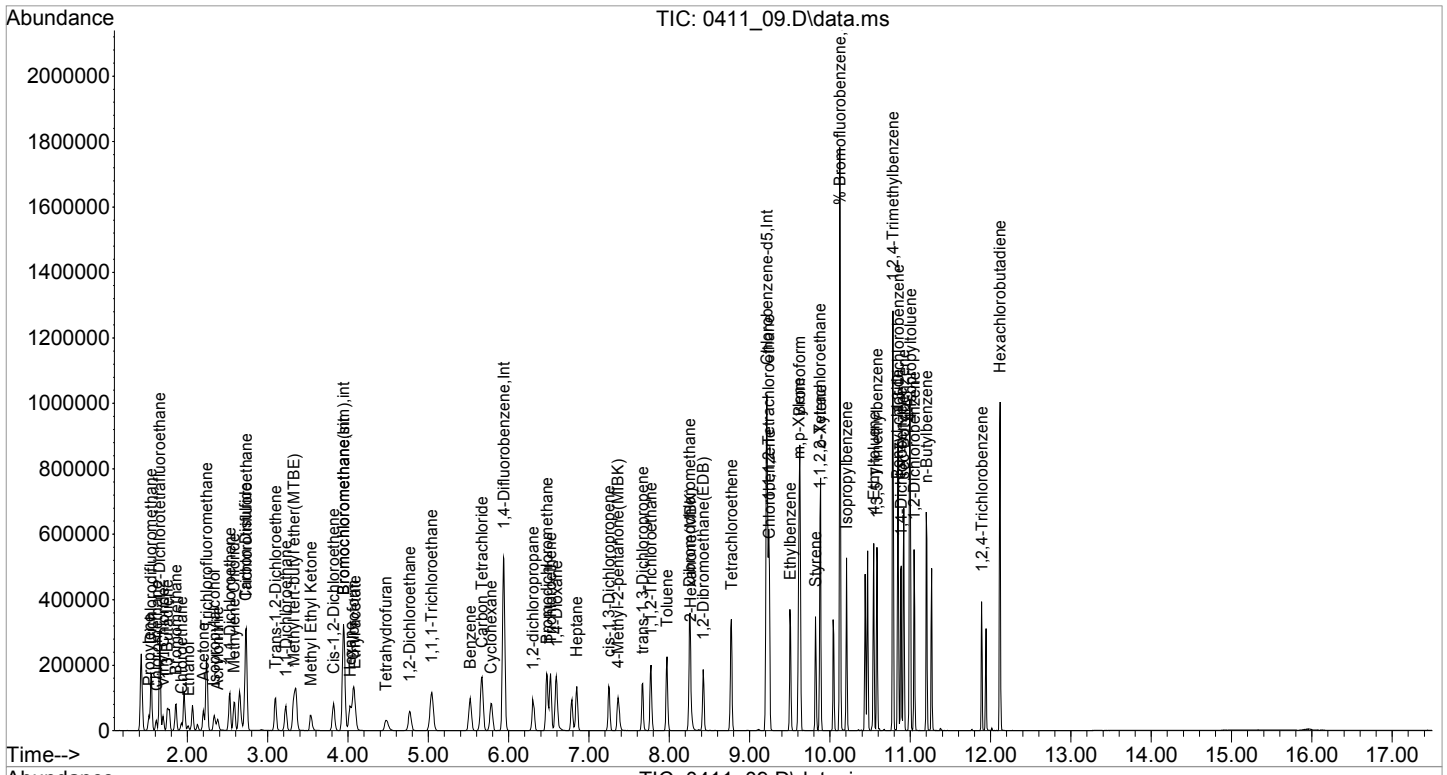
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	209078	3.261	ppbv	92
117] 1,2,4-Trichlorobenzene...	11.887	180	66909	3.260	ppbv	95
119] Hexachlorobutadiene(sim)	12.116	225	116063	2.556	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_09.D
Acq On : 11 Apr 2017 10:58 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5ppb
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 15:47:23 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_10.D
Acq On : 11 Apr 2017 11:28 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5ppb
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 08:46:14 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:03 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.958	130	138356	10.000	ng		0.01
36) 1,4-Difluorobenzene	5.948	114	457295	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	241623	10.000	ng		0.00
80) Bromochloromethane(sim)	3.958	130	138356	10.000	ng		0.01
93) 1,4-Difluorobenzene(sim)	5.944	114	501722	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	255346	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.124	95	339622	10.710	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.10%				
Target Compounds							Qvalue
2) Propylene	1.537	41	31266	4.019	ppbv		93
3) Dichlorodifluoromethane	1.562	85	217785	3.712	ppbv		99
4) Chloromethane	1.630	52	15239	4.035	ppbv#		78
5) 1,2-Dichlorotetrafluor...	1.672	85	176939	3.535	ppbv		93
6) Vinyl Chloride	1.715	62	59584	4.070	ppbv		100
7) 1,3-Butadiene	1.766	54	36964	4.021	ppbv#		95
8) Bromomethane	1.867	94	74354	4.063	ppbv#		97
9) Chloroethane	1.943	64	25148	4.004	ppbv		99
10) Ethanol	2.020	45	18604	3.482	ppbv		96
12) Acetone	2.215	43	82490	3.269	ppbv		97
13) Trichlorofluoromethane	2.257	101	252970	3.881	ppbv		98
14) Isopropylalcohol	2.342	45	87116	3.746	ppbv#		89
15) Acrylonitrile	2.393	53	30810	3.853	ppbv		95
16) 1,1-Dichloroethene	2.537	61	111170	4.076	ppbv		94
17) Methylene Chloride	2.596	49	72014	3.904	ppbv#		79
20) Carbon Disulfide	2.740	76	167779	4.126	ppbv		100
21) Trichlorotrifluoroethane	2.740	101	158729	3.928	ppbv		89
22) Trans-1,2-Dichloroethene	3.111	61	85581	3.745	ppbv		99
23) 1,1-Dichloroethane	3.238	63	107013	3.761	ppbv		98
24) Methyl tert-butyl ethe...	3.344	73	140784	3.263	ppbv		92
25) Methyl Ethyl Ketone	3.551	43	78414	3.051	ppbv#		92
26) Cis-1,2-Dichloroethene	3.838	61	89560	4.013	ppbv		90
27) Hexane	4.038	57	66039	4.174	ppbv		94
28) Chloroform	4.085	83	173570	4.053	ppbv		97
29) Ethyl acetate	4.105	43	92012	3.451	ppbv#		97
30) Tetrahydrofuran	4.491	42	35864	3.280	ppbv#		86
31) 1,2-Dichloroethane	4.789	62	122792	3.809	ppbv#		94
32) 1,1,1-Trichloroethane	5.056	97	194985	4.084	ppbv		99
33) Benzene	5.533	78	175097	4.134	ppbv		99
34) Carbon Tetrachloride	5.674	117	220249	4.126	ppbv		100
35) Cyclohexane	5.793	56	71255	4.207	ppbv		96
37) 1,2-dichloropropane	6.320	63	44286	4.229	ppbv#		88
38) Bromodichloromethane	6.480	83	186843	4.200	ppbv		96
39) Trichloroethene	6.526	130	89736	4.313	ppbv#		87
41) 1,4-Dioxane	6.593	88	41441	4.128	ppbv		100
43) Heptane	6.853	71	47978	4.051	ppbv#		95
44) cis-1,3-Dichloropropene	7.253	75	114398	4.240	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.367	43	133468	4.421	ppbv		98
46) trans-1,3-Dichloropropene	7.668	75	128801	4.558	ppbv		95
47) 1,1,2-Trichloroethane	7.771	97	83631	4.022	ppbv		98
48) Toluene	7.970	91	209171	3.973	ppbv		96
49) Dibromochloromethane	8.258	129	193262	3.846	ppbv		98

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_10.D
Acq On : 11 Apr 2017 11:28 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5ppb
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 08:46:14 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:03 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.258	43	132270	4.439	ppbv#	90
51) 1,2-Dibromoethane(EDB)	8.423	107	159441	4.126	ppbv	96
52) Tetrachloroethene	8.772	166	112620	3.693	ppbv#	90
54) 1,1,1,2-Tetrachloroethane	9.237	131	103233	3.572	ppbv	100
55) Chlorobenzene	9.245	112	178005	3.867	ppbv	90
56) Ethylbenzene	9.503	91	273215	3.602	ppbv	96
57) m,p-Xylene	9.616	91	525339	7.835	ppbv	91
58) Bromoform	9.624	173	196243	4.098	ppbv	100
59) Styrene	9.821	104	171649	4.453	ppbv	93
60) 1,1,2,2-Tetrachloroethane	9.874	83	193630	4.106	ppbv	93
61) o-Xylene	9.882	91	238612	3.716	ppbv	92
64) Isopropylbenzene	10.208	105	296713	3.769	ppbv	96
66) 4-Ethyltoluene	10.546	105	359295	4.285	ppbv	95
67) 1,3,5-Trimethylbenzene	10.583	105	313193	4.321	ppbv	92
68) 1,2,4-Trimethylbenzene	10.783	105	334646	4.521	ppbv	90
70) Benzyl chloride	10.843	91	263102	4.563	ppbv#	92
71) 1,3-Dichlorobenzene	10.848	146	205319	4.442	ppbv#	95
72) 1,4-Dichlorobenzene	10.886	146	190868	4.141	ppbv#	95
73) sec-Butylbenzene	10.919	105	434650	4.467	ppbv	93
74) 4-Isopropyltoluene	11.000	119	399805	4.347	ppbv#	90
75) 1,2-Dichlorobenzene	11.048	146	197065	4.464	ppbv#	95
76) n-Butylbenzene	11.200	91	366139	4.499	ppbv#	92
77) 1,2,4-Trichlorobenzene	11.884	180	104597	4.618	ppbv#	97
79) Hexachlorobutadiene	12.113	225	185162	4.487	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.667	85	191856	3.547	ppbv	91
82] Vinyl Chloride(sim)	1.715	62	59584	4.070	ppbv	100
83] Bromomethane(sim)	1.870	94	80304	4.065	ug/l	99
84] Trichlorofluoromethane...	2.257	101	252970	3.884	ppbv	99
85] Trans-1,2-Dichloroethe...	3.114	61	91232	3.687	ppbv	98
86] 1,1-Dichloroethene(sim)	2.537	61	111170	4.076	ppbv	94
87] 1,1-Dichloroethane(sim)	3.241	63	113408	3.673	ppbv	99
88] Cis-1,2-Dichloroethene...	3.838	61	89560	4.013	ppbv	90
89] 1,2-Dichloroethane(sim)	4.785	62	132334	4.151	ppbv#	95
90] 1,1,1-Trichloroethane(...	5.056	97	194985	4.084	ppbv#	99
91] Carbon Tetrachloride(sim)	5.677	117	234313	4.116	ppbv	100
92] Trichlorotrifluoroetha...	2.740	101	158729	3.928	ppbv	100
94] 1,2-dichloropropane(sim)	6.320	63	44286	4.219	ppbv#	88
95] Bromodichloromethane(sim)	6.483	83	202522	4.207	ppbv	96
96] Trichloroethene(sim)	6.526	130	89815	4.306	ppbv#	90
97] 1,4-Dioxane(sim)	6.596	88	45236	4.150	ppbv	100
98] cis-1,3-Dichloropropen...	7.253	75	114398	4.229	ppbv	94
99] 1,1,2-Trichloroethane(...	7.774	97	91377	3.972	ppbv	98
100] Dibromochloromethane(sim)	8.258	129	193207	3.836	ppbv	98
101] 1,2-Dibromoethane(EDB)...	8.426	107	176506	4.167	ppbv	96
102] Tetrachloroethene(sim)	8.772	166	112620	3.685	ppbv	90
104] Bromoform(sim)	9.624	173	196243	4.081	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.240	131	112780	3.515	ppbv	100
106] m,p-Xylene(sim)	9.616	91	525280	7.802	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.877	83	212466	4.111	ppbv	96
110] Benzyl chloride(sim)	10.843	91	263102	4.544	ppbv	92
111] 1,3-Dichlorobenzene(sim)	10.851	146	234415	4.381	ppbv#	95
112] 1,4-Dichlorobenzene(sim)	10.886	146	190868	4.124	ppbv	95
113] sec-Butylbenzene(sim)	10.916	105	465132	4.423	ppbv	92
114] 4-Isopropyltoluene(sim)	11.000	119	399805	4.329	ppbv#	90
115] 1,2-Dichlorobenzene(sim)	11.051	146	221378	4.373	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_10.D
Acq On : 11 Apr 2017 11:28 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5ppb
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 08:46:14 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:03 2017
Response via : Initial Calibration

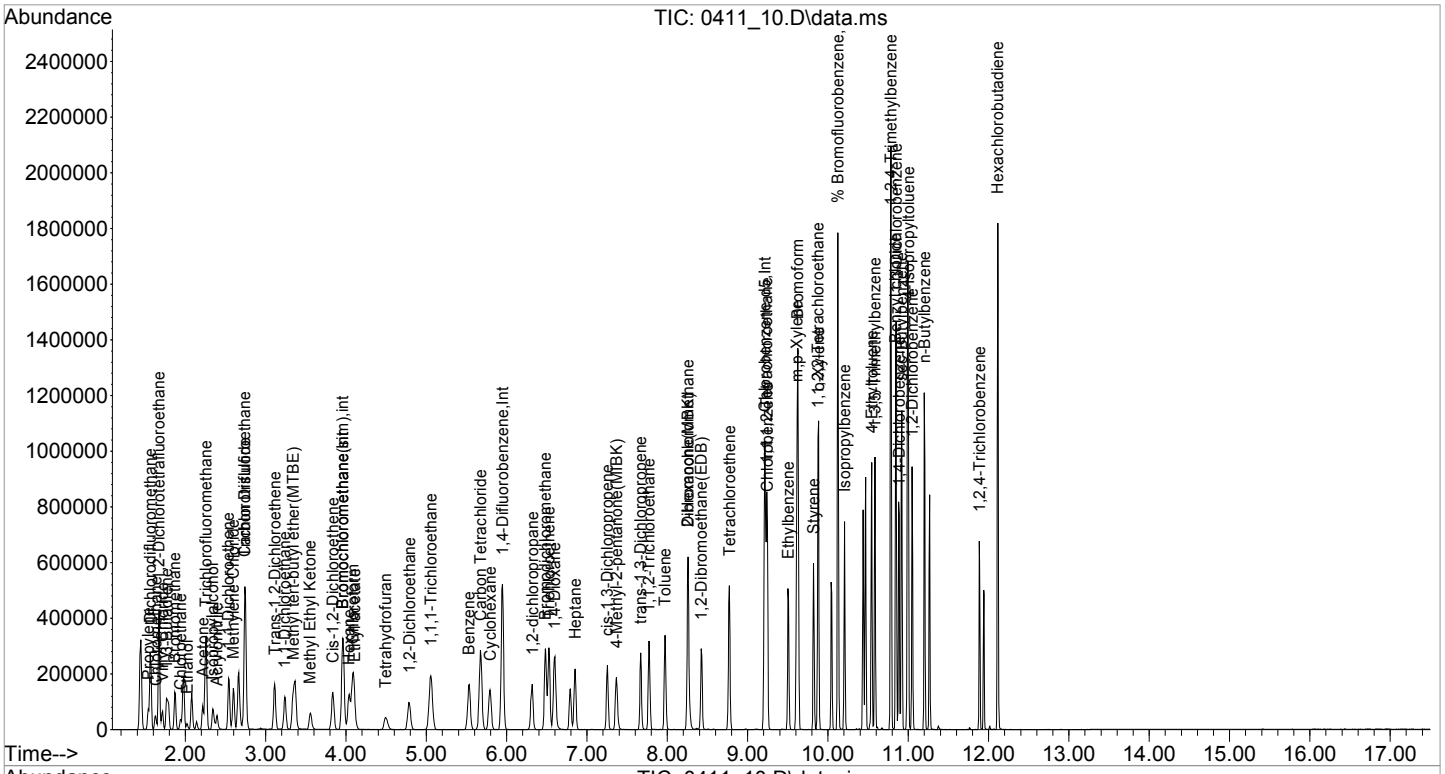
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	366139	4.481	ppbv	92
117] 1,2,4-Trichlorobenzene...	11.887	180	120717	4.616	ppbv	95
119] Hexachlorobutadiene(sim)	12.116	225	202090	4.455	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_10.D
Acq On : 11 Apr 2017 11:28 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5ppb
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 08:46:14 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:03 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_11.D
Acq On : 12 Apr 2017 12:47 am
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 08:46:31 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:22 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.951	130	134790	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.941	114	453905	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	272442	10.000	ng		0.00
80) Bromochloromethane(sim)	3.951	130	134790	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.944	114	497538	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	288112	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	364945	9.857	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.60%				
Target Compounds							Qvalue
2) Propylene	1.520	41	80554	11.785	ppbv		95
3) Dichlorodifluoromethane	1.546	85	549164	11.028	ppbv		99
4) Chloromethane	1.613	52	36839	11.082	ppbv	#	80
5) 1,2-Dichlorotetrafluor...	1.656	85	453366	10.893	ppbv		92
6) Vinyl Chloride	1.698	62	140931	10.894	ppbv		100
7) 1,3-Butadiene	1.749	54	91151	11.282	ppbv		96
8) Bromomethane	1.851	94	178263	11.032	ppbv	#	98
9) Chloroethane	1.927	64	60844	11.044	ppbv		98
10) Ethanol	2.003	45	41582	9.418	ppbv		97
12) Acetone	2.189	43	220272	10.835	ppbv		97
13) Trichlorofluoromethane	2.240	101	564544	10.011	ppbv		99
14) Isopropylalcohol	2.316	45	178206	8.993	ppbv		95
15) Acrylonitrile	2.376	53	79263	11.493	ppbv		94
16) 1,1-Dichloroethene	2.528	61	260626	10.807	ppbv		94
17) Methylene Chloride	2.588	49	154900	9.681	ppbv	#	82
20) Carbon Disulfide	2.723	76	386159	10.681	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	344030	9.789	ppbv		88
22) Trans-1,2-Dichloroethene	3.098	61	218904	11.244	ppbv		91
23) 1,1-Dichloroethane	3.225	63	271206	11.167	ppbv		99
24) Methyl tert-butyl ethe...	3.305	73	396387	11.413	ppbv		95
25) Methyl Ethyl Ketone	3.525	43	227714	11.296	ppbv		94
26) Cis-1,2-Dichloroethene	3.825	61	216565	11.051	ppbv		89
27) Hexane	4.025	57	154237	10.908	ppbv		95
28) Chloroform	4.071	83	387277	10.254	ppbv		97
29) Ethyl acetate	4.071	43	238058	10.845	ppbv		97
30) Tetrahydrofuran	4.445	42	102460	11.617	ppbv	#	85
31) 1,2-Dichloroethane	4.775	62	305876	11.056	ppbv	#	95
32) 1,1,1-Trichloroethane	5.049	97	427289	10.112	ppbv		99
33) Benzene	5.527	78	407077	10.801	ppbv		98
34) Carbon Tetrachloride	5.667	117	492653	10.381	ppbv		100
35) Cyclohexane	5.786	56	165235	10.876	ppbv		95
37) 1,2-dichloropropane	6.299	63	102275	10.662	ppbv	#	88
38) Bromodichloromethane	6.480	83	447102	11.006	ppbv		96
39) Trichloroethene	6.520	130	218730	11.373	ppbv	#	88
41) 1,4-Dioxane	6.567	88	85857	9.440	ppbv		99
43) Heptane	6.847	71	118182	11.107	ppbv	#	95
44) cis-1,3-Dichloropropene	7.254	75	297173	12.009	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.340	43	277992	9.848	ppbv		99
46) trans-1,3-Dichloropropene	7.668	75	341292	12.731	ppbv	#	90
47) 1,1,2-Trichloroethane	7.771	97	209101	11.230	ppbv		98
48) Toluene	7.970	91	535724	11.424	ppbv		97
49) Dibromochloromethane	8.258	129	506570	11.481	ppbv		98

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_11.D
Acq On : 12 Apr 2017 12:47 am
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 08:46:31 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:22 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.245	43	271875	9.739	ppbv#	90
51) 1,2-Dibromoethane(EDB)	8.423	107	385737	11.019	ppbv	95
52) Tetrachloroethene	8.773	166	310826	11.813	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.238	131	284710	10.192	ppbv	100
55) Chlorobenzene	9.245	112	453861	9.862	ppbv	94
56) Ethylbenzene	9.511	91	754645	10.258	ppbv	96
57) m,p-Xylene	9.624	91	1271418	18.859	ppbv	91
58) Bromoform	9.624	173	495706	10.090	ppbv	100
59) Styrene	9.821	104	422235	10.277	ppbv	93
60) 1,1,2,2-Tetrachloroethane	9.882	83	409765	8.463	ppbv	97
61) o-Xylene	9.882	91	562336	8.911	ppbv	93
64) Isopropylbenzene	10.208	105	718040	9.224	ppbv	96
66) 4-Ethyltoluene	10.546	105	828325	9.436	ppbv	95
67) 1,3,5-Trimethylbenzene	10.589	105	711643	9.342	ppbv	93
68) 1,2,4-Trimethylbenzene	10.784	105	723007	9.098	ppbv	91
70) Benzyl chloride	10.849	91	640872	10.308	ppbv#	92
71) 1,3-Dichlorobenzene	10.854	146	488228	9.921	ppbv#	95
72) 1,4-Dichlorobenzene	10.886	146	463106	9.748	ppbv#	96
73) sec-Butylbenzene	10.919	105	944868	9.097	ppbv	94
74) 4-Isopropyltoluene	11.000	119	907039	9.358	ppbv#	90
75) 1,2-Dichlorobenzene	11.054	146	465783	9.888	ppbv#	95
76) n-Butylbenzene	11.205	91	812312	9.319	ppbv#	92
77) 1,2,4-Trichlorobenzene	11.889	180	299281	12.185	ppbv#	96
79) Hexachlorobutadiene	12.118	225	438866	9.942	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.650	85	488167	10.839	ppbv	91
82] Vinyl Chloride(sim)	1.698	62	140931	10.894	ppbv	100
83] Bromomethane(sim)	1.853	94	190307	10.907	ug/l	99
84] Trichlorofluoromethane...	2.240	101	564544	10.015	ppbv	99
85] Trans-1,2-Dichloroethe...	3.101	61	236838	9.823	ppbv	94
86] 1,1-Dichloroethene(sim)	2.528	61	260626	10.807	ppbv	94
87] 1,1-Dichloroethane(sim)	3.228	63	291260	11.164	ppbv	100
88] Cis-1,2-Dichloroethene...	3.825	61	216565	11.051	ppbv	89
89] 1,2-Dichloroethane(sim)	4.778	62	305152	10.737	ppbv#	94
90] 1,1,1-Trichloroethane(...	5.049	97	427289	10.112	ppbv#	99
91] Carbon Tetrachloride(sim)	5.670	117	521261	10.310	ppbv	100
92] Trichlorotrifluoroetha...	2.732	101	344030	9.789	ppbv	99
94] 1,2-dichloropropane(sim)	6.299	63	102275	10.658	ppbv#	88
95] Bromodichloromethane(sim)	6.483	83	479555	10.911	ppbv	96
96] Trichloroethene(sim)	6.520	130	218730	11.364	ppbv#	90
97] 1,4-Dioxane(sim)	6.570	88	91675	9.269	ppbv	97
98] cis-1,3-Dichloropropen...	7.254	75	297173	12.004	ppbv	94
99] 1,1,2-Trichloroethane(...	7.774	97	228334	10.009	ppbv	98
100] Dibromochloromethane(sim)	8.258	129	506570	11.478	ppbv	98
101] 1,2-Dibromoethane(EDB)...	8.426	107	418916	10.879	ppbv	96
102] Tetrachloroethene(sim)	8.773	166	310826	11.808	ppbv	89
104] Bromoform(sim)	9.624	173	495706	9.136	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.241	131	310650	10.078	ppbv	100
106] m,p-Xylene(sim)	9.624	91	1271884	18.810	ppbv#	91
107] 1,1,2,2-Tetrachloroeth...	9.877	83	444362	8.363	ppbv	96
110] Benzyl chloride(sim)	10.849	91	641560	10.290	ppbv	92
111] 1,3-Dichlorobenzene(sim)	10.852	146	540223	9.538	ppbv#	95
112] 1,4-Dichlorobenzene(sim)	10.886	146	463098	9.719	ppbv	96
113] sec-Butylbenzene(sim)	10.922	105	1004226	8.982	ppbv	93
114] 4-Isopropyltoluene(sim)	11.000	119	907039	9.331	ppbv#	90
115] 1,2-Dichlorobenzene(sim)	11.052	146	527207	9.847	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_11.D
Acq On : 12 Apr 2017 12:47 am
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 08:46:31 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:22 2017
Response via : Initial Calibration

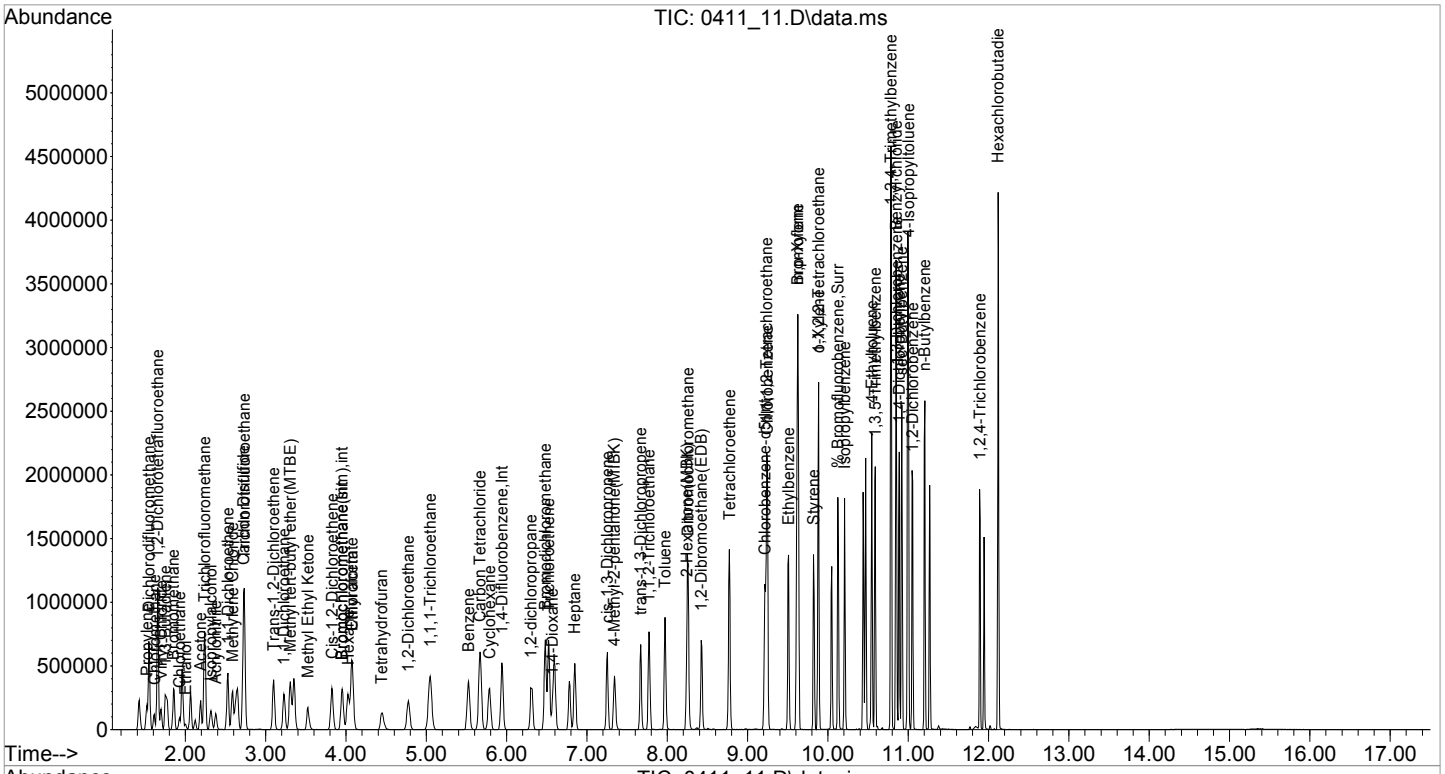
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	812312	9.293	ppbv	92
117] 1,2,4-Trichlorobenzene...	11.892	180	342101	11.594	ppbv	95
119] Hexachlorobutadiene(sim)	12.121	225	478821	9.894	ppbv	98

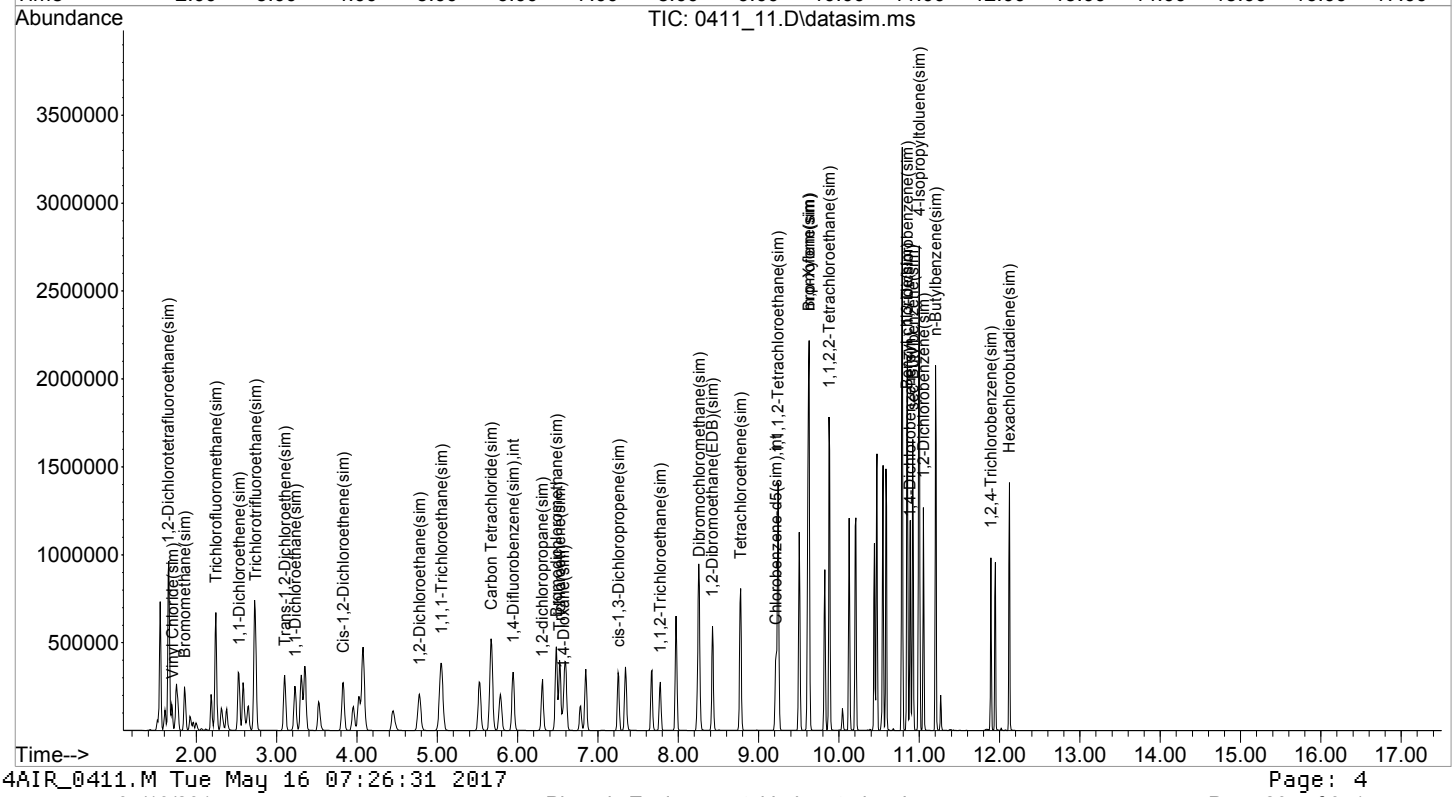
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_11.D
Acq On : 12 Apr 2017 12:47 am
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 08:46:31 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:22 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_12.D
Acq On : 12 Apr 2017 1:22 am
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 08:46:54 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:42 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.958	130	141752	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.948	114	492956	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	329667	10.000	ng		0.00
80) Bromochloromethane(sim)	3.958	130	141752	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.951	114	539838	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	347762	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.132	95	390745	8.764	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.60%				
Target Compounds							Qvalue
2) Propylene	1.520	41	231145	30.349	ppbv		94
3) Dichlorodifluoromethane	1.545	85	1470235	27.144	ppbv		99
4) Chloromethane	1.613	52	98270	27.131	ppbv	#	76
5) 1,2-Dichlorotetrafluor...	1.656	85	1256459	27.876	ppbv		95
6) Vinyl Chloride	1.698	62	377616	26.953	ppbv		99
7) 1,3-Butadiene	1.749	54	224878	25.382	ppbv		97
8) Bromomethane	1.859	94	479150	27.259	ppbv	#	98
9) Chloroethane	1.927	64	163278	27.234	ppbv		95
10) Ethanol	2.003	45	125755	27.620	ppbv		96
12) Acetone	2.189	43	572115	26.036	ppbv		98
13) Trichlorofluoromethane	2.240	101	1570444	26.471	ppbv		99
14) Isopropylalcohol	2.316	45	570151	28.309	ppbv		95
15) Acrylonitrile	2.384	53	220966	29.021	ppbv		94
16) 1,1-Dichloroethene	2.528	61	705073	27.073	ppbv		94
17) Methylene Chloride	2.588	49	414628	24.906	ppbv	#	82
20) Carbon Disulfide	2.732	76	1036165	26.647	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	998981	27.220	ppbv		89
22) Trans-1,2-Dichloroethene	3.104	61	598130	28.052	ppbv		92
23) 1,1-Dichloroethane	3.231	63	722112	27.215	ppbv		99
24) Methyl tert-butyl ethe...	3.298	73	1152862	30.144	ppbv	#	92
25) Methyl Ethyl Ketone	3.525	43	652047	29.484	ppbv		93
26) Cis-1,2-Dichloroethene	3.831	61	585156	27.432	ppbv		91
27) Hexane	4.031	57	434272	28.346	ppbv		96
28) Chloroform	4.085	83	1084244	27.068	ppbv		97
29) Ethyl acetate	4.071	43	740122	31.182	ppbv		98
30) Tetrahydrofuran	4.438	42	313031	32.022	ppbv	#	83
31) 1,2-Dichloroethane	4.782	62	859939	28.552	ppbv	#	94
32) 1,1,1-Trichloroethane	5.056	97	1270450	28.483	ppbv		100
33) Benzene	5.533	78	1194034	29.342	ppbv		98
34) Carbon Tetrachloride	5.674	117	1432023	28.333	ppbv		100
35) Cyclohexane	5.786	56	482629	29.350	ppbv		95
37) 1,2-dichloropropane	6.320	63	309534	29.071	ppbv	#	89
38) Bromodichloromethane	6.487	83	1289130	28.271	ppbv		96
39) Trichloroethene	6.527	130	642815	29.429	ppbv	#	88
41) 1,4-Dioxane	6.560	88	289933	29.911	ppbv		97
43) Heptane	6.853	71	354061	29.550	ppbv		94
44) cis-1,3-Dichloropropene	7.253	75	856991	29.886	ppbv		95
45) 4-Methyl-2-pentanone(M...	7.333	43	875588	28.706	ppbv		98
46) trans-1,3-Dichloropropene	7.675	75	904694	28.481	ppbv		96
47) 1,1,2-Trichloroethane	7.778	97	607399	28.853	ppbv		99
48) Toluene	7.977	91	1567980	29.393	ppbv		97
49) Dibromochloromethane	8.265	129	1464929	29.133	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_12.D
Acq On : 12 Apr 2017 1:22 am
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 08:46:54 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:42 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	8.244	43	840095	27.953	ppbv#	88
51) 1,2-Dibromoethane(EDB)	8.430	107	1101915	28.032	ppbv	96
52) Tetrachloroethene	8.773	166	954534	31.500	ppbv#	91
54) 1,1,1,2-Tetrachloroethane	9.245	131	883122	25.960	ppbv	100
55) Chlorobenzene	9.245	112	1377872	24.857	ppbv	97
56) Ethylbenzene	9.510	91	2213328	24.651	ppbv	98
57) m,p-Xylene	9.624	91	3722497	46.516	ppbv	95
58) Bromoform	9.632	173	1573788	26.395	ppbv	99
59) Styrene	9.829	104	1276014	25.432	ppbv	93
60) 1,1,2,2-Tetrachloroethane	9.882	83	1237196	22.257	ppbv	96
61) o-Xylene	9.882	91	1772775	24.090	ppbv	95
64) Isopropylbenzene	10.208	105	2313455	25.213	ppbv	97
66) 4-Ethyltoluene	10.546	105	2477343	23.770	ppbv	97
67) 1,3,5-Trimethylbenzene	10.589	105	2116026	23.470	ppbv	94
68) 1,2,4-Trimethylbenzene	10.789	105	2113666	22.662	ppbv	94
70) Benzyl chloride	10.849	91	1931296	25.411	ppbv	94
71) 1,3-Dichlorobenzene	10.854	146	1494141	25.158	ppbv#	96
72) 1,4-Dichlorobenzene	10.886	146	1471526	25.814	ppbv#	96
73) sec-Butylbenzene	10.924	105	2818989	23.126	ppbv	95
74) 4-Isopropyltoluene	11.005	119	2684975	23.393	ppbv	93
75) 1,2-Dichlorobenzene	11.054	146	1403461	24.714	ppbv	96
76) n-Butylbenzene	11.205	91	2389631	23.182	ppbv	95
77) 1,2,4-Trichlorobenzene	11.889	180	944970	29.636	ppbv#	97
79) Hexachlorobutadiene	12.118	225	1329175	24.933	ppbv	100
81] 1,2-Dichlorotetrafluor...	1.659	85	1334182	28.170	ppbv	93
82] Vinyl Chloride(sim)	1.698	62	377616	27.756	ppbv	99
83] Bromomethane(sim)	1.862	94	514391	28.034	ug/l	99
84] Trichlorofluoromethane...	2.240	101	1570444	26.490	ppbv	99
85] Trans-1,2-Dichloroethe...	3.101	61	642373	25.335	ppbv	95
86] 1,1-Dichloroethene(sim)	2.528	61	705073	27.801	ppbv	94
87] 1,1-Dichloroethane(sim)	3.234	63	769245	28.037	ppbv	100
88] Cis-1,2-Dichloroethene...	3.831	61	585156	28.394	ppbv	91
89] 1,2-Dichloroethane(sim)	4.785	62	862755	28.866	ppbv#	94
90] 1,1,1-Trichloroethane(...	5.056	97	1270450	28.590	ppbv#	100
91] Carbon Tetrachloride(sim)	5.677	117	1499054	28.194	ppbv	99
92] Trichlorotrifluoroetha...	2.732	101	998981	27.028	ppbv	99
94] 1,2-dichloropropane(sim)	6.320	63	309534	29.729	ppbv#	89
95] Bromodichloromethane(sim)	6.490	83	1367935	28.686	ppbv	97
96] Trichloroethene(sim)	6.527	130	642866	30.783	ppbv#	91
97] 1,4-Dioxane(sim)	6.563	88	308788	29.493	ppbv	97
98] cis-1,3-Dichloropropen...	7.253	75	856985	31.905	ppbv	95
99] 1,1,2-Trichloroethane(...	7.781	97	665737	26.897	ppbv	99
100] Dibromochloromethane(sim)	8.265	129	1464929	30.591	ppbv	99
101] 1,2-Dibromoethane(EDB)...	8.433	107	1195526	28.614	ppbv	97
102] Tetrachloroethene(sim)	8.773	166	954534	33.421	ppbv	91
104] Bromoform(sim)	9.632	173	1573805	24.029	ppbv	100
105] 1,1,1,2-Tetrachloroeth...	9.240	131	943101	25.348	ppbv	99
106] m,p-Xylene(sim)	9.624	91	3723839	45.626	ppbv	95
107] 1,1,2,2-Tetrachloroeth...	9.885	83	1299465	20.262	ppbv	98
110] Benzyl chloride(sim)	10.849	91	1931296	25.663	ppbv	94
111] 1,3-Dichlorobenzene(sim)	10.857	146	1614753	23.619	ppbv#	95
112] 1,4-Dichlorobenzene(sim)	10.886	146	1471463	25.584	ppbv	96
113] sec-Butylbenzene(sim)	10.922	105	2884839	21.377	ppbv	95
114] 4-Isopropyltoluene(sim)	11.005	119	2684975	22.882	ppbv	93
115] 1,2-Dichlorobenzene(sim)	11.057	146	1515244	23.447	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_12.D
Acq On : 12 Apr 2017 1:22 am
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 08:46:54 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:42 2017
Response via : Initial Calibration

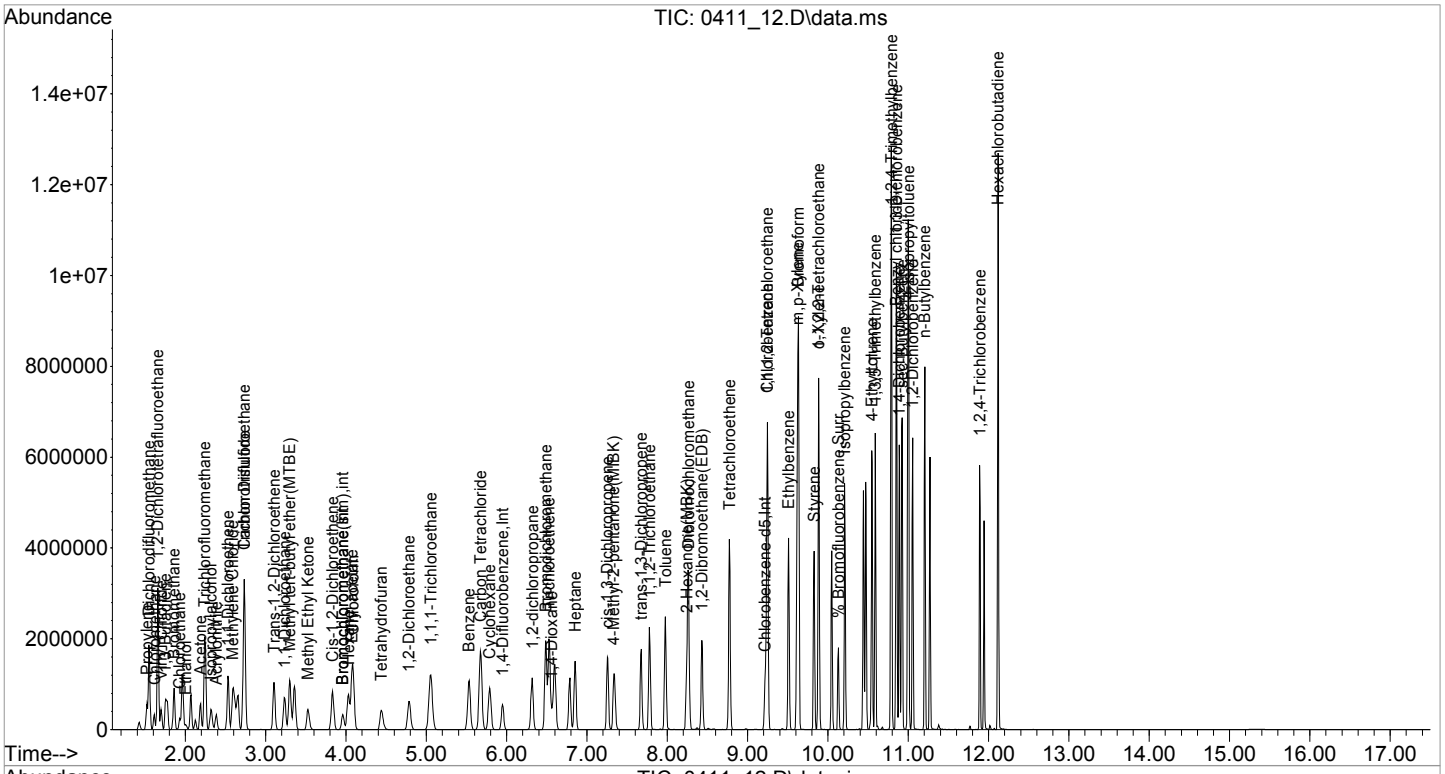
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	2389631	22.648	ppbv	95
117] 1,2,4-Trichlorobenzene...	11.892	180	1052433	29.549	ppbv	96
119] Hexachlorobutadiene(sim)	12.121	225	1356796	23.227	ppbv	98

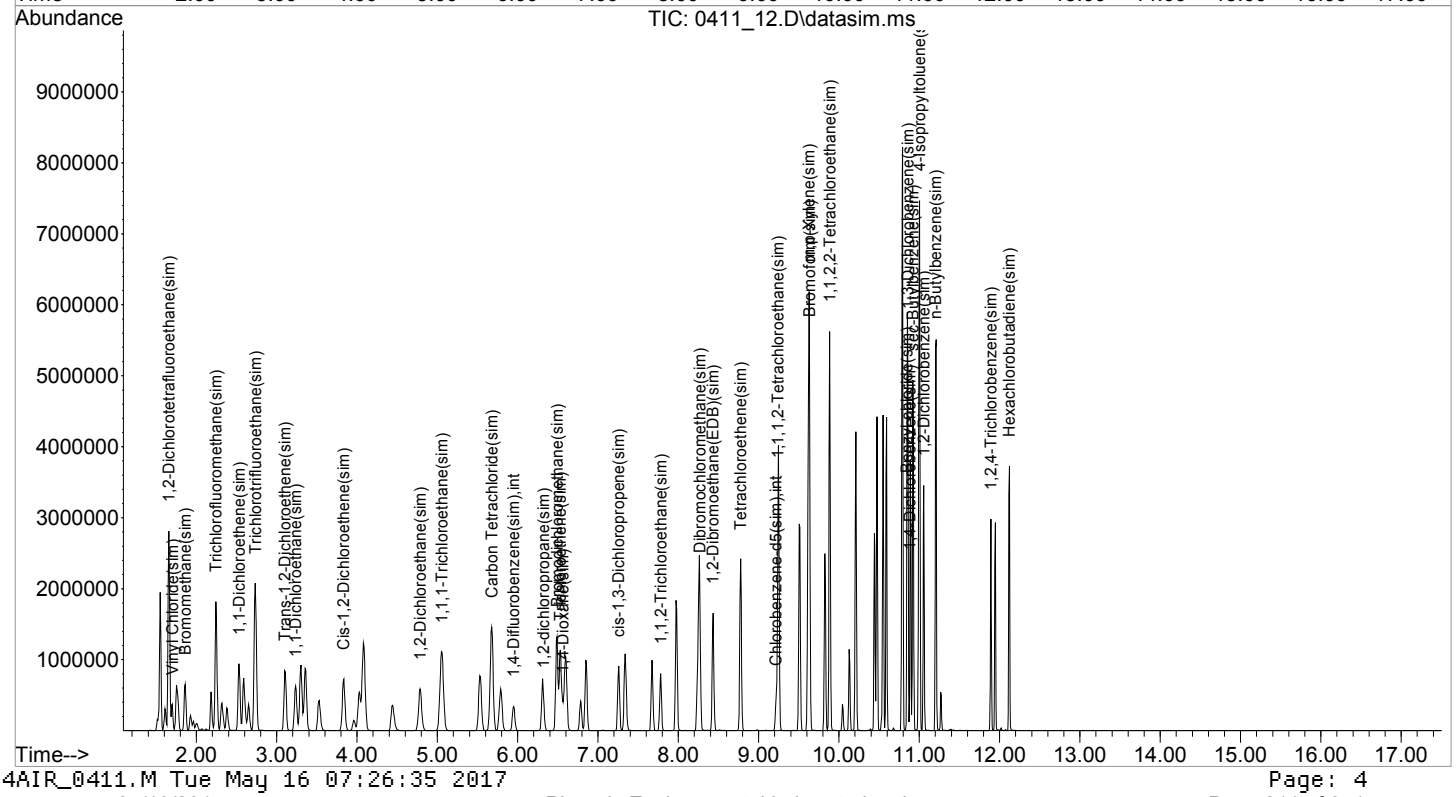
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_12.D
Acq On : 12 Apr 2017 1:22 am
Operator : Keith
Client ID : ICAL 25
Lab ID : 25ppb
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 08:46:54 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:46:42 2017
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_13.D
Acq On : 12 Apr 2017 2:00 am
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 08:47:25 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:02 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.965	130	153721	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.955	114	530695	10.000	ng		0.00
53) Chlorobenzene-d5	9.222	82	379251	10.000	ng		0.00
80) Bromochloromethane(sim)	3.965	130	153721	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.951	114	581146	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	397958	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.132	95	403222	8.112	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.10%				
Target Compounds							Qvalue
2) Propylene	1.520	41	396586	45.579	ppbv		94
3) Dichlorodifluoromethane	1.546	85	2395047	39.920	ppbv		99
4) Chloromethane	1.613	52	160494	40.008	ppbv#		76
5) 1,2-Dichlorotetrafluor...	1.656	85	1983421	39.444	ppbv		96
6) Vinyl Chloride	1.698	62	580896	37.501	ppbv		99
7) 1,3-Butadiene	1.757	54	358249	37.145	ppbv		97
8) Bromomethane	1.859	94	751877	38.573	ppbv#		97
9) Chloroethane	1.927	64	265524	39.947	ppbv		97
10) Ethanol	2.003	45	210119	41.469	ppbv		98
12) Acetone	2.189	43	981441	40.764	ppbv		98
13) Trichlorofluoromethane	2.249	101	2553617	39.116	ppbv		99
14) Isopropylalcohol	2.325	45	962843	42.673	ppbv		96
15) Acrylonitrile	2.384	53	382769	44.566	ppbv		95
16) 1,1-Dichloroethene	2.528	61	1187701	41.199	ppbv		95
17) Methylene Chloride	2.588	49	674510	37.397	ppbv#		80
20) Carbon Disulfide	2.732	76	1767062	41.226	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	1692236	41.596	ppbv		90
22) Trans-1,2-Dichloroethene	3.105	61	1003623	42.119	ppbv		93
23) 1,1-Dichloroethane	3.238	63	1226022	41.685	ppbv		99
24) Methyl tert-butyl ethe...	3.298	73	2001785	45.904	ppbv#		91
25) Methyl Ethyl Ketone	3.531	43	1107664	44.204	ppbv		93
26) Cis-1,2-Dichloroethene	3.838	61	1001574	42.270	ppbv		92
27) Hexane	4.031	57	729661	42.497	ppbv		98
28) Chloroform	4.091	83	1753812	39.557	ppbv		97
29) Ethyl acetate	4.078	43	1518268	55.551	ppbv#		95
30) Tetrahydrofuran	4.438	42	558059	49.189	ppbv#		81
31) 1,2-Dichloroethane	4.796	62	1437134	42.491	ppbv#		91
32) 1,1,1-Trichloroethane	5.056	97	2107165	42.098	ppbv		100
33) Benzene	5.534	78	1955202	42.462	ppbv		98
34) Carbon Tetrachloride	5.674	117	2391178	42.220	ppbv		99
35) Cyclohexane	5.786	56	846060	45.467	ppbv		94
37) 1,2-dichloropropane	6.320	63	579502	48.578	ppbv#		91
38) Bromodichloromethane	6.493	83	2182178	43.045	ppbv		97
39) Trichloroethene	6.533	130	1094107	44.554	ppbv		89
41) 1,4-Dioxane	6.560	88	469646	42.899	ppbv		96
43) Heptane	6.853	71	598936	44.412	ppbv		93
44) cis-1,3-Dichloropropene	7.260	75	1470520	45.416	ppbv		95
45) 4-Methyl-2-pentanone(M...	7.340	43	1400794	41.134	ppbv		97
46) trans-1,3-Dichloropropene	7.675	75	1524464	43.080	ppbv		96
47) 1,1,2-Trichloroethane	7.785	97	1036480	44.038	ppbv		99
48) Toluene	7.977	91	2560680	42.712	ppbv		97
49) Dibromochloromethane	8.265	129	2439412	43.274	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_13.D
Acq On : 12 Apr 2017 2:00 am
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 08:47:25 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:02 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.245	43	1390493	41.743	ppbv#	85
51)	1,2-Dibromoethane(EDB)	8.437	107	1905299	43.698	ppbv	96
52)	Tetrachloroethene	8.780	166	1694645	48.777	ppbv#	91
54)	1,1,1,2-Tetrachloroethane	9.245	131	1502149	38.019	ppbv	100
55)	Chlorobenzene	9.253	112	2361363	37.083	ppbv	98
56)	Ethylbenzene	9.511	91	3650011	35.461	ppbv	99
57)	m,p-Xylene	9.632	91	6137657	67.850	ppbv	97
58)	Bromoform	9.639	173	2588625	37.220	ppbv	99
59)	Styrene	9.829	104	2239990	38.641	ppbv	94
60)	1,1,2,2-Tetrachloroethane	9.890	83	2072817	33.328	ppbv	96
61)	o-Xylene	9.890	91	2925013	34.868	ppbv	97
64)	Isopropylbenzene	10.216	105	3915974	37.019	ppbv	97
66)	4-Ethyltoluene	10.551	105	4031694	34.045	ppbv	98
67)	1,3,5-Trimethylbenzene	10.594	105	3520220	34.467	ppbv	96
68)	1,2,4-Trimethylbenzene	10.794	105	3473793	33.151	ppbv	96
70)	Benzyl chloride	10.854	91	3208439	36.545	ppbv	96
71)	1,3-Dichlorobenzene	10.859	146	2541071	37.134	ppbv	96
72)	1,4-Dichlorobenzene	10.892	146	2444157	36.970	ppbv	95
73)	sec-Butylbenzene	10.924	105	4664308	33.897	ppbv	97
74)	4-Isopropyltoluene	11.005	119	4421972	34.036	ppbv	95
75)	1,2-Dichlorobenzene	11.059	146	2355731	36.163	ppbv	95
76)	n-Butylbenzene	11.205	91	3768465	32.367	ppbv	97
77)	1,2,4-Trichlorobenzene	11.894	180	1690153	44.035	ppbv#	97
79)	Hexachlorobutadiene	12.123	225	2065215	33.698	ppbv	100
81]	1,2-Dichlorotetrafluor...	1.659	85	2062629	40.159	ppbv	96
82]	Vinyl Chloride(sim)	1.698	62	580896	39.373	ppbv	99
83]	Bromomethane(sim)	1.862	94	806636	40.539	ug/l	98
84]	Trichlorofluoromethane...	2.249	101	2553617	39.721	ppbv	99
85]	Trans-1,2-Dichloroethe...	3.107	61	1070225	38.923	ppbv	96
86]	1,1-Dichloroethene(sim)	2.528	61	1187701	43.185	ppbv	95
87]	1,1-Dichloroethane(sim)	3.234	63	1304016	43.827	ppbv	99
88]	Cis-1,2-Dichloroethene...	3.838	61	1001574	44.815	ppbv	92
89]	1,2-Dichloroethane(sim)	4.792	62	1436552	44.321	ppbv#	94
90]	1,1,1-Trichloroethane(...	5.056	97	2107165	43.727	ppbv#	100
91]	Carbon Tetrachloride(sim)	5.677	117	2477084	42.961	ppbv	99
92]	Trichlorotrifluoroetha...	2.732	101	1692236	42.219	ppbv	99
94]	1,2-dichloropropane(sim)	6.320	63	579502	51.702	ppbv#	91
95]	Bromodichloromethane(sim)	6.490	83	2299985	44.802	ppbv	97
96]	Trichloroethene(sim)	6.533	130	1094031	48.662	ppbv#	91
97]	1,4-Dioxane(sim)	6.563	88	497184	44.112	ppbv	98
98]	cis-1,3-Dichloropropen...	7.260	75	1470520	50.856	ppbv	95
99]	1,1,2-Trichloroethane(...	7.781	97	1127553	42.317	ppbv	100
100]	Dibromochloromethane(sim)	8.265	129	2439138	47.314	ppbv	99
101]	1,2-Dibromoethane(EDB)...	8.440	107	2016807	44.840	ppbv	97
102]	Tetrachloroethene(sim)	8.780	166	1694645	55.117	ppbv	91
104]	Bromoform(sim)	9.639	173	2588431	34.536	ppbv	99
105]	1,1,1,2-Tetrachloroeth...	9.248	131	1565700	36.773	ppbv	99
106]	m,p-Xylene(sim)	9.632	91	6139599	65.737	ppbv	97
107]	1,1,2,2-Tetrachloroeth...	9.885	83	2066007	28.151	ppbv	98
110]	Benzyl chloride(sim)	10.854	91	3208439	37.256	ppbv	96
111]	1,3-Dichlorobenzene(sim)	10.857	146	2689750	34.381	ppbv	95
112]	1,4-Dichlorobenzene(sim)	10.892	146	2444157	37.136	ppbv	95
113]	sec-Butylbenzene(sim)	10.927	105	4681136	30.312	ppbv	97
114]	4-Isopropyltoluene(sim)	11.005	119	4421972	32.932	ppbv	95
115]	1,2-Dichlorobenzene(sim)	11.057	146	2524936	34.143	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_13.D
Acq On : 12 Apr 2017 2:00 am
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 08:47:25 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:02 2017
Response via : Initial Calibration

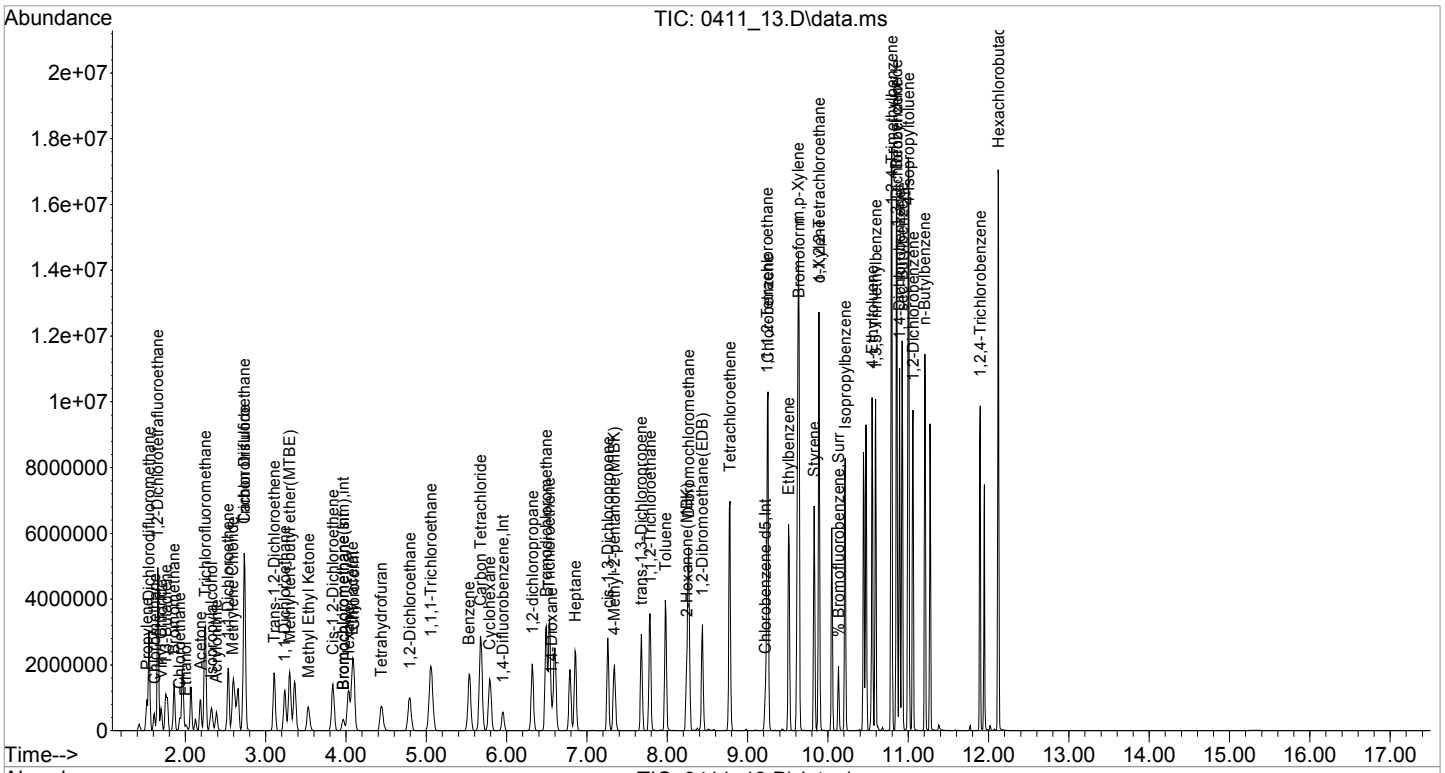
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	3768465	31.211	ppbv	97
117] 1,2,4-Trichlorobenzene...	11.892	180	1826092	44.805	ppbv	97
119] Hexachlorobutadiene(sim)	12.121	225	2072028	30.997	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\11A\
Data File : 0411_13.D
Acq On : 12 Apr 2017 2:00 am
Operator : Keith
Client ID : ICAL 40
Lab ID : 40ppb
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 08:47:25 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:47:02 2017
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/13/17 Time: 13:04

Lab File Id: 0412_33.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane(sim)	4.486	4.380		2.4	30
1,2-Dichlorotetrafluoroethane(sim)	3.248	2.949		9.2	30
Vinyl Chloride(sim)	1.261	0.975		22.7	30
Bromomethane(sim)	1.179	0.851		27.8	30
Trichlorofluoromethane(sim)	5.546	5.951		-7.3	30
1,2-Dichloroethane(sim)	1.807	1.669		7.6	30
1,1,1-Trichloroethane(sim)	3.176	3.381		-6.5	30
Carbon Tetrachloride(sim)	3.146	3.487		-10.8	30
1,1-Dichloroethene(sim)	2.614	2.461		5.9	30
Carbon Disulfide(sim)	2.365	1.835		22.4	30
Trichlorotrifluoroethane(sim)	3.071	3.030		1.3	30
Trans-1,2-Dichloroethene(sim)	1.833	1.711		6.7	30
1,1-Dichloroethane(sim)	2.285	1.649		27.8	30
Cis-1,2-Dichloroethene(sim)	1.139	0.970		14.8	30
Chloroform(sim)	2.695	2.550		5.4	30
Benzene(sim)	1.986	1.542		22.4	30
1,2-dichloropropane(sim)	0.199	0.164		17.6	30
Bromodichloromethane(sim)	0.549	0.543		1.1	30
Trichloroethene(sim)	0.364	0.354		2.7	30
1,4-Dioxane(sim)	0.124	0.118		4.8	30
cis-1,3-Dichloropropene(sim)	0.289	0.267		7.6	30
1,1,2-Trichloroethane(sim)	0.343	0.326		5.0	30
Dibromochloromethane(sim)	0.839	0.879		-4.8	30
1,2-Dibromoethane(EDB)(sim)	0.615	0.611		0.7	30
Tetrachloroethene(sim)	0.459	0.527		-14.8	30
Bromoform(sim)	2.441	2.837		-16.2	30
Chlorobenzene(sim)	2.108	2.075		1.6	30
Ethylbenzene(sim)	2.054	2.130		-3.7	30
m,p-Xylene(sim)	1.790	1.980		-10.6	30
Styrene(sim)	1.047	1.213		-15.9	30
1,1,2,2-Tetrachloroethane(sim)	1.852	1.801		2.8	30
o-Xylene(sim)	1.602	1.921		-19.9	30
Isopropylbenzene(sim)	2.536	2.787		-9.9	30
4-Ethyltoluene(sim)	2.365	2.806		-18.6	30
1,3,5-Trimethylbenzene(sim)	2.034	2.342		-15.1	30
1,2,4-Trimethylbenzene(sim)	2.006	2.491		-24.2	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/13/17 Time: 13:04

Lab File Id: 0412_33.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Benzyl chloride(sim)	1.703	2.026		-19.0	30
1,3-Dichlorobenzene(sim)	1.774	2.212		-24.7	30
1,4-Dichlorobenzene(sim)	1.971	2.622		-33.0 #	30
sec-Butylbenzene(sim)	1.784	2.156		-20.9	30
4-Isopropyltoluene(sim)	2.423	3.123		-28.9	30
1,2-Dichlorobenzene(sim)	1.745	1.983		-13.6	30
n-Butylbenzene(sim)	1.996	2.368		-18.6	30
1,2,4-Trichlorobenzene(sim)	0.886	1.002		-13.1	30
Hexachlorobutadiene(sim)	1.856	2.225		-19.9	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_33.D
Acq On : 13 Apr 2017 01:04 pm
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0ppb; air04q
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:31:44 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	130807	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	355273	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	144360	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	130807	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	421645	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	150312	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	221523	11.283	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.80%				
Target Compounds							Qvalue
2) Propylene	3.651	41	10489	0.769	ppbv		93
3) Dichlorodifluoromethane	3.724	85	45454	0.966	ppbv#		93
4) Chloromethane	3.886	50	12773	0.784	ppbv#		1
5) 1,2-Dichlorotetrafluor...	3.983	85	38572	0.955	ppbv		98
6) Vinyl Chloride	4.089	62	11172	0.850	ppbv		93
7) 1,3-Butadiene	4.210	54	8474	0.752	ppbv#		20
8) Bromomethane	4.454	94	11127	0.860	ppbv#		79
9) Chloroethane	4.600	64	4969	0.824	ppbv#		64
11) Ethanol	4.738	45	7219	0.817	ppbv#		71
12) Acetone	5.103	43	40114	0.990	ppbv#		72
13) Trichlorofluoromethane	5.208	101	62848	1.130	ppbv		96
14) Isopropylalcohol	5.297	45	36755	0.921	ppbv#		74
15) Acrylonitrile	5.441	53	11064	0.877	ppbv#		93
16) 1,1-Dichloroethene	5.673	61	27211	0.959	ppbv#		86
17) Methylene Chloride	5.756	49	25313	0.877	ppbv#		72
20) Carbon Disulfide	5.965	76	24000	0.815	ppbv		97
21) Trichlorotrifluoroethane	5.923	101	30042	0.973	ppbv#		84
22) Trans-1,2-Dichloroethene	6.334	61	22376	1.013	ppbv		89
23) 1,1-Dichloroethane	6.449	63	17809	0.756	ppbv		94
24) Methyl tert-butyl ethe...	6.491	73	22589	0.835	ppbv#		79
25) Methyl Ethyl Ketone	6.668	43	21274	0.754	ppbv#		83
26) Cis-1,2-Dichloroethene	6.894	61	12686	0.821	ppbv		98
27) Hexane	6.987	57	10322	0.906	ppbv#		41
28) Chloroform	7.041	83	26508	0.964	ppbv#		85
29) Ethyl acetate	6.995	61	2219	0.845	ppbv#		1
30) Tetrahydrofuran	7.251	42	8962	0.805	ppbv#		71
31) 1,2-Dichloroethane	7.406	62	21834	0.939	ppbv#		93
32) 1,1,1-Trichloroethane	7.522	97	34637	1.070	ppbv#		89
33) Benzene	7.740	78	20173	0.830	ppbv#		74
34) Carbon Tetrachloride	7.815	117	45615	1.122	ppbv		95
35) Cyclohexane	7.873	41	8164	0.805	ppbv#		31
37) 1,2-dichloropropane	8.113	63	6904	0.866	ppbv#		7
38) Bromodichloromethane	8.205	83	29300	0.992	ppbv		97
39) Trichloroethene	8.221	130	14903	0.986	ppbv		86
41) 1,4-Dioxane	8.213	88	4496	0.878	ppbv#		72
43) Heptane	8.288	43	444	0.034	ppbv		95
44) cis-1,3-Dichloropropene	8.594	75	11274	0.812	ppbv		88
45) 4-Methyl-2-pentanone(M...	8.603	43	18077	0.856	ppbv#		91
46) trans-1,3-Dichloropropene	8.830	75	12996	0.919	ppbv		92
47) 1,1,2-Trichloroethane	8.922	97	10990	0.989	ppbv		94
48) Toluene	9.055	91	22569	0.909	ppbv		97
49) Dibromochloromethane	9.266	129	37061	1.030	ppbv		97

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_33.D
Acq On : 13 Apr 2017 01:04 pm
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0ppb; air04q
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:31:44 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.154	43	15845	0.804	ppbv#	89
51)	1,2-Dibromoethane(EDB)	9.386	107	20469	0.962	ppbv	99
52)	Tetrachloroethene	9.604	166	22232	1.105	ppbv	98
54)	1,1,1,2-Tetrachloroethane	9.934	131	20336	1.160	ppbv	93
55)	Chlorobenzene	9.949	112	26314	1.132	ppbv	87
56)	Ethylbenzene	10.127	91	32013	1.069	ppbv	94
57)	m,p-Xylene	10.216	91	54161	2.216	ppbv	98
58)	Bromoform	10.275	173	42642	1.286	ppbv	95
59)	Styrene	10.408	104	18230	1.111	ppbv#	92
60)	1,1,2,2-Tetrachloroethane	10.460	83	21607	1.034	ppbv	98
61)	o-Xylene	10.467	91	28879	1.147	ppbv	91
64)	Isopropylbenzene	10.778	105	38985	1.163	ppbv	97
66)	4-Ethyltoluene	11.141	105	41013	1.188	ppbv	99
67)	1,3,5-Trimethylbenzene	11.178	105	35203	1.138	ppbv	96
68)	1,2,4-Trimethylbenzene	11.423	105	32495	1.037	ppbv#	92
70)	Benzyl chloride	11.512	91	27558	1.004	ppbv#	92
71)	1,3-Dichlorobenzene	11.527	146	33255	1.252	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	31998	1.286	ppbv	96
73)	sec-Butylbenzene	11.586	105	47737	1.194	ppbv#	93
74)	4-Isopropyltoluene	11.682	119	44834	1.163	ppbv#	89
75)	1,2-Dichlorobenzene	11.786	146	29806	1.143	ppbv	95
76)	n-Butylbenzene	11.942	91	32587	1.046	ppbv#	93
77)	1,2,4-Trichlorobenzene	12.906	180	15064	0.943	ppbv	97
79)	Hexachlorobutadiene	13.224	225	33441	1.323	ppbv	96
81]	Dichlorodifluoromethan...	3.727	85	57297	0.976	ppbv	95
82]	1,2-Dichlorotetrafluor...	3.983	85	38572	0.908	ppbv	98
83]	Vinyl Chloride(sim)	4.092	62	12760	0.774	ppbv	98
84]	Bromomethane(sim)	4.454	94	11127	0.722	ppbv#	79
85]	Trichlorofluoromethane...	5.211	101	77848	1.073	ppbv	99
86]	1,2-Dichloroethane(sim)	7.406	62	21834	0.924	ppbv#	93
87]	1,1,1-Trichloroethane(...	7.525	97	44225	1.064	ppbv#	95
88]	Carbon Tetrachloride(sim)	7.815	117	45615	1.108	ppbv	95
89]	1,1-Dichloroethene(sim)	5.676	61	32197	0.942	ppbv#	84
90]	Carbon Disulfide(sim)	5.965	76	24000	0.776	ppbv	98
91]	Trichlorotrifluoroetha...	5.926	101	39635	0.987	ppbv	98
92]	Trans-1,2-Dichloroethe...	6.334	61	22376	0.933	ppbv	89
93]	1,1-Dichloroethane(sim)	6.452	63	21567m	0.721	ppbv	
94]	Cis-1,2-Dichloroethene...	6.894	61	12686	0.852	ppbv	98
95]	Chloroform(sim)	7.044	83	33362	0.946	ppbv#	87
96]	Benzene(sim)	7.740	78	20173	0.776	ppbv#	74
98]	1,2-dichloropropane(sim)	8.113	63	6904	0.821	ppbv#	7
99]	Bromodichloromethane(sim)	8.199	85	22881	0.988	ppbv#	41
100]	Trichloroethene(sim)	8.221	130	14909	0.972	ppbv	88
101]	1,4-Dioxane(sim)	8.216	88	4964	0.947	ppbv#	80
102]	cis-1,3-Dichloropropen...	8.594	75	11274	0.925	ppbv#	88
103]	1,1,2-Trichloroethane(...	8.924	97	13750	0.950	ppbv	94
104]	Dibromochloromethane(sim)	9.266	129	37061	1.047	ppbv	96
105]	1,2-Dibromoethane(EDB)...	9.389	107	25755	0.993	ppbv	100
106]	Tetrachloroethene(sim)	9.604	166	22232	1.149	ppbv	98
108]	Bromoform(sim)	10.275	173	42642	1.162	ppbv	95
109]	Chlorobenzene(sim)	9.945	112	31186	0.984	ppbv#	93
110]	Ethylbenzene(sim)	10.127	91	32013	1.037	ppbv#	95
111]	m,p-Xylene(sim)	10.218	91	59509	2.212	ppbv	99
112]	Styrene(sim)	10.408	104	18230	1.159	ppbv#	93
113]	1,1,2,2-Tetrachloroeth...	10.455	83	27068	0.972	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_33.D
Acq On : 13 Apr 2017 01:04 pm
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0ppb; air04q
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:31:44 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

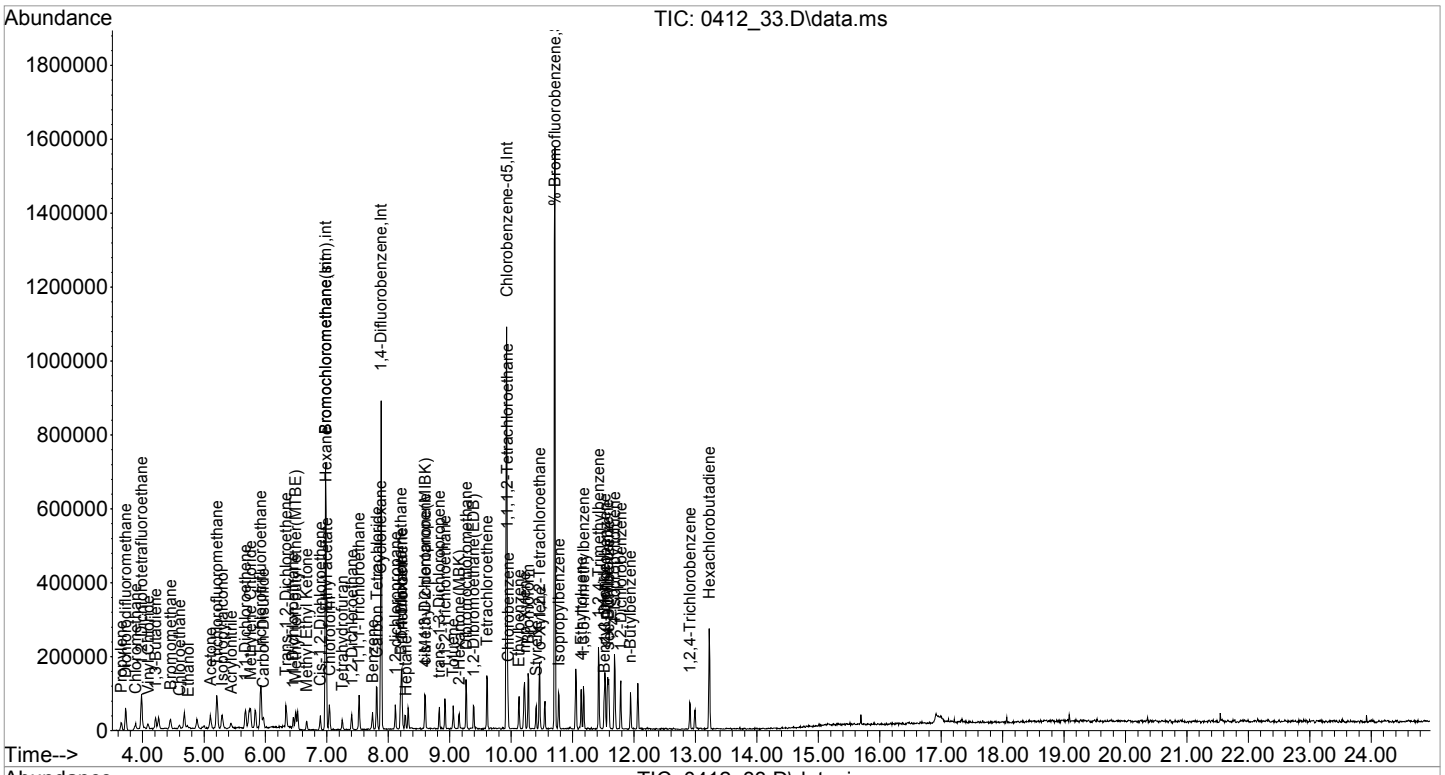
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	28879	1.199	ppbv	93
115] Isopropylbenzene(sim)	10.774	105	41891	1.099	ppbv#	68
117] 4-Ethyltoluene(sim)	11.136	105	42185	1.187	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.178	105	35203	1.151	ppbv	94
119] 1,2,4-Trimethylbenzene...	11.426	105	37447	1.242	ppbv	95
121] Benzyl chloride(sim)	11.515	91	30449	1.189	ppbv	97
122] 1,3-Dichlorobenzene(sim)	11.527	146	33255	1.247	ppbv	98
123] 1,4-Dichlorobenzene(sim)	11.574	146	39415m	1.330	ppbv	
124] sec-Butylbenzene(sim)	11.423	105	32407	1.208	ppbv	78
125] 4-Isopropyltoluene(sim)	11.678	119	46946m	1.289	ppbv	
126] 1,2-Dichlorobenzene(sim)	11.786	146	29806	1.137	ppbv	95
127] n-Butylbenzene(sim)	11.945	91	35588	1.186	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.906	180	15064	1.131	ppbv	98
130] Hexachlorobutadiene(sim)	13.224	225	33441	1.199	ppbv	96

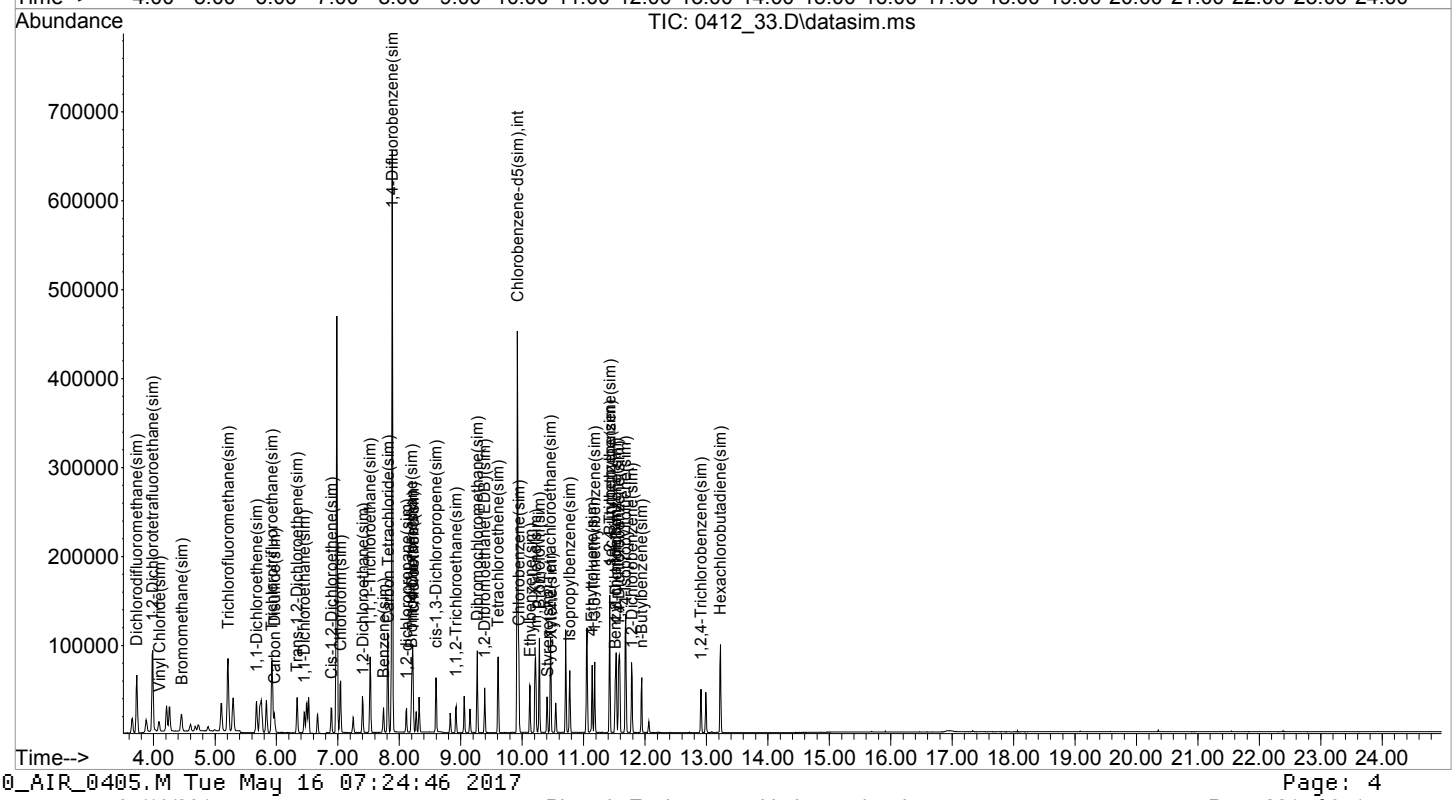
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_33.D
Acq On : 13 Apr 2017 01:04 pm
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0ppb; air04q
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:31:44 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/13/17 Time: 13:40

Lab File Id: 0412_34.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF10	RRF MIN	%D	% D LIMITS
Propylene	1.042	0.872		16.3	30
Dichlorodifluoromethane	3.598	3.748		-4.2	30
Chloromethane	1.246	1.048		15.9	30
1,2-Dichlorotetrafluoroethane	3.088	3.052		1.2	30
Vinyl Chloride	1.004	0.841		16.2	30
1,3-Butadiene	0.861	0.724		15.9	30
Bromomethane	0.989	0.847		14.4	30
Chloroethane	0.461	0.356		22.8	30
Ethanol	0.675	0.490		27.4	30
Acetone	3.099	2.919		5.8	30
Trichlorofluoromethane	4.252	4.713		-10.8	30
Isopropylalcohol	3.052	2.610		14.5	30
Acrylonitrile	0.965	0.810		16.1	30
1,1-Dichloroethene	2.169	2.166		0.1	30
Methylene Chloride	2.208	1.928		12.7	30
Carbon Disulfide	2.252	1.992		11.5	30
Trichlorotrifluoroethane	2.360	2.342		0.8	30
Trans-1,2-Dichloroethene	1.688	1.674		0.8	30
1,1-Dichloroethane	1.801	1.355		24.8	30
Methyl tert-butyl ether(MTBE)	2.069	1.872		9.5	30
Methyl Ethyl Ketone	2.157	1.904		11.7	30
Cis-1,2-Dichloroethene	1.181	1.093		7.5	30
Hexane	0.871	0.791		9.2	30
Chloroform	2.101	2.122		-1.0	30
Ethyl acetate	0.201	0.174		13.4	30
Tetrahydrofuran	0.851	0.773		9.2	30
1,2-Dichloroethane	1.777	1.978		-11.3	30
1,1,1-Trichloroethane	2.474	2.785		-12.6	30
Benzene	1.858	1.774		4.5	30
Carbon Tetrachloride	3.108	3.777		-21.5	30
Cyclohexane	0.776	0.847		-9.1	30
1,2-dichloropropane	0.224	0.203		9.4	30
Bromodichloromethane	0.831	0.861		-3.6	30
Trichloroethene	0.426	0.460		-8.0	30
1,4-Dioxane	0.144	0.151		-4.9	30
Heptane	0.370	0.389		-5.1	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/13/17 Time: 13:40

Lab File Id: 0412_34.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF10	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.391	0.416		-6.4	30
4-Methyl-2-pentanone(MIBK)	0.594	0.718		-20.9	30
trans-1,3-Dichloropropene	0.398	0.453		-13.8	30
1,1,2-Trichloroethane	0.313	0.329		-5.1	30
Toluene	0.699	0.763		-9.2	30
Dibromochloromethane	1.013	1.173		-15.8	30
2-Hexanone(MBK)	0.555	0.691		-24.5	30
1,2-Dibromoethane(EDB)	0.599	0.652		-8.8	30
Tetrachloroethene	0.566	0.667		-17.8	30
1,1,1,2-Tetrachloroethane	1.214	1.285		-5.8	30
Chlorobenzene	1.611	1.615		-0.2	30
Ethylbenzene	2.075	2.269		-9.3	30
m,p-Xylene	1.693	1.918		-13.3	30
Bromoform	2.298	2.533		-10.2	30
Styrene	1.137	1.300		-14.3	30
1,1,2,2-Tetrachloroethane	1.447	1.337		7.6	30
o-Xylene	1.745	1.972		-13.0	30
Isopropylbenzene	2.322	2.529		-8.9	30
4-Ethyltoluene	2.392	2.854		-19.3	30
1,3,5-Trimethylbenzene	2.143	2.400		-12.0	30
1,2,4-Trimethylbenzene	2.170	2.588		-19.3	30
Benzyl chloride	1.901	2.303		-21.1	30
1,3-Dichlorobenzene	1.840	2.168		-17.8	30
1,4-Dichlorobenzene	1.724	2.117		-22.8	30
sec-Butylbenzene	2.769	3.216		-16.1	30
4-Isopropyltoluene	2.671	3.287		-23.1	30
1,2-Dichlorobenzene	1.807	2.011		-11.3	30
n-Butylbenzene	2.158	2.602		-20.6	30
1,2,4-Trichlorobenzene	1.107	1.627		-47.0 #	30
Hexachlorobutadiene	1.751	2.058		-17.5	30
% Bromofluorobenzene	1.360	1.330		2.2	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_34.D
Acq On : 13 Apr 2017 01:40 pm
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10ppb;04v
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 13:33:56 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.987	130	129499	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.889	114	357009	10.000	ng		0.00
53) Chlorobenzene-d5	9.926	82	179723	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.987	130	129499	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	425404	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	194648	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	238988	9.777	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.80%				
Target Compounds							Qvalue
2) Propylene	3.642	41	112883	8.364	ppbv	#	88
3) Dichlorodifluoromethane	3.715	85	485421	10.419	ppbv	#	94
4) Chloromethane	3.878	50	135778	8.418	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	395213	9.884	ppbv		99
6) Vinyl Chloride	4.080	62	108850	8.370	ppbv		99
7) 1,3-Butadiene	4.210	54	93783	8.410	ppbv	#	28
8) Bromomethane	4.445	94	109653	8.562	ppbv	#	83
9) Chloroethane	4.600	64	46138	7.728	ppbv	#	59
11) Ethanol	4.729	45	63441	7.253	ppbv	#	92
12) Acetone	5.094	43	378066	9.421	ppbv	#	68
13) Trichlorofluoromethane	5.208	101	610305	11.082	ppbv		98
14) Isopropylalcohol	5.289	45	337948	8.551	ppbv	#	79
15) Acrylonitrile	5.441	53	104947	8.398	ppbv	#	90
16) 1,1-Dichloroethene	5.679	61	280513	9.987	ppbv	#	82
17) Methylene Chloride	5.756	49	249737	8.736	ppbv	#	68
20) Carbon Disulfide	5.970	76	257955	8.847	ppbv		99
21) Trichlorotrifluoroethane	5.923	101	303349	9.927	ppbv	#	85
22) Trans-1,2-Dichloroethene	6.339	61	216794	9.915	ppbv		88
23) 1,1-Dichloroethane	6.459	63	175527	7.525	ppbv		94
24) Methyl tert-butyl ethe...	6.485	73	242468	9.048	ppbv	#	84
25) Methyl Ethyl Ketone	6.668	43	246614	8.828	ppbv	#	85
26) Cis-1,2-Dichloroethene	6.901	61	141485	9.252	ppbv		94
27) Hexane	6.987	57	102414	9.084	ppbv	#	24
28) Chloroform	7.049	83	274747	10.096	ppbv	#	87
29) Ethyl acetate	6.987	61	22502	8.653	ppbv	#	12
30) Tetrahydrofuran	7.242	42	100125	9.090	ppbv	#	78
31) 1,2-Dichloroethane	7.405	62	256196	11.133	ppbv		99
32) 1,1,1-Trichloroethane	7.529	97	360665	11.256	ppbv	#	93
33) Benzene	7.748	78	229691	9.547	ppbv	#	82
34) Carbon Tetrachloride	7.815	117	489142	12.153	ppbv		98
35) Cyclohexane	7.873	41	109708	10.922	ppbv	#	50
37) 1,2-dichloropropane	8.113	63	72387	9.036	ppbv	#	1
38) Bromodichloromethane	8.204	83	307417	10.356	ppbv		98
39) Trichloroethene	8.221	130	164203	10.806	ppbv		94
41) 1,4-Dioxane	8.213	88	54003	10.495	ppbv	#	90
43) Heptane	8.329	43	139004	10.513	ppbv	#	75
44) cis-1,3-Dichloropropene	8.594	75	148594	10.657	ppbv		95
45) 4-Methyl-2-pentanone(M...	8.594	43	256508	12.088	ppbv	#	84
46) trans-1,3-Dichloropropene	8.830	75	161682	11.378	ppbv		99
47) 1,1,2-Trichloroethane	8.921	97	117301	10.506	ppbv		95
48) Toluene	9.055	91	272408	10.913	ppbv	#	98
49) Dibromochloromethane	9.266	129	418798	11.580	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_34.D
Acq On : 13 Apr 2017 01:40 pm
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10ppb;04v
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 13:33:56 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.146	43	246864m	12.467	ppbv	
51)	1,2-Dibromoethane(EDB)	9.393	107	232715	10.882	ppbv	99
52)	Tetrachloroethene	9.611	166	238122	11.774	ppbv	99
54)	1,1,1,2-Tetrachloroethane	9.934	131	231004	10.587	ppbv	99
55)	Chlorobenzene	9.949	112	290291	10.028	ppbv	94
56)	Ethylbenzene	10.126	91	407863	10.938	ppbv	98
57)	m,p-Xylene	10.215	91	689461	22.656	ppbv	98
58)	Bromoform	10.282	173	455286	11.026	ppbv	100
59)	Styrene	10.408	104	233698	11.441	ppbv#	86
60)	1,1,2,2-Tetrachloroethane	10.459	83	240309	9.239	ppbv#	93
61)	o-Xylene	10.467	91	354411	11.303	ppbv	98
64)	Isopropylbenzene	10.778	105	454568	10.891	ppbv	96
66)	4-Ethyltoluene	11.141	105	512878	11.931	ppbv	96
67)	1,3,5-Trimethylbenzene	11.178	105	431285	11.197	ppbv	98
68)	1,2,4-Trimethylbenzene	11.422	105	465203	11.927	ppbv#	95
70)	Benzyl chloride	11.519	91	413841	12.115	ppbv#	96
71)	1,3-Dichlorobenzene	11.534	146	389572	11.779	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	380563	12.284	ppbv	99
73)	sec-Butylbenzene	11.586	105	578056	11.618	ppbv#	94
74)	4-Isopropyltoluene	11.682	119	590732	12.308	ppbv#	92
75)	1,2-Dichlorobenzene	11.786	146	361392	11.128	ppbv	97
76)	n-Butylbenzene	11.941	91	467683	12.060	ppbv	94
77)	1,2,4-Trichlorobenzene	12.913	180	292422	14.704	ppbv	97
79)	Hexachlorobutadiene	13.224	225	369908	11.753	ppbv	99
81]	Dichlorodifluoromethan...	3.718	85	601350	10.351	ppbv	95
82]	1,2-Dichlorotetrafluor...	3.975	85	395213	9.396	ppbv	100
83]	Vinyl Chloride(sim)	4.083	62	131191	8.036	ppbv	97
84]	Bromomethane(sim)	4.445	94	109653	7.183	ppbv#	83
85]	Trichlorofluoromethane...	5.211	101	776105	10.807	ppbv	100
86]	1,2-Dichloroethane(sim)	7.405	62	256196	10.946	ppbv	99
87]	1,1,1-Trichloroethane(...	7.532	97	457304	11.117	ppbv#	94
88]	Carbon Tetrachloride(sim)	7.815	117	489142	12.006	ppbv	98
89]	1,1-Dichloroethene(sim)	5.676	61	334006	9.867	ppbv#	83
90]	Carbon Disulfide(sim)	5.970	76	258020	8.424	ppbv	99
91]	Trichlorotrifluoroetha...	5.926	101	394080	9.909	ppbv	99
92]	Trans-1,2-Dichloroethe...	6.339	61	216794	9.134	ppbv	88
93]	1,1-Dichloroethane(sim)	6.457	63	208787	7.055	ppbv#	94
94]	Cis-1,2-Dichloroethene...	6.901	61	141485	9.593	ppbv	94
95]	Chloroform(sim)	7.052	83	345539	9.901	ppbv#	87
96]	Benzene(sim)	7.748	78	229691	8.930	ppbv#	82
98]	1,2-dichloropropane(sim)	8.113	63	72387	8.537	ppbv#	1
99]	Bromodichloromethane(sim)	8.207	85	256665	10.987	ppbv#	41
100]	Trichloroethene(sim)	8.221	130	164338	10.615	ppbv	94
101]	1,4-Dioxane(sim)	8.207	88	60353	11.412	ppbv#	86
102]	cis-1,3-Dichloropropen...	8.594	75	148594	12.088	ppbv#	95
103]	1,1,2-Trichloroethane(...	8.924	97	150083	10.276	ppbv	95
104]	Dibromochloromethane(sim)	9.266	129	418798	11.730	ppbv	99
105]	1,2-Dibromoethane(EDB)...	9.389	107	305993	11.695	ppbv	100
106]	Tetrachloroethene(sim)	9.611	166	238098	12.198	ppbv	99
108]	Bromoform(sim)	10.282	173	455286	9.584	ppbv	100
109]	Chlorobenzene(sim)	9.944	112	350697	8.548	ppbv#	91
110]	Ethylbenzene(sim)	10.126	91	407863	10.204	ppbv	97
111]	m,p-Xylene(sim)	10.218	91	767298	22.021	ppbv	97
112]	Styrene(sim)	10.408	104	233698	11.471	ppbv#	86
113]	1,1,2,2-Tetrachloroeth...	10.462	83	301607	8.364	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_34.D
Acq On : 13 Apr 2017 01:40 pm
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10ppb;04v
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 13:33:56 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

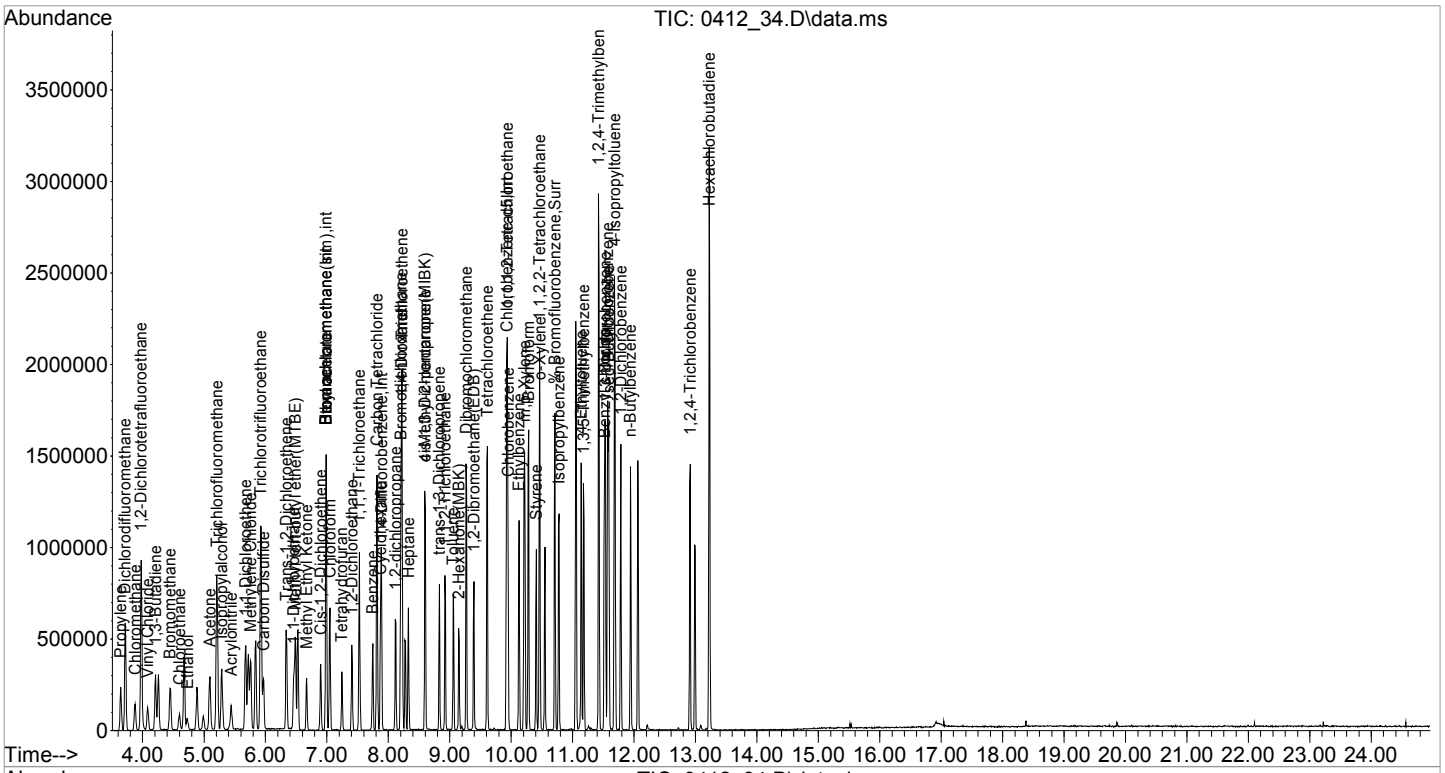
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	354411	11.365	ppbv	100
115] Isopropylbenzene(sim)	10.773	105	495387	10.037	ppbv#	67
117] 4-Ethyltoluene(sim)	11.136	105	552092	11.993	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.178	105	431285	10.894	ppbv	98
119] 1,2,4-Trimethylbenzene...	11.425	105	502586	12.871	ppbv#	93
121] Benzyl chloride(sim)	11.514	91	447526	13.499	ppbv	95
122] 1,3-Dichlorobenzene(sim)	11.534	146	389572	11.283	ppbv	98
123] 1,4-Dichlorobenzene(sim)	11.574	146	495840	12.924	ppbv	97
124] sec-Butylbenzene(sim)	11.422	105	464825	13.383	ppbv	80
125] 4-Isopropyltoluene(sim)	11.677	119	618053	13.104	ppbv#	90
126] 1,2-Dichlorobenzene(sim)	11.786	146	361392	10.641	ppbv	98
127] n-Butylbenzene(sim)	11.944	91	522323	13.445	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	292064	16.936	ppbv	97
130] Hexachlorobutadiene(sim)	13.224	225	369770	10.237	ppbv	100

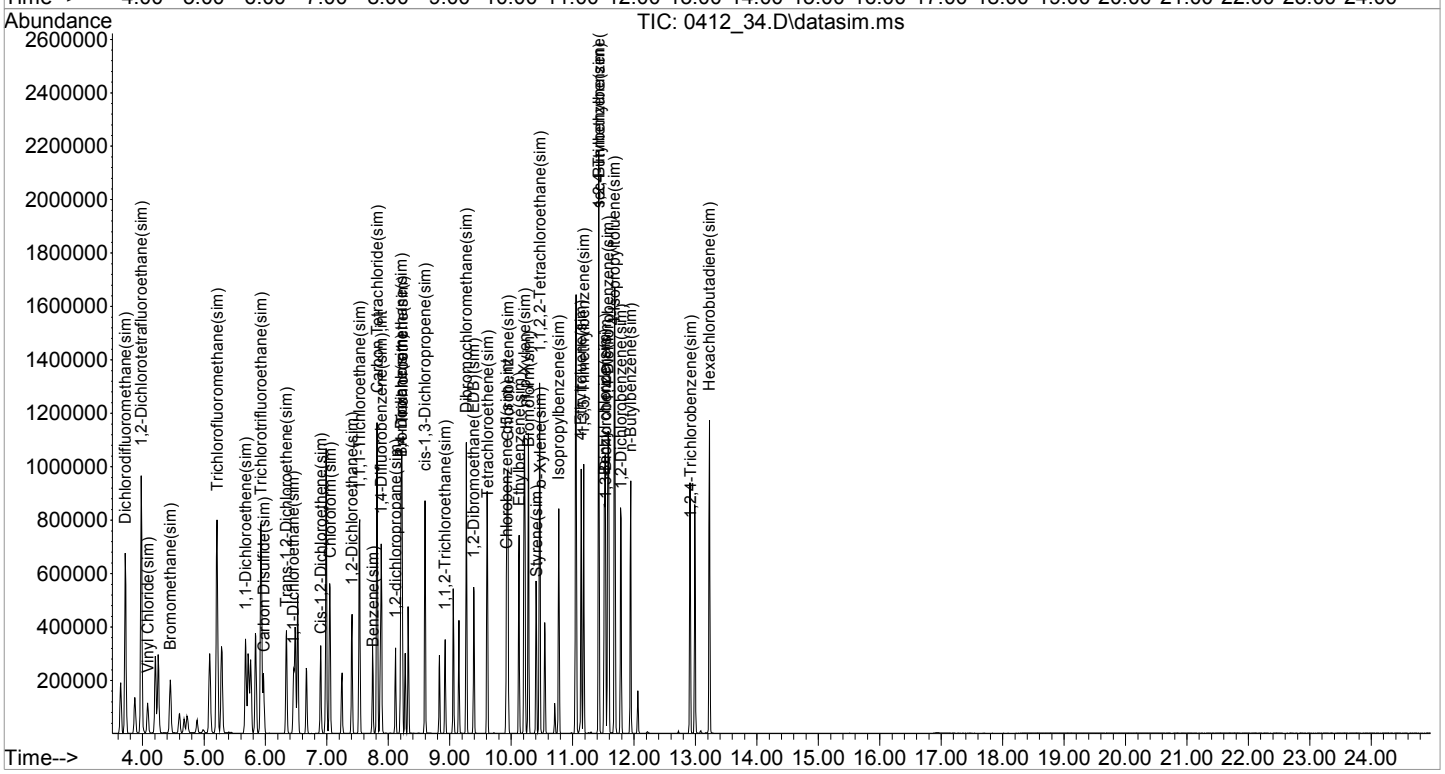
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_34.D
Acq On : 13 Apr 2017 01:40 pm
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10ppb;04v
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 13:33:56 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/14/17 Time: 08:09

Lab File Id: 0412_61.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane(sim)	4.486	4.472		0.3	30
1,2-Dichlorotetrafluoroethane(sim)	3.248	2.974		8.4	30
Vinyl Chloride(sim)	1.261	0.944		25.1	30
Bromomethane(sim)	1.179	0.827		29.9	30
Trichlorofluoromethane(sim)	5.546	6.048		-9.1	30
1,2-Dichloroethane(sim)	1.807	1.713		5.2	30
1,1,1-Trichloroethane(sim)	3.176	3.443		-8.4	30
Carbon Tetrachloride(sim)	3.146	3.549		-12.8	30
1,1-Dichloroethene(sim)	2.614	2.443		6.5	30
Carbon Disulfide(sim)	2.365	1.960		17.1	30
Trichlorotrifluoroethane(sim)	3.071	3.070		0.0	30
Trans-1,2-Dichloroethene(sim)	1.833	1.687		8.0	30
1,1-Dichloroethane(sim)	2.285	2.245		1.8	30
Cis-1,2-Dichloroethene(sim)	1.139	0.918		19.4	30
Chloroform(sim)	2.695	2.542		5.7	30
Benzene(sim)	1.986	1.656		16.6	30
1,2-dichloropropane(sim)	0.199	0.167		16.1	30
Bromodichloromethane(sim)	0.549	0.518		5.6	30
Trichloroethene(sim)	0.364	0.350		3.8	30
1,4-Dioxane(sim)	0.124	0.114		8.1	30
cis-1,3-Dichloropropene(sim)	0.289	0.250		13.5	30
1,1,2-Trichloroethane(sim)	0.343	0.311		9.3	30
Dibromochloromethane(sim)	0.839	0.842		-0.4	30
1,2-Dibromoethane(EDB)(sim)	0.615	0.593		3.6	30
Tetrachloroethene(sim)	0.459	0.481		-4.8	30
Bromoform(sim)	2.441	2.754		-12.8	30
Chlorobenzene(sim)	2.108	2.063		2.1	30
Ethylbenzene(sim)	2.054	2.028		1.3	30
m,p-Xylene(sim)	1.790	1.946		-8.7	30
Styrene(sim)	1.047	1.225		-17.0	30
1,1,2,2-Tetrachloroethane(sim)	1.852	1.759		5.0	30
o-Xylene(sim)	1.602	1.754		-9.5	30
Isopropylbenzene(sim)	2.536	2.670		-5.3	30
4-Ethyltoluene(sim)	2.365	2.742		-15.9	30
1,3,5-Trimethylbenzene(sim)	2.034	2.236		-9.9	30
1,2,4-Trimethylbenzene(sim)	2.006	2.395		-19.4	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/14/17 Time: 08:09

Lab File Id: 0412_61.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Benzyl chloride(sim)	1.703	1.986		-16.6	30
1,3-Dichlorobenzene(sim)	1.774	2.130		-20.1	30
1,4-Dichlorobenzene(sim)	1.971	2.685		-36.2 #	30
sec-Butylbenzene(sim)	1.784	2.211		-23.9	30
4-Isopropyltoluene(sim)	2.423	3.182		-31.3 #	30
1,2-Dichlorobenzene(sim)	1.745	2.230		-27.8	30
n-Butylbenzene(sim)	1.996	2.310		-15.7	30
1,2,4-Trichlorobenzene(sim)	0.886	1.097		-23.8	30
Hexachlorobutadiene(sim)	1.856	2.265		-22.0	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_61.D
Acq On : 14 Apr 2017 08:09 am
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:17:59 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	109178	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	307096	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	125528	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	109178	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	365325	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	128710	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	194282	11.380	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.80%				
Target Compounds							Qvalue
2) Propylene	3.659	41	8076	0.710	ppbv	#	82
3) Dichlorodifluoromethane	3.732	85	40289	1.026	ppbv	#	92
4) Chloromethane	3.886	50	10708	0.787	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.983	85	32470	0.963	ppbv	#	95
6) Vinyl Chloride	4.089	62	8025	0.732	ppbv		94
7) 1,3-Butadiene	4.218	54	7783	0.828	ppbv	#	22
8) Bromomethane	4.454	94	9124	0.845	ppbv	#	71
9) Chloroethane	4.600	64	4138	0.822	ppbv	#	58
11) Ethanol	4.721	45	6515	0.884	ppbv	#	75
12) Acetone	5.103	43	34289	1.013	ppbv	#	69
13) Trichlorofluoromethane	5.216	101	53121	1.144	ppbv	#	98
14) Isopropylalcohol	5.297	45	29208	0.877	ppbv	#	66
15) Acrylonitrile	5.441	53	9245	0.878	ppbv	#	90
16) 1,1-Dichloroethene	5.679	61	22435	0.947	ppbv	#	80
17) Methylene Chloride	5.762	49	23234	0.964	ppbv	#	66
20) Carbon Disulfide	5.971	76	21400	0.871	ppbv		96
21) Trichlorotrifluoroethane	5.923	101	25667	0.996	ppbv	#	81
22) Trans-1,2-Dichloroethene	6.339	61	18306	0.993	ppbv		92
23) 1,1-Dichloroethane	6.449	63	20784	1.057	ppbv		96
24) Methyl tert-butyl ethe...	6.485	73	20993	0.929	ppbv	#	77
25) Methyl Ethyl Ketone	6.668	43	18480	0.785	ppbv	#	88
26) Cis-1,2-Dichloroethene	6.894	61	10022	0.777	ppbv		91
27) Hexane	6.987	57	7068	0.744	ppbv	#	9
28) Chloroform	7.041	83	21437	0.934	ppbv	#	83
29) Ethyl acetate	6.987	61	1921	0.876	ppbv	#	28
30) Tetrahydrofuran	7.250	42	6119	0.659	ppbv	#	87
31) 1,2-Dichloroethane	7.405	62	18707	0.964	ppbv		97
32) 1,1,1-Trichloroethane	7.529	97	29822	1.104	ppbv	#	93
33) Benzene	7.740	78	18082	0.891	ppbv	#	87
34) Carbon Tetrachloride	7.807	117	38748	1.142	ppbv		95
35) Cyclohexane	7.873	41	7502	0.886	ppbv	#	27
37) 1,2-dichloropropane	8.113	63	6083	0.883	ppbv	#	16
38) Bromodichloromethane	8.196	83	24036	0.941	ppbv		93
39) Trichloroethene	8.221	130	12910	0.988	ppbv		94
41) 1,4-Dioxane	8.213	88	3213	0.726	ppbv	#	62
43) Heptane	8.329	43	9481	0.834	ppbv	#	74
44) cis-1,3-Dichloropropene	8.594	75	9275	0.773	ppbv		97
45) 4-Methyl-2-pentanone(M...	8.602	43	14238	0.780	ppbv		95
46) trans-1,3-Dichloropropene	8.830	75	10050	0.822	ppbv		97
47) 1,1,2-Trichloroethane	8.921	97	9483	0.987	ppbv		92
48) Toluene	9.055	91	19744	0.919	ppbv		93
49) Dibromochloromethane	9.266	129	30771	0.989	ppbv		98

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_61.D
Acq On : 14 Apr 2017 08:09 am
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:17:59 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.154	43	14347	0.842	ppbv#	82
51)	1,2-Dibromoethane(EDB)	9.393	107	16548	0.900	ppbv	93
52)	Tetrachloroethene	9.604	166	17560	1.009	ppbv	96
54)	1,1,1,2-Tetrachloroethane	9.934	131	16596	1.089	ppbv	99
55)	Chlorobenzene	9.949	112	23150	1.145	ppbv	88
56)	Ethylbenzene	10.127	91	26102	1.002	ppbv	95
57)	m,p-Xylene	10.215	91	45008	2.118	ppbv	98
58)	Bromoform	10.275	173	35446	1.229	ppbv	99
59)	Styrene	10.408	104	15768	1.105	ppbv#	93
60)	1,1,2,2-Tetrachloroethane	10.460	83	17686	0.974	ppbv	91
61)	o-Xylene	10.467	91	22580	1.031	ppbv	96
64)	Isopropylbenzene	10.771	105	31696	1.087	ppbv#	93
66)	4-Ethyltoluene	11.141	105	33577	1.118	ppbv	94
67)	1,3,5-Trimethylbenzene	11.178	105	28782	1.070	ppbv	92
68)	1,2,4-Trimethylbenzene	11.423	105	28462	1.045	ppbv	91
70)	Benzyl chloride	11.512	91	21532	0.902	ppbv#	89
71)	1,3-Dichlorobenzene	11.526	146	27411	1.187	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	25864	1.195	ppbv	94
73)	sec-Butylbenzene	11.586	105	38634	1.112	ppbv#	90
74)	4-Isopropyltoluene	11.682	119	40591	1.211	ppbv#	91
75)	1,2-Dichlorobenzene	11.786	146	28698	1.265	ppbv#	89
76)	n-Butylbenzene	11.942	91	26569	0.981	ppbv#	93
77)	1,2,4-Trichlorobenzene	12.905	180	14121	1.017	ppbv	97
79)	Hexachlorobutadiene	13.224	225	29306	1.333	ppbv	97
81]	Dichlorodifluoromethan...	3.735	85	48826	0.997	ppbv	95
82]	1,2-Dichlorotetrafluor...	3.983	85	32470	0.916	ppbv#	95
83]	Vinyl Chloride(sim)	4.092	62	10301	0.748	ppbv	98
84]	Bromomethane(sim)	4.454	94	9029	0.702	ppbv#	70
85]	Trichlorofluoromethane...	5.211	101	66034	1.091	ppbv	100
86]	1,2-Dichloroethane(sim)	7.405	62	18707	0.948	ppbv	97
87]	1,1,1-Trichloroethane(...	7.525	97	37588	1.084	ppbv#	95
88]	Carbon Tetrachloride(sim)	7.807	117	38748	1.128	ppbv	95
89]	1,1-Dichloroethene(sim)	5.676	61	26676	0.935	ppbv#	84
90]	Carbon Disulfide(sim)	5.971	76	21400	0.829	ppbv	96
91]	Trichlorotrifluoroetha...	5.926	101	33518	1.000	ppbv	98
92]	Trans-1,2-Dichloroethe...	6.339	61	18423	0.921	ppbv	92
93]	1,1-Dichloroethane(sim)	6.457	63	24513	0.982	ppbv#	95
94]	Cis-1,2-Dichloroethene...	6.894	61	10022	0.806	ppbv	91
95]	Chloroform(sim)	7.044	83	27748	0.943	ppbv#	86
96]	Benzene(sim)	7.740	78	18082	0.834	ppbv#	87
98]	1,2-dichloropropane(sim)	8.113	63	6083	0.835	ppbv#	16
99]	Bromodichloromethane(sim)	8.199	85	18926	0.943	ppbv#	41
100]	Trichloroethene(sim)	8.221	130	12794	0.962	ppbv	95
101]	1,4-Dioxane(sim)	8.216	88	4169	0.918	ppbv#	79
102]	cis-1,3-Dichloropropen...	8.594	75	9144	0.866	ppbv	97
103]	1,1,2-Trichloroethane(...	8.924	97	11371	0.907	ppbv	94
104]	Dibromochloromethane(sim)	9.266	129	30771	1.004	ppbv	100
105]	1,2-Dibromoethane(EDB)...	9.389	107	21676	0.965	ppbv	99
106]	Tetrachloroethene(sim)	9.604	166	17560	1.048	ppbv	96
108]	Bromoform(sim)	10.275	173	35446	1.128	ppbv	99
109]	Chlorobenzene(sim)	9.944	112	26552	0.979	ppbv#	91
110]	Ethylbenzene(sim)	10.127	91	26102	0.988	ppbv#	94
111]	m,p-Xylene(sim)	10.218	91	50094	2.174	ppbv	99
112]	Styrene(sim)	10.408	104	15768	1.170	ppbv#	93
113]	1,1,2,2-Tetrachloroeth...	10.455	83	22644	0.950	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_61.D
Acq On : 14 Apr 2017 08:09 am
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:17:59 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

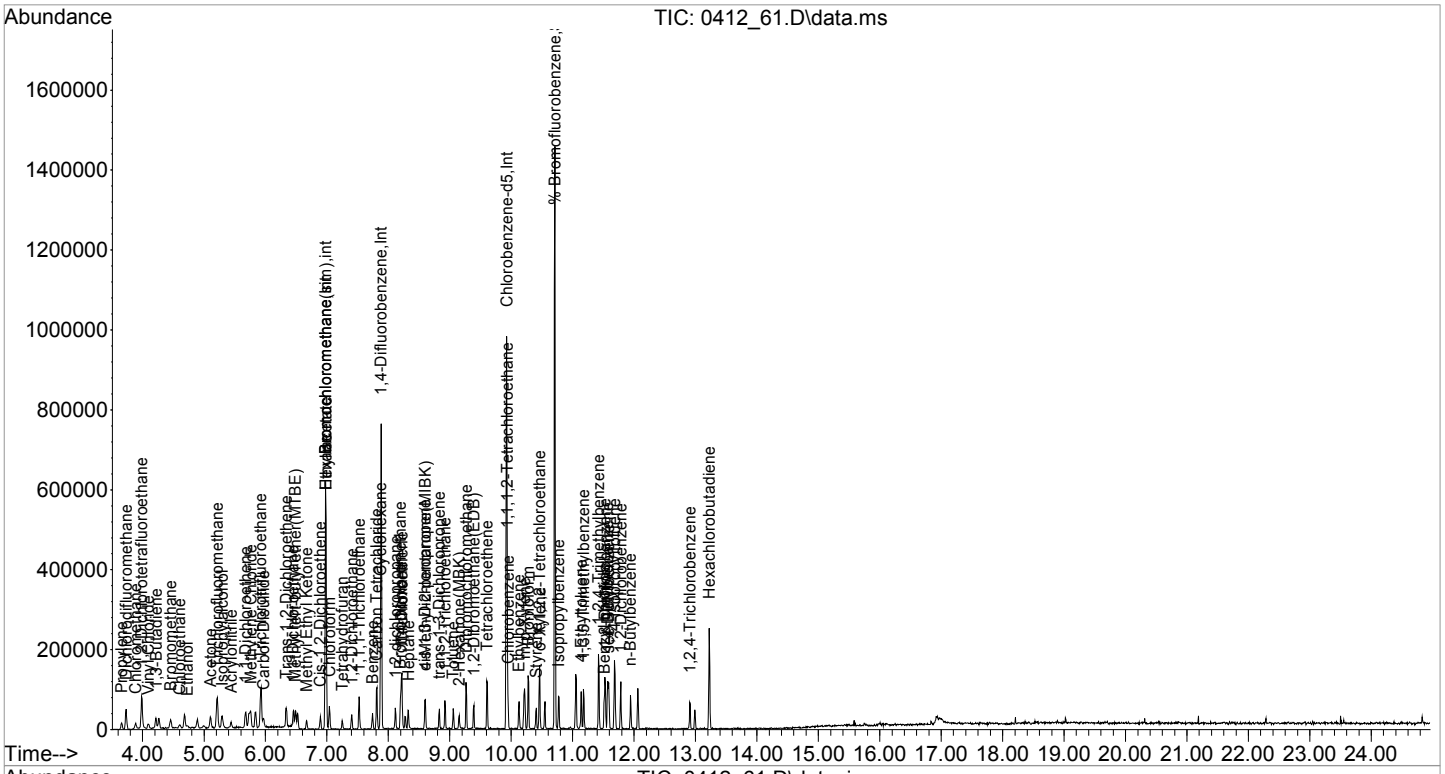
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	22580	1.095	ppbv	94
115] Isopropylbenzene(sim)	10.773	105	34363	1.053	ppbv#	68
117] 4-Ethyltoluene(sim)	11.136	105	35298	1.160	ppbv	96
118] 1,3,5-Trimethylbenzene...	11.178	105	28782	1.099	ppbv	90
119] 1,2,4-Trimethylbenzene...	11.426	105	30828	1.194	ppbv#	96
121] Benzyl chloride(sim)	11.514	91	25567	1.166	ppbv	96
122] 1,3-Dichlorobenzene(sim)	11.526	146	27411	1.201	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.574	146	34564	1.362	ppbv	97
124] sec-Butylbenzene(sim)	11.423	105	28461	1.239	ppbv	79
125] 4-Isopropyltoluene(sim)	11.678	119	40953	1.313	ppbv#	91
126] 1,2-Dichlorobenzene(sim)	11.786	146	28698	1.278	ppbv	90
127] n-Butylbenzene(sim)	11.945	91	29728	1.157	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.905	180	14121	1.238	ppbv	97
130] Hexachlorobutadiene(sim)	13.224	225	29158	1.221	ppbv	96

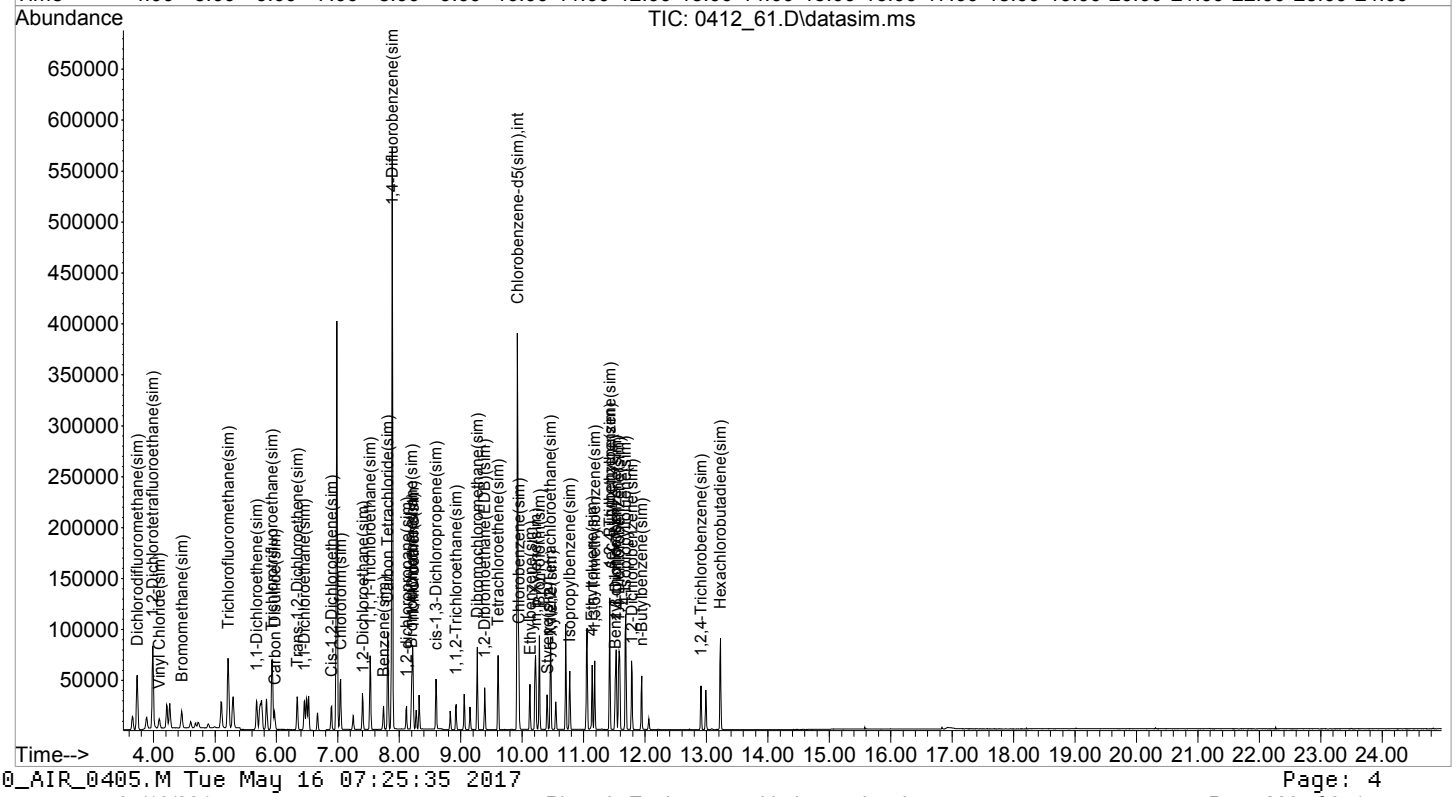
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_61.D
Acq On : 14 Apr 2017 08:09 am
Operator : CORTEX\ms
Client ID : CCAL 1
Lab ID : 1.0
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:17:59 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/14/17 Time: 08:46

Lab File Id: 0412_62.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Propylene	1.042	0.804		22.8	30
Dichlorodifluoromethane	3.598	3.848		-6.9	30
Chloromethane	1.246	0.997		20.0	30
1,2-Dichlorotetrafluoroethane	3.088	3.060		0.9	30
Vinyl Chloride	1.004	0.799		20.4	30
1,3-Butadiene	0.861	0.747		13.2	30
Bromomethane	0.989	0.848		14.3	30
Chloroethane	0.461	0.332		28.0	30
Ethanol	0.675	0.456		32.4 #	30
Acetone	3.099	2.870		7.4	30
Trichlorofluoromethane	4.252	4.897		-15.2	30
Isopropylalcohol	3.052	2.447		19.8	30
Acrylonitrile	0.965	0.787		18.4	30
1,1-Dichloroethene	2.169	2.108		2.8	30
Methylene Chloride	2.208	1.902		13.9	30
Carbon Disulfide	2.252	1.916		14.9	30
Trichlorotrifluoroethane	2.360	2.428		-2.9	30
Trans-1,2-Dichloroethene	1.688	1.675		0.8	30
1,1-Dichloroethane	1.801	1.824		-1.3	30
Methyl tert-butyl ether(MTBE)	2.069	1.957		5.4	30
Methyl Ethyl Ketone	2.157	1.796		16.7	30
Cis-1,2-Dichloroethene	1.181	1.063		10.0	30
Hexane	0.871	0.751		13.8	30
Chloroform	2.101	2.044		2.7	30
Ethyl acetate	0.201	0.148		26.4	30
Tetrahydrofuran	0.851	0.746		12.3	30
1,2-Dichloroethane	1.777	1.921		-8.1	30
1,1,1-Trichloroethane	2.474	2.803		-13.3	30
Benzene	1.858	1.768		4.8	30
Carbon Tetrachloride	3.108	3.844		-23.7	30
Cyclohexane	0.776	0.895		-15.3	30
1,2-dichloropropane	0.224	0.196		12.5	30
Bromodichloromethane	0.831	0.871		-4.8	30
Trichloroethene	0.426	0.470		-10.3	30
1,4-Dioxane	0.144	0.144		0.0	30
Heptane	0.370	0.372		-0.5	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM20 Calibration Date: 04/14/17 Time: 08:46

Lab File Id: 0412_62.D Init. Calib. Date(s): 04/05/17 04/05/17

Heated Purge (Y/N): Y Init. Calib. Times: 12:02 18:16

GC Column: zb-1ms Method File: 20_AIR_0405.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.391	0.408		-4.3	30
4-Methyl-2-pentanone(MIBK)	0.594	0.694		-16.8	30
trans-1,3-Dichloropropene	0.398	0.432		-8.5	30
1,1,2-Trichloroethane	0.313	0.314		-0.3	30
Toluene	0.699	0.757		-8.3	30
Dibromochloromethane	1.013	1.154		-13.9	30
2-Hexanone(MBK)	0.555	0.674		-21.4	30
1,2-Dibromoethane(EDB)	0.599	0.662		-10.5	30
Tetrachloroethene	0.566	0.685		-21.0	30
1,1,1,2-Tetrachloroethane	1.214	1.329		-9.5	30
Chlorobenzene	1.611	1.667		-3.5	30
Ethylbenzene	2.075	2.238		-7.9	30
m,p-Xylene	1.693	1.952		-15.3	30
Bromoform	2.298	2.633		-14.6	30
Styrene	1.137	1.342		-18.0	30
1,1,2,2-Tetrachloroethane	1.447	1.312		9.3	30
o-Xylene	1.745	1.965		-12.6	30
Isopropylbenzene	2.322	2.640		-13.7	30
4-Ethyltoluene	2.392	2.897		-21.1	30
1,3,5-Trimethylbenzene	2.143	2.507		-17.0	30
1,2,4-Trimethylbenzene	2.170	2.635		-21.4	30
Benzyl chloride	1.901	2.277		-19.8	30
1,3-Dichlorobenzene	1.840	2.206		-19.9	30
1,4-Dichlorobenzene	1.724	2.251		-30.6 #	30
sec-Butylbenzene	2.769	3.275		-18.3	30
4-Isopropyltoluene	2.671	3.418		-28.0	30
1,2-Dichlorobenzene	1.807	2.158		-19.4	30
n-Butylbenzene	2.158	2.722		-26.1	30
1,2,4-Trichlorobenzene	1.107	1.713		-54.7 #	30
Hexachlorobutadiene	1.751	2.265		-29.4	30
% Bromofluorobenzene	1.360	1.333		2.0	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_62.D
Acq On : 14 Apr 2017 08:46 am
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:18:33 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.987	130	108021	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.889	114	304589	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	148237	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.987	130	108021	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	362811	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	163870	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	197642	9.803	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	3.659	41	86823	7.712	ppbv		91
3) Dichlorodifluoromethane	3.732	85	415701	10.697	ppbv	#	94
4) Chloromethane	3.886	50	107728	8.007	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.983	85	330548	9.911	ppbv		97
6) Vinyl Chloride	4.097	62	86336	7.959	ppbv		96
7) 1,3-Butadiene	4.218	54	80670	8.673	ppbv	#	39
8) Bromomethane	4.454	94	91567	8.571	ppbv	#	82
9) Chloroethane	4.608	64	35837	7.196	ppbv	#	55
11) Ethanol	4.729	45	49245	6.750	ppbv	#	90
12) Acetone	5.094	43	309970	9.260	ppbv	#	67
13) Trichlorofluoromethane	5.216	101	528932	11.515	ppbv		99
14) Isopropylalcohol	5.289	45	264331	8.018	ppbv	#	75
15) Acrylonitrile	5.441	53	85024	8.157	ppbv	#	89
16) 1,1-Dichloroethene	5.679	61	227703	9.719	ppbv	#	81
17) Methylene Chloride	5.762	49	205483	8.617	ppbv	#	68
20) Carbon Disulfide	5.970	76	206935	8.508	ppbv		98
21) Trichlorotrifluoroethane	5.929	101	262224	10.288	ppbv	#	86
22) Trans-1,2-Dichloroethene	6.339	61	180901	9.918	ppbv		88
23) 1,1-Dichloroethane	6.459	63	197001	10.125	ppbv		96
24) Methyl tert-butyl ethe...	6.485	73	211426	9.459	ppbv	#	83
25) Methyl Ethyl Ketone	6.668	43	194006	8.326	ppbv	#	87
26) Cis-1,2-Dichloroethene	6.902	61	114838	9.003	ppbv		92
27) Hexane	6.995	57	81087	8.622	ppbv	#	21
28) Chloroform	7.049	83	220747	9.725	ppbv	#	83
29) Ethyl acetate	6.987	61	15997	7.375	ppbv	#	1
30) Tetrahydrofuran	7.242	42	80549	8.766	ppbv	#	77
31) 1,2-Dichloroethane	7.405	62	207498	10.809	ppbv		98
32) 1,1,1-Trichloroethane	7.529	97	302801	11.329	ppbv	#	92
33) Benzene	7.748	78	191027	9.519	ppbv	#	84
34) Carbon Tetrachloride	7.815	117	415210	12.367	ppbv		99
35) Cyclohexane	7.873	41	96700	11.541	ppbv	#	44
37) 1,2-dichloropropane	8.121	63	59703	8.735	ppbv	#	1
38) Bromodichloromethane	8.204	83	265263	10.474	ppbv		99
39) Trichloroethene	8.221	130	143208	11.046	ppbv		94
41) 1,4-Dioxane	8.204	88	43920	10.004	ppbv	#	87
43) Heptane	8.329	43	113256	10.039	ppbv	#	76
44) cis-1,3-Dichloropropene	8.594	75	124293	10.448	ppbv		92
45) 4-Methyl-2-pentanone(M...	8.594	43	211442	11.679	ppbv	#	83
46) trans-1,3-Dichloropropene	8.830	75	131704	10.864	ppbv		98
47) 1,1,2-Trichloroethane	8.921	97	95548	10.030	ppbv		97
48) Toluene	9.055	91	230498	10.823	ppbv	#	98
49) Dibromochloromethane	9.266	129	351439	11.390	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_62.D
Acq On : 14 Apr 2017 08:46 am
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:18:33 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	9.146	43	205365	12.156	ppbv#	73
51)	1,2-Dibromoethane(EDB)	9.393	107	201729	11.056	ppbv	99
52)	Tetrachloroethene	9.611	166	208720	12.096	ppbv	99
54)	1,1,1,2-Tetrachloroethane	9.934	131	197057	10.949	ppbv	98
55)	Chlorobenzene	9.949	112	247037	10.347	ppbv	94
56)	Ethylbenzene	10.126	91	331692	10.785	ppbv	97
57)	m,p-Xylene	10.215	91	578613	23.052	ppbv	100
58)	Bromoform	10.282	173	390295	11.460	ppbv	99
59)	Styrene	10.408	104	198919	11.807	ppbv#	89
60)	1,1,2,2-Tetrachloroethane	10.459	83	194461	9.065	ppbv#	88
61)	o-Xylene	10.467	91	291356	11.266	ppbv	99
64)	Isopropylbenzene	10.778	105	391390	11.369	ppbv	97
66)	4-Ethyltoluene	11.141	105	429463	12.112	ppbv	94
67)	1,3,5-Trimethylbenzene	11.178	105	371610	11.697	ppbv	98
68)	1,2,4-Trimethylbenzene	11.422	105	390665	12.144	ppbv#	96
70)	Benzyl chloride	11.519	91	337472	11.978	ppbv#	95
71)	1,3-Dichlorobenzene	11.534	146	327028	11.989	ppbv	99
72)	1,4-Dichlorobenzene	11.571	146	333738	13.061	ppbv	98
73)	sec-Butylbenzene	11.586	105	485410	11.828	ppbv#	93
74)	4-Isopropyltoluene	11.682	119	506648	12.798	ppbv#	93
75)	1,2-Dichlorobenzene	11.786	146	319854	11.941	ppbv	96
76)	n-Butylbenzene	11.941	91	403442	12.613	ppbv	93
77)	1,2,4-Trichlorobenzene	12.913	180	253912	15.479	ppbv	98
79)	Hexachlorobutadiene	13.224	225	335746	12.934	ppbv	99
81]	Dichlorodifluoromethan...	3.735	85	509078	10.505	ppbv	95
82]	1,2-Dichlorotetrafluor...	3.983	85	330548	9.421	ppbv	97
83]	Vinyl Chloride(sim)	4.091	62	105413	7.741	ppbv	97
84]	Bromomethane(sim)	4.454	94	91567	7.191	ppbv#	82
85]	Trichlorofluoromethane...	5.219	101	663742	11.080	ppbv	100
86]	1,2-Dichloroethane(sim)	7.405	62	207498	10.628	ppbv	98
87]	1,1,1-Trichloroethane(...	7.532	97	388684	11.328	ppbv#	94
88]	Carbon Tetrachloride(sim)	7.815	117	415210	12.218	ppbv	99
89]	1,1-Dichloroethene(sim)	5.682	61	274692	9.729	ppbv#	84
90]	Carbon Disulfide(sim)	5.970	76	206935	8.100	ppbv	98
91]	Trichlorotrifluoroetha...	5.932	101	332796	10.032	ppbv	99
92]	Trans-1,2-Dichloroethe...	6.339	61	180901	9.137	ppbv	88
93]	1,1-Dichloroethane(sim)	6.462	63	233688	9.466	ppbv#	94
94]	Cis-1,2-Dichloroethene...	6.902	61	114838	9.334	ppbv	92
95]	Chloroform(sim)	7.052	83	285266	9.799	ppbv#	86
96]	Benzene(sim)	7.748	78	191027	8.903	ppbv#	84
98]	1,2-dichloropropane(sim)	8.121	63	59706	8.256	ppbv#	1
99]	Bromodichloromethane(sim)	8.207	85	215907	10.837	ppbv#	41
100]	Trichloroethene(sim)	8.221	130	143208	10.846	ppbv	95
101]	1,4-Dioxane(sim)	8.207	88	49848	11.052	ppbv#	85
102]	cis-1,3-Dichloropropen...	8.594	75	124293	11.856	ppbv#	92
103]	1,1,2-Trichloroethane(...	8.924	97	125433	10.070	ppbv	94
104]	Dibromochloromethane(sim)	9.266	129	351439	11.541	ppbv	98
105]	1,2-Dibromoethane(EDB)...	9.389	107	257237	11.528	ppbv	100
106]	Tetrachloroethene(sim)	9.611	166	208309	12.513	ppbv	99
108]	Bromoform(sim)	10.282	173	390295	9.759	ppbv	99
109]	Chlorobenzene(sim)	9.944	112	297443	8.611	ppbv#	90
110]	Ethylbenzene(sim)	10.126	91	331692	9.856	ppbv#	96
111]	m,p-Xylene(sim)	10.218	91	644814	21.982	ppbv	97
112]	Styrene(sim)	10.408	104	198919	11.597	ppbv#	89
113]	1,1,2,2-Tetrachloroeth...	10.462	83	250274	8.244	ppbv#	96

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_62.D
Acq On : 14 Apr 2017 08:46 am
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:18:33 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

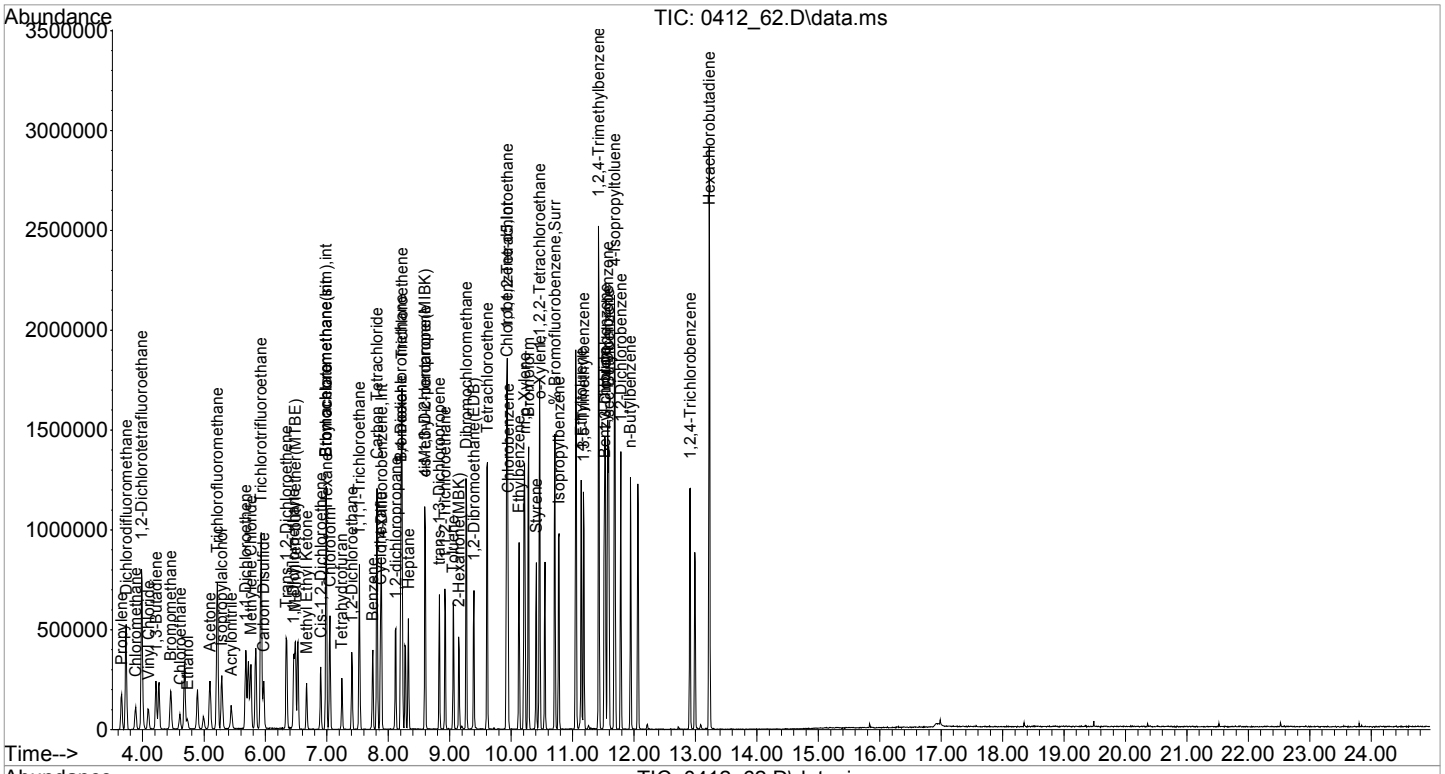
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	291356	11.098	ppbv	99
115] Isopropylbenzene(sim)	10.773	105	424852	10.225	ppbv#	67
117] 4-Ethyltoluene(sim)	11.136	105	468117	12.079	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.178	105	371610	11.149	ppbv	96
119] 1,2,4-Trimethylbenzene...	11.425	105	427238	12.996	ppbv#	94
121] Benzyl chloride(sim)	11.514	91	374061	13.402	ppbv	95
122] 1,3-Dichlorobenzene(sim)	11.534	146	327028	11.251	ppbv	100
123] 1,4-Dichlorobenzene(sim)	11.574	146	429002	13.282	ppbv	97
124] sec-Butylbenzene(sim)	11.422	105	390378	13.350	ppbv	79
125] 4-Isopropyltoluene(sim)	11.677	119	534766	13.468	ppbv#	90
126] 1,2-Dichlorobenzene(sim)	11.786	146	319854	11.187	ppbv	98
127] n-Butylbenzene(sim)	11.944	91	443148	13.549	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	253912	17.490	ppbv	99
130] Hexachlorobutadiene(sim)	13.224	225	335926	11.047	ppbv	100

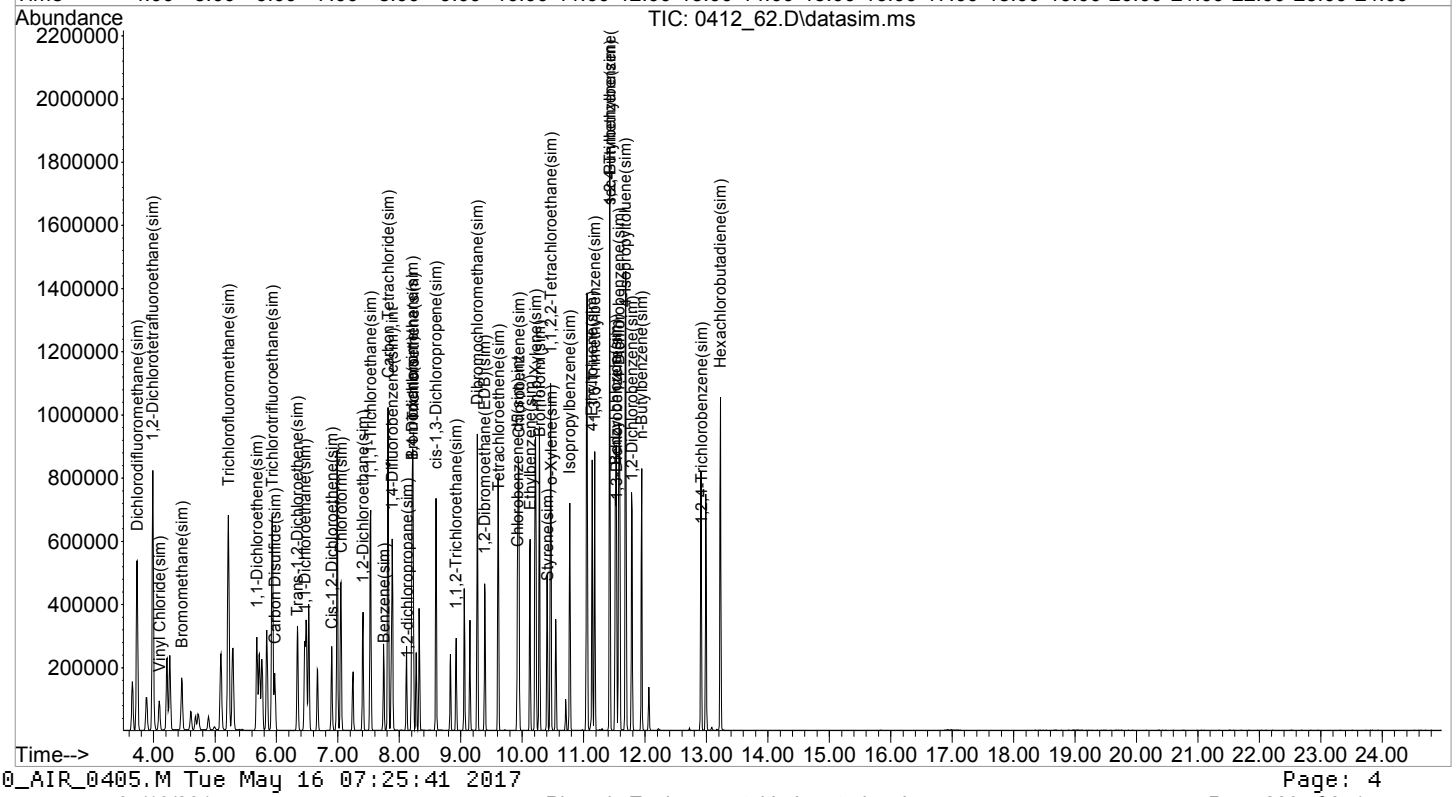
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_62.D
Acq On : 14 Apr 2017 08:46 am
Operator : CORTEX\ms
Client ID : CCAL 10
Lab ID : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:18:33 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/17/17 Time: 10:01

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichlorotetrafluoroethane(sim)	3.062	2.651		13.4	30
Vinyl Chloride(sim)	0.827	0.768		7.1	30
Bromomethane(sim)	1.273	1.067		16.2	30
Trichlorofluoromethane(sim)	4.345	3.262		24.9	30
Trans-1,2-Dichloroethene(sim)	1.544	1.364		11.7	30
1,1-Dichloroethene(sim)	1.744	1.490		14.6	30
1,1-Dichloroethane(sim)	1.898	1.785		6.0	30
Cis-1,2-Dichloroethene(sim)	1.287	1.235		4.0	30
1,2-Dichloroethane(sim)	2.049	1.807		11.8	30
1,1,1-Trichloroethane(sim)	2.862	2.497		12.8	30
Carbon Tetrachloride(sim)	3.485	2.962		15.0	30
Trichlorotrifluoroethane(sim)	2.603	2.111		18.9	30
1,2-dichloropropane(sim)	0.184	0.172		6.5	30
Bromodichloromethane(sim)	0.770	0.723		6.1	30
Trichloroethene(sim)	0.350	0.332		5.1	30
1,4-Dioxane(sim)	0.183	0.155		15.3	30
cis-1,3-Dichloropropene(sim)	0.439	0.418		4.8	30
1,1,2-Trichloroethane(sim)	0.404	0.344		14.9	30
Dibromochloromethane(sim)	0.807	0.702		13.0	30
1,2-Dibromoethane(EDB)(sim)	0.687	0.633		7.9	30
Tetrachloroethene(sim)	0.475	0.463		2.5	30
Bromoform(sim)	1.436	1.385		3.6	30
1,1,1,2-Tetrachloroethane(sim)	1.002	0.873		12.9	30
m,p-Xylene(sim)	2.024	1.991		1.6	30
1,1,2,2-Tetrachloroethane(sim)	1.771	1.540		13.0	30
Benzyl chloride(sim)	1.767	1.594		9.8	30
1,3-Dichlorobenzene(sim)	1.821	1.587		12.9	30
1,4-Dichlorobenzene(sim)	1.512	1.357		10.3	30
sec-Butylbenzene(sim)	3.444	3.140		8.8	30
4-Isopropyltoluene(sim)	2.875	2.867		0.3	30
1,2-Dichlorobenzene(sim)	1.877	1.581		15.8	30
n-Butylbenzene(sim)	2.453	2.401		2.1	30
1,2,4-Trichlorobenzene(sim)	0.785	0.709		9.7	30
Hexachlorobutadiene(sim)	1.738	1.437		17.3	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2017 10:01 am
Operator : Keith
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1.0 ppb 01B - 1.0 ppb 01B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:03:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.951	130	120814	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.948	114	404473	10.000	ng		0.01
53) Chlorobenzene-d5	9.222	82	204079	10.000	ng		0.00
80) Bromochloromethane(sim)	3.951	130	120814	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.944	114	441158	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	218007	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.132	95	285247	10.636	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.40%				
Target Compounds							Qvalue
2) Propylene	1.520	41	5050	0.762	ppbv		95
3) Dichlorodifluoromethane	1.554	85	34417	0.730	ppbv		99
4) Chloromethane	1.613	52	2359	0.760	ppbv	#	82
5) 1,2-Dichlorotetrafluor...	1.656	85	29908	0.779	ppbv		89
6) Vinyl Chloride	1.698	62	9276	0.794	ppbv		99
7) 1,3-Butadiene	1.757	54	5727	0.795	ppbv	#	89
8) Bromomethane	1.859	94	11923	0.800	ppbv	#	97
9) Chloroethane	1.927	64	4245	0.817	ppbv		98
10) Ethanol	2.020	45	3068	0.684	ppbv		98
12) Acetone	2.206	43	15188	0.732	ppbv		94
13) Trichlorofluoromethane	2.240	101	39410	0.765	ppbv		98
14) Isopropylalcohol	2.342	45	14124	0.766	ppbv		92
15) Acrylonitrile	2.384	53	4976	0.762	ppbv		92
16) 1,1-Dichloroethene	2.528	61	18002	0.791	ppbv		92
17) Methylene Chloride	2.588	49	12313	0.797	ppbv	#	83
20) Carbon Disulfide	2.732	76	27324	0.817	ppbv		100
21) Trichlorotrifluoroethane	2.740	101	25508	0.783	ppbv		86
22) Trans-1,2-Dichloroethene	3.105	61	15066	0.814	ppbv		90
23) 1,1-Dichloroethane	3.231	63	20067	0.855	ppbv		99
24) Methyl tert-butyl ethe...	3.345	73	25920	0.789	ppbv		96
25) Methyl Ethyl Ketone	3.551	43	16171	0.827	ppbv		97
26) Cis-1,2-Dichloroethene	3.825	61	14918	0.820	ppbv		90
27) Hexane	4.031	57	11240	0.819	ppbv		96
28) Chloroform	4.071	83	29002	0.833	ppbv		96
29) Ethyl acetate	4.105	43	16675	0.753	ppbv		99
30) Tetrahydrofuran	4.498	42	6492	0.758	ppbv	#	85
31) 1,2-Dichloroethane	4.775	62	19992	0.761	ppbv	#	94
32) 1,1,1-Trichloroethane	5.049	97	30162	0.771	ppbv		99
33) Benzene	5.527	78	28943	0.808	ppbv		99
34) Carbon Tetrachloride	5.674	117	33945	0.767	ppbv		99
35) Cyclohexane	5.793	56	11487	0.826	ppbv		99
37) 1,2-dichloropropane	6.320	63	7581	0.817	ppbv	#	89
38) Bromodichloromethane	6.487	83	29737	0.784	ppbv		95
39) Trichloroethene	6.527	130	14644	0.788	ppbv	#	86
41) 1,4-Dioxane	6.627	88	6041	0.747	ppbv	#	97
43) Heptane	6.853	71	7798	0.792	ppbv	#	97
44) cis-1,3-Dichloropropene	7.260	75	18432	0.798	ppbv		93
45) 4-Methyl-2-pentanone(M...	7.374	43	17708	0.739	ppbv		98
46) trans-1,3-Dichloropropene	7.668	75	17760	0.721	ppbv		95
47) 1,1,2-Trichloroethane	7.778	97	13997	0.807	ppbv		98
48) Toluene	7.977	91	34440	0.789	ppbv		98
49) Dibromochloromethane	8.258	129	30952	0.767	ppbv		97

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2017 10:01 am
Operator : Keith
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1.0 ppb 01B - 1.0 ppb 01B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:03:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.272	43	17991	0.781	ppbv	91
51)	1,2-Dibromoethane(EDB)	8.430	107	25322	0.789	ppbv	93
52)	Tetrachloroethene	8.780	166	20410	0.784	ppbv#	90
54)	1,1,1,2-Tetrachloroethane	9.245	131	17162	0.837	ppbv	99
55)	Chlorobenzene	9.245	112	29610	0.859	ppbv#	80
56)	Ethylbenzene	9.511	91	47459	0.893	ppbv	96
57)	m,p-Xylene	9.624	91	86805	1.886	ppbv	91
58)	Bromoform	9.632	173	30201	0.844	ppbv	100
59)	Styrene	9.829	104	25170	0.875	ppbv	93
60)	1,1,2,2-Tetrachloroethane	9.882	83	30759	0.908	ppbv	95
61)	o-Xylene	9.882	91	40397	0.923	ppbv	92
64)	Isopropylbenzene	10.208	105	49351	0.870	ppbv	96
66)	4-Ethyltoluene	10.546	105	52602	0.857	ppbv	94
67)	1,3,5-Trimethylbenzene	10.589	105	49879	0.922	ppbv	93
68)	1,2,4-Trimethylbenzene	10.789	105	45780	0.851	ppbv	90
70)	Benzyl chloride	10.849	91	34753	0.814	ppbv#	91
71)	1,3-Dichlorobenzene	10.854	146	30188	0.836	ppbv#	94
72)	1,4-Dichlorobenzene	10.886	146	29588	0.859	ppbv#	95
73)	sec-Butylbenzene	10.924	105	63920	0.879	ppbv#	92
74)	4-Isopropyltoluene	11.000	119	62500	0.926	ppbv	91
75)	1,2-Dichlorobenzene	11.054	146	30148	0.868	ppbv#	95
76)	n-Butylbenzene	11.205	91	52342	0.894	ppbv#	91
77)	1,2,4-Trichlorobenzene	11.894	180	13256	0.693	ppbv#	96
79)	Hexachlorobutadiene	12.123	225	27887	0.851	ppbv	100
81]	1,2-Dichlorotetrafluor...	1.659	85	32031	0.866	ppbv	89
82]	Vinyl Chloride(sim)	1.698	62	9276	0.929	ppbv	99
83]	Bromomethane(sim)	1.862	94	12889	0.838	ug/l	99
84]	Trichlorofluoromethane...	2.240	101	39410	0.751	ppbv	98
85]	Trans-1,2-Dichloroethe...	3.101	61	16473	0.883	ppbv	93
86]	1,1-Dichloroethene(sim)	2.528	61	18002	0.854	ppbv	92
87]	1,1-Dichloroethane(sim)	3.228	63	21562	0.940	ppbv	100
88]	Cis-1,2-Dichloroethene...	3.825	61	14918	0.960	ppbv	90
89]	1,2-Dichloroethane(sim)	4.778	62	21826	0.882	ppbv	95
90]	1,1,1-Trichloroethane(...	5.049	97	30162	0.872	ppbv#	99
91]	Carbon Tetrachloride(sim)	5.677	117	35785	0.850	ppbv	100
92]	Trichlorotrifluoroetha...	2.740	101	25508	0.811	ppbv	99
94]	1,2-dichloropropane(sim)	6.320	63	7581	0.934	ppbv#	89
95]	Bromodichloromethane(sim)	6.483	83	31883	0.939	ppbv	96
96]	Trichloroethene(sim)	6.527	130	14641	0.948	ppbv#	90
97]	1,4-Dioxane(sim)	6.630	88	6831	0.845	ppbv	98
98]	cis-1,3-Dichloropropen...	7.260	75	18432	0.951	ppbv	93
99]	1,1,2-Trichloroethane(...	7.774	97	15192	0.853	ppbv	98
100]	Dibromochloromethane(sim)	8.258	129	30952	0.870	ppbv	97
101]	1,2-Dibromoethane(EDB)...	8.433	107	27927	0.922	ppbv	95
102]	Tetrachloroethene(sim)	8.780	166	20410	0.975	ppbv	90
104]	Bromoform(sim)	9.632	173	30201	0.965	ppbv	100
105]	1,1,1,2-Tetrachloroeth...	9.241	131	19038	0.871	ppbv	99
106]	m,p-Xylene(sim)	9.624	91	86805	1.967	ppbv#	91
107]	1,1,2,2-Tetrachloroeth...	9.877	83	33571	0.870	ppbv	96
110]	Benzyl chloride(sim)	10.849	91	34753	0.902	ppbv	91
111]	1,3-Dichlorobenzene(sim)	10.857	146	34602	0.872	ppbv#	94
112]	1,4-Dichlorobenzene(sim)	10.886	146	29588	0.898	ppbv	95
113]	sec-Butylbenzene(sim)	10.922	105	68464	0.912	ppbv	92
114]	4-Isopropyltoluene(sim)	11.000	119	62500	0.997	ppbv	91
115]	1,2-Dichlorobenzene(sim)	11.057	146	34465	0.842	ppbv	94

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2017 10:01 am
Operator : Keith
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1.0 ppb 01B - 1.0 ppb 01B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:03:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

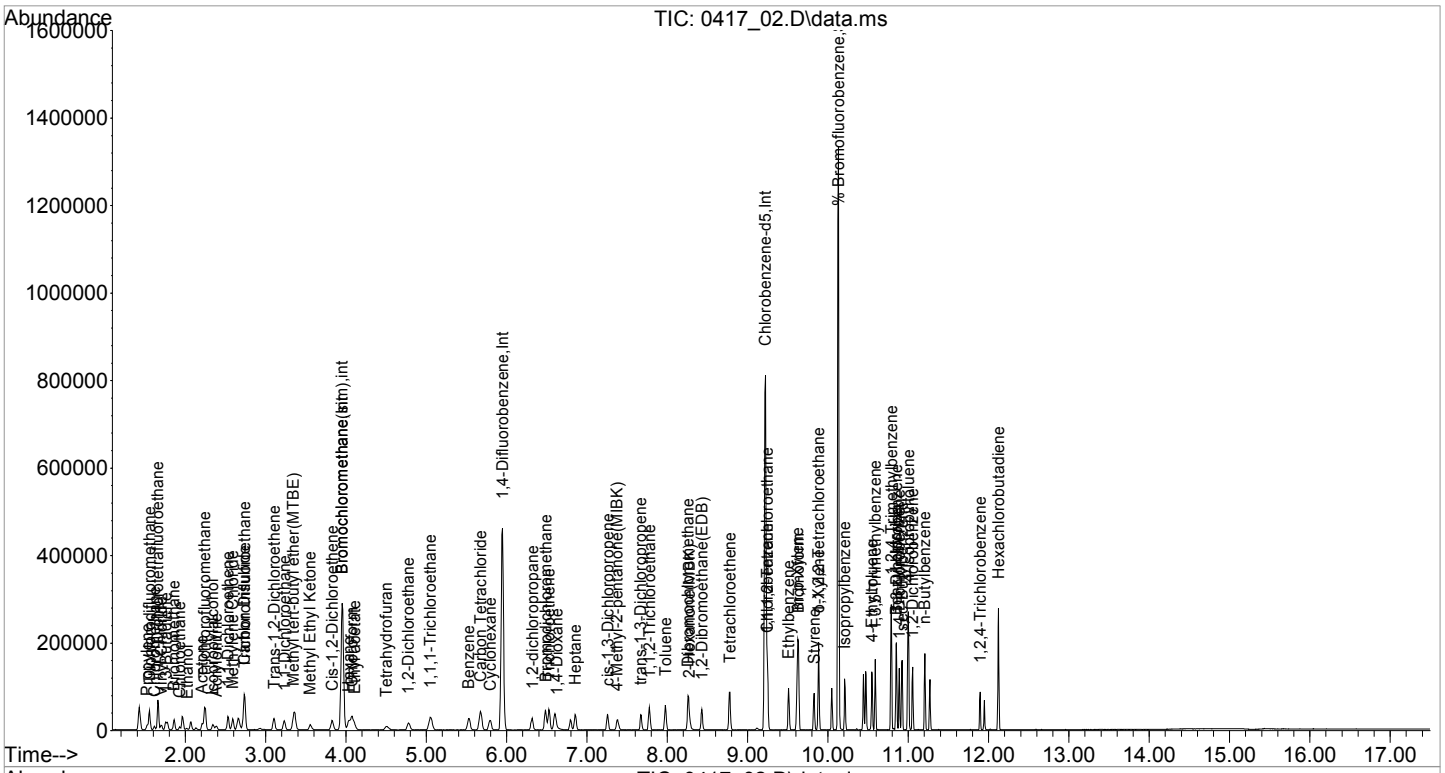
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	52342	0.979	ppbv	91
117] 1,2,4-Trichlorobenzene...	11.892	180	15446	0.902	ppbv	95
119] Hexachlorobutadiene(sim)	12.121	225	31330	0.827	ppbv	98

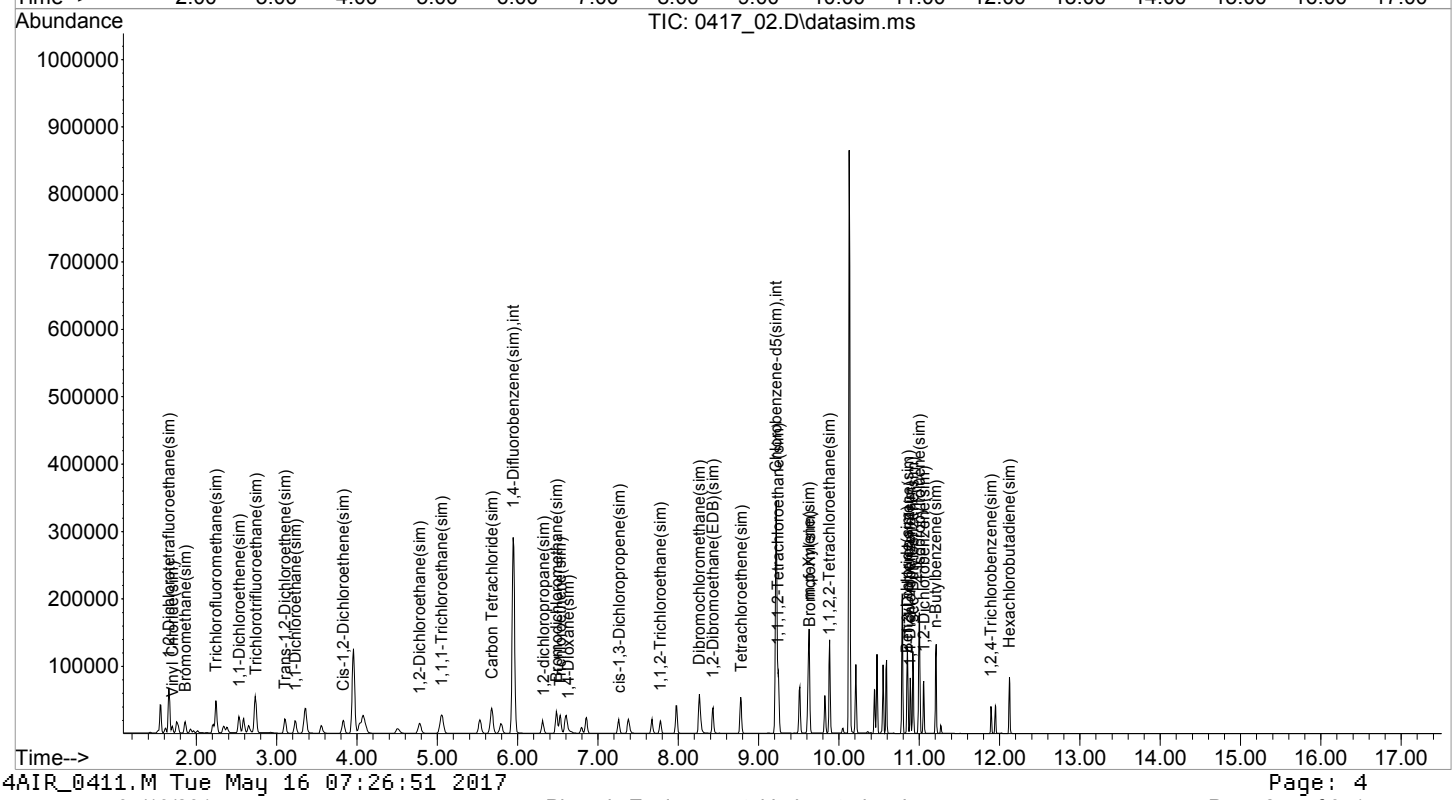
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2017 10:01 am
Operator : Keith
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1.0 ppb 01B - 1.0 ppb 01B
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:03:06 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/17/17 Time: 10:33

Lab File Id: 0417_03.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF10	RRF MIN	%D	% D LIMITS
Propylene	0.549	0.471		14.2	30
Dichlorodifluoromethane	3.902	3.243		16.9	30
Chloromethane	0.257	0.212		17.5	30
1,2-Dichlorotetrafluoroethane	3.179	2.703		15.0	30
Vinyl Chloride	0.967	0.868		10.2	30
1,3-Butadiene	0.597	0.560		6.2	30
Bromomethane	1.233	1.046		15.2	30
Chloroethane	0.430	0.369		14.2	30
Ethanol	0.371	0.254		31.5 #	30
Acetone	1.717	1.316		23.4	30
Trichlorofluoromethane	4.265	3.394		20.4	30
Isopropylalcohol	1.526	1.184		22.4	30
Acrylonitrile	0.540	0.480		11.1	30
1,1-Dichloroethene	1.885	1.608		14.7	30
Methylene Chloride	1.279	0.945		26.1	30
Carbon Disulfide	2.768	2.348		15.2	30
Trichlorotrifluoroethane	2.697	2.076		23.0	30
Trans-1,2-Dichloroethene	1.532	1.374		10.3	30
1,1-Dichloroethane	1.943	1.725		11.2	30
Methyl tert-butyl ether(MTBE)	2.719	2.543		6.5	30
Methyl Ethyl Ketone	1.618	1.449		10.4	30
Cis-1,2-Dichloroethene	1.506	1.341		11.0	30
Hexane	1.136	0.995		12.4	30
Chloroform	2.881	2.410		16.3	30
Ethyl acetate	1.833	1.515		17.3	30
Tetrahydrofuran	0.709	0.663		6.5	30
1,2-Dichloroethane	2.174	1.806		16.9	30
1,1,1-Trichloroethane	3.240	2.727		15.8	30
Benzene	2.966	2.600		12.3	30
Carbon Tetrachloride	3.661	3.097		15.4	30
Cyclohexane	1.151	1.053		8.5	30
1,2-dichloropropane	0.230	0.218		5.2	30
Bromodichloromethane	0.938	0.843		10.1	30
Trichloroethene	0.459	0.414		9.8	30
1,4-Dioxane	0.200	0.170		15.0	30
Heptane	0.243	0.228		6.2	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/17/17 Time: 10:33

Lab File Id: 0417_03.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF10	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.571	0.559		2.1	30
4-Methyl-2-pentanone(MIBK)	0.592	0.533		10.0	30
trans-1,3-Dichloropropene	0.609	0.579		4.9	30
1,1,2-Trichloroethane	0.429	0.387		9.8	30
Toluene	1.079	1.007		6.7	30
Dibromochloromethane	0.997	0.947		5.0	30
2-Hexanone(MBK)	0.570	0.529		7.2	30
1,2-Dibromoethane(EDB)	0.793	0.710		10.5	30
Tetrachloroethene	0.644	0.585		9.2	30
1,1,1,2-Tetrachloroethane	1.005	0.957		4.8	30
Chlorobenzene	1.689	1.529		9.5	30
Ethylbenzene	2.604	2.548		2.2	30
m,p-Xylene	2.255	2.160		4.2	30
Bromoform	1.754	1.674		4.6	30
Styrene	1.410	1.411		-0.1	30
1,1,2,2-Tetrachloroethane	1.659	1.461		11.9	30
o-Xylene	2.145	2.018		5.9	30
Isopropylbenzene	2.779	2.505		9.9	30
4-Ethyltoluene	3.008	2.817		6.3	30
1,3,5-Trimethylbenzene	2.651	2.403		9.4	30
1,2,4-Trimethylbenzene	2.636	2.434		7.7	30
Benzyl chloride	2.092	2.007		4.1	30
1,3-Dichlorobenzene	1.770	1.529		13.6	30
1,4-Dichlorobenzene	1.687	1.508		10.6	30
sec-Butylbenzene	3.562	3.178		10.8	30
4-Isopropyltoluene	3.309	2.930		11.5	30
1,2-Dichlorobenzene	1.703	1.486		12.7	30
n-Butylbenzene	2.867	2.700		5.8	30
1,2,4-Trichlorobenzene	0.937	0.896		4.4	30
Hexachlorobutadiene	1.605	1.438		10.4	30
% Bromofluorobenzene	1.314	1.380		-5.0	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_03.D
Acq On : 17 Apr 2017 10:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb 01D
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:03:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.965	130	109740	10.000	ng		0.02
36) 1,4-Difluorobenzene	5.948	114	369318	10.000	ng		0.01
53) Chlorobenzene-d5	9.222	82	203867	10.000	ng		0.00
80) Bromochloromethane(sim)	3.965	130	109740	10.000	ng		0.02
93) 1,4-Difluorobenzene(sim)	5.951	114	401711	10.000	ng	#	0.01
103) Chlorobenzene-d5(sim)	9.218	82	216576	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.132	95	281307	10.500	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	1.520	41	51720	8.589	ppbv		95
3) Dichlorodifluoromethane	1.546	85	355842	8.310	ppbv		99
4) Chloromethane	1.613	52	23309	8.270	ppbv#		81
5) 1,2-Dichlorotetrafluor...	1.656	85	296642	8.504	ppbv		93
6) Vinyl Chloride	1.698	62	95297	8.977	ppbv		99
7) 1,3-Butadiene	1.749	54	61474	9.391	ppbv		97
8) Bromomethane	1.859	94	114811	8.484	ppbv#		97
9) Chloroethane	1.927	64	40502	8.578	ppbv		94
10) Ethanol	2.003	45	27836	6.828	ppbv		96
12) Acetone	2.189	43	144423	7.665	ppbv		98
13) Trichlorofluoromethane	2.240	101	372481	7.958	ppbv		99
14) Isopropylalcohol	2.316	45	129945	7.761	ppbv		95
15) Acrylonitrile	2.384	53	52646	8.876	ppbv		95
16) 1,1-Dichloroethene	2.528	61	176490	8.533	ppbv		93
17) Methylene Chloride	2.588	49	103693	7.388	ppbv#		84
20) Carbon Disulfide	2.732	76	257698	8.483	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	227874	7.698	ppbv		88
22) Trans-1,2-Dichloroethene	3.105	61	150764	8.969	ppbv		90
23) 1,1-Dichloroethane	3.238	63	189336	8.881	ppbv		99
24) Methyl tert-butyl ethe...	3.311	73	279116	9.354	ppbv		95
25) Methyl Ethyl Ketone	3.531	43	159061	8.960	ppbv		94
26) Cis-1,2-Dichloroethene	3.831	61	147139	8.900	ppbv		90
27) Hexane	4.038	57	109228	8.760	ppbv		97
28) Chloroform	4.085	83	264442	8.365	ppbv		97
29) Ethyl acetate	4.078	43	166305	8.269	ppbv		97
30) Tetrahydrofuran	4.452	42	72810	9.358	ppbv#		84
31) 1,2-Dichloroethane	4.789	62	198218	8.310	ppbv#		94
32) 1,1,1-Trichloroethane	5.056	97	299253	8.417	ppbv		99
33) Benzene	5.534	78	285363	8.766	ppbv		98
34) Carbon Tetrachloride	5.681	117	339835	8.458	ppbv		100
35) Cyclohexane	5.793	56	115521	9.142	ppbv		96
37) 1,2-dichloropropane	6.320	63	80690	9.520	ppbv#		90
38) Bromodichloromethane	6.487	83	311391	8.993	ppbv		96
39) Trichloroethene	6.533	130	153032	9.021	ppbv#		88
41) 1,4-Dioxane	6.573	88	62923	8.527	ppbv		98
43) Heptane	6.860	71	84044	9.354	ppbv#		95
44) cis-1,3-Dichloropropene	7.260	75	206621	9.797	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.347	43	196703	8.996	ppbv		98
46) trans-1,3-Dichloropropene	7.675	75	214016	9.520	ppbv		95
47) 1,1,2-Trichloroethane	7.778	97	142884	9.024	ppbv		98
48) Toluene	7.977	91	371777	9.328	ppbv		97
49) Dibromochloromethane	8.265	129	349754	9.497	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_03.D
Acq On : 17 Apr 2017 10:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb 01D
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:03:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.245	43	195340	9.287	ppbv#	89
51)	1,2-Dibromoethane(EDB)	8.430	107	262155	8.949	ppbv	96
52)	Tetrachloroethene	8.780	166	216159	9.092	ppbv#	90
54)	1,1,1,2-Tetrachloroethane	9.245	131	195034	9.517	ppbv	100
55)	Chlorobenzene	9.253	112	311759	9.054	ppbv	94
56)	Ethylbenzene	9.511	91	519352	9.785	ppbv	97
57)	m,p-Xylene	9.624	91	880663	19.153	ppbv	92
58)	Bromoform	9.632	173	341363	9.545	ppbv	99
59)	Styrene	9.829	104	287631	10.005	ppbv	94
60)	1,1,2,2-Tetrachloroethane	9.882	83	297800	8.804	ppbv	97
61)	o-Xylene	9.890	91	411475	9.407	ppbv	93
64)	Isopropylbenzene	10.208	105	510663	9.013	ppbv	97
66)	4-Ethyltoluene	10.551	105	574197	9.364	ppbv	96
67)	1,3,5-Trimethylbenzene	10.589	105	489845	9.064	ppbv	93
68)	1,2,4-Trimethylbenzene	10.789	105	496117	9.232	ppbv	91
70)	Benzyl chloride	10.849	91	409131	9.593	ppbv#	92
71)	1,3-Dichlorobenzene	10.854	146	311695	8.636	ppbv#	95
72)	1,4-Dichlorobenzene	10.892	146	307516	8.942	ppbv#	95
73)	sec-Butylbenzene	10.924	105	647932	8.922	ppbv	94
74)	4-Isopropyltoluene	11.005	119	597325	8.855	ppbv#	91
75)	1,2-Dichlorobenzene	11.054	146	302864	8.725	ppbv#	95
76)	n-Butylbenzene	11.205	91	550380	9.416	ppbv	93
77)	1,2,4-Trichlorobenzene	11.894	180	182584	9.561	ppbv#	97
79)	Hexachlorobutadiene	12.123	225	293117	8.956	ppbv	100
81]	1,2-Dichlorotetrafluor...	1.659	85	321876	9.579	ppbv	90
82]	Vinyl Chloride(sim)	1.698	62	95297	10.506	ppbv	99
83]	Bromomethane(sim)	1.862	94	123677	8.855	ug/l	99
84]	Trichlorofluoromethane...	2.240	101	372481	7.813	ppbv	99
85]	Trans-1,2-Dichloroethe...	3.107	61	162106	9.566	ppbv	93
86]	1,1-Dichloroethene(sim)	2.528	61	176490	9.221	ppbv	93
87]	1,1-Dichloroethane(sim)	3.234	63	202975	9.744	ppbv	100
88]	Cis-1,2-Dichloroethene...	3.831	61	147139	10.421	ppbv	90
89]	1,2-Dichloroethane(sim)	4.785	62	211162	9.390	ppbv#	95
90]	1,1,1-Trichloroethane(...	5.056	97	299253	9.529	ppbv#	99
91]	Carbon Tetrachloride(sim)	5.677	117	358680	9.378	ppbv	100
92]	Trichlorotrifluoroetha...	2.732	101	227874	7.979	ppbv	100
94]	1,2-dichloropropane(sim)	6.320	63	80690	10.917	ppbv#	90
95]	Bromodichloromethane(sim)	6.490	83	333575	10.784	ppbv	96
96]	Trichloroethene(sim)	6.533	130	153032	10.879	ppbv#	91
97]	1,4-Dioxane(sim)	6.570	88	67239	9.140	ppbv	98
98]	cis-1,3-Dichloropropen...	7.260	75	206621	11.709	ppbv	94
99]	1,1,2-Trichloroethane(...	7.781	97	158286	9.755	ppbv	99
100]	Dibromochloromethane(sim)	8.265	129	349754	10.795	ppbv	99
101]	1,2-Dibromoethane(EDB)...	8.433	107	286772	10.392	ppbv	96
102]	Tetrachloroethene(sim)	8.780	166	216040	11.331	ppbv	90
104]	Bromoform(sim)	9.632	173	341363	10.975	ppbv	100
105]	1,1,1,2-Tetrachloroeth...	9.248	131	212528	9.791	ppbv	100
106]	m,p-Xylene(sim)	9.624	91	880651	20.088	ppbv#	92
107]	1,1,2,2-Tetrachloroeth...	9.885	83	319199	8.324	ppbv	97
110]	Benzyl chloride(sim)	10.849	91	409595	10.703	ppbv	92
111]	1,3-Dichlorobenzene(sim)	10.857	146	350386	8.885	ppbv#	95
112]	1,4-Dichlorobenzene(sim)	10.892	146	307491	9.392	ppbv	95
113]	sec-Butylbenzene(sim)	10.922	105	679554	9.111	ppbv	93
114]	4-Isopropyltoluene(sim)	11.005	119	597325	9.593	ppbv#	91
115]	1,2-Dichlorobenzene(sim)	11.057	146	341122	8.390	ppbv	95

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_03.D
Acq On : 17 Apr 2017 10:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb 01D
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:03:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

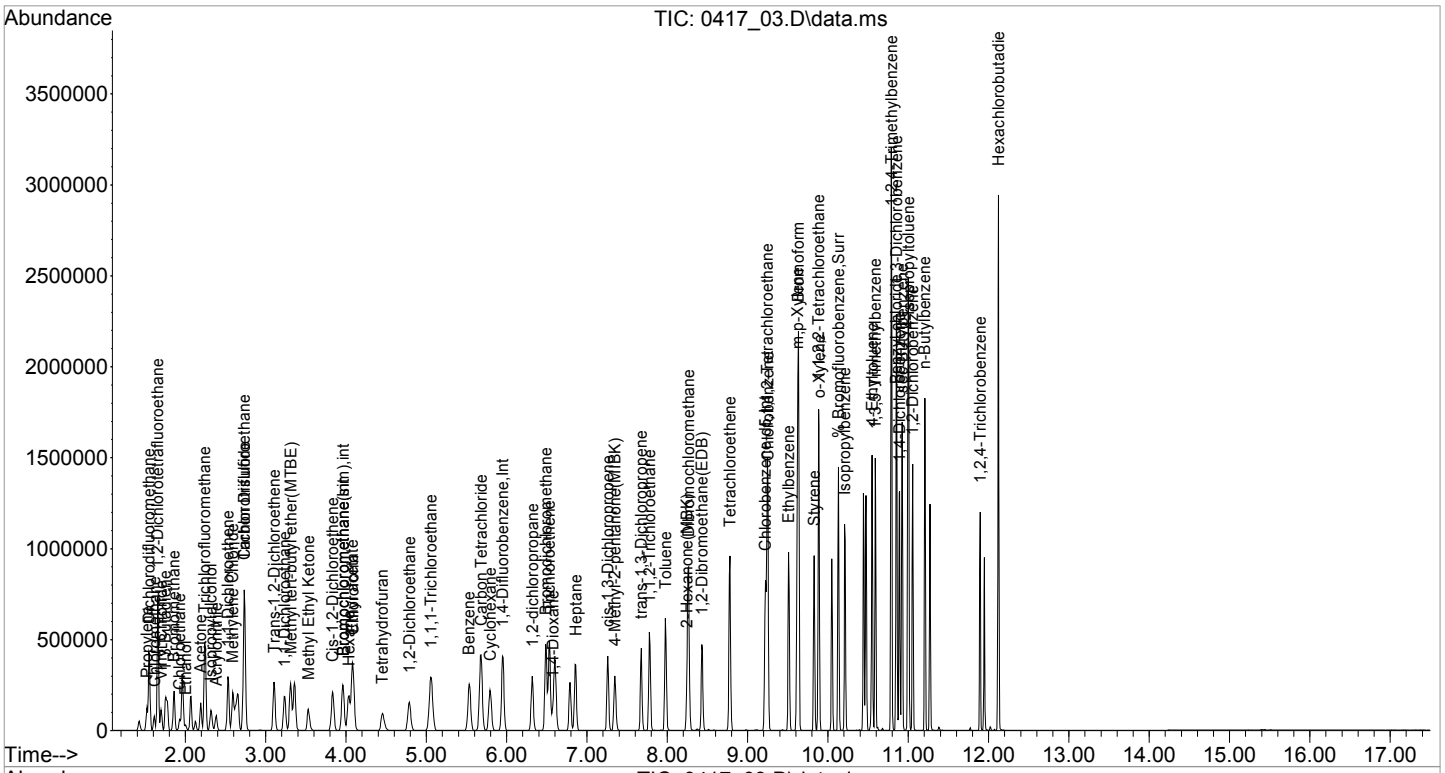
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	550380	10.358	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.892	180	206245	12.126	ppbv	95
119] Hexachlorobutadiene(sim)	12.121	225	315661	8.388	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_03.D
Acq On : 17 Apr 2017 10:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb 01D
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:03:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Sim Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/18/17 Time: 03:01

Lab File Id: 0417_31.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
1,2-Dichlorotetrafluoroethane(sim)	3.062	2.563		16.3	30
Vinyl Chloride(sim)	0.827	0.700		15.4	30
Bromomethane(sim)	1.273	0.975		23.4	30
Trichlorofluoromethane(sim)	4.345	3.018		30.5 #	30
Trans-1,2-Dichloroethene(sim)	1.544	1.362		11.8	30
1,1-Dichloroethene(sim)	1.744	1.385		20.6	30
1,1-Dichloroethane(sim)	1.898	1.751		7.7	30
Cis-1,2-Dichloroethene(sim)	1.287	1.167		9.3	30
1,2-Dichloroethane(sim)	2.049	1.839		10.2	30
1,1,1-Trichloroethane(sim)	2.862	2.553		10.8	30
Carbon Tetrachloride(sim)	3.485	3.062		12.1	30
Trichlorotrifluoroethane(sim)	2.603	1.915		26.4	30
1,2-dichloropropane(sim)	0.184	0.187		-1.6	30
Bromodichloromethane(sim)	0.770	0.720		6.5	30
Trichloroethene(sim)	0.350	0.317		9.4	30
1,4-Dioxane(sim)	0.183	0.144		21.3	30
cis-1,3-Dichloropropene(sim)	0.439	0.372		15.3	30
1,1,2-Trichloroethane(sim)	0.404	0.350		13.4	30
Dibromochloromethane(sim)	0.807	0.659		18.3	30
1,2-Dibromoethane(EDB)(sim)	0.687	0.623		9.3	30
Tetrachloroethene(sim)	0.475	0.456		4.0	30
Bromoform(sim)	1.436	1.310		8.8	30
1,1,1,2-Tetrachloroethane(sim)	1.002	0.860		14.2	30
m,p-Xylene(sim)	2.024	1.908		5.7	30
1,1,2,2-Tetrachloroethane(sim)	1.771	1.542		12.9	30
Benzyl chloride(sim)	1.767	1.576		10.8	30
1,3-Dichlorobenzene(sim)	1.821	1.690		7.2	30
1,4-Dichlorobenzene(sim)	1.512	1.385		8.4	30
sec-Butylbenzene(sim)	3.444	3.247		5.7	30
4-Isopropyltoluene(sim)	2.875	2.742		4.6	30
1,2-Dichlorobenzene(sim)	1.877	1.550		17.4	30
n-Butylbenzene(sim)	2.453	2.324		5.3	30
1,2,4-Trichlorobenzene(sim)	0.785	0.739		5.9	30
Hexachlorobutadiene(sim)	1.738	1.483		14.7	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_31.D
Acq On : 18 Apr 2017 3:01 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1.0ppb;air4r
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 08:50:05 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.931	130	107311	10.000	ng	-0.01
36) 1,4-Difluorobenzene	5.927	114	371022	10.000	ng	0.00
53) Chlorobenzene-d5	9.207	82	189521	10.000	ng	0.00
80) Bromochloromethane(sim)	3.931	130	107311	10.000	ng	-0.01
93) 1,4-Difluorobenzene(sim)	5.930	114	404870	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	9.203	82	201719	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.125	95	275700	11.069	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.70%			
Target Compounds						Qvalue
2) Propylene	1.512	41	4031	0.685	ppbv	90
3) Dichlorodifluoromethane	1.545	85	32014	0.765	ppbv	98
4) Chloromethane	1.605	52	2077	0.754	ppbv#	71
5) 1,2-Dichlorotetrafluor...	1.647	85	25244	0.740	ppbv	92
6) Vinyl Chloride	1.689	62	7511	0.724	ppbv	98
7) 1,3-Butadiene	1.740	54	4945	0.773	ppbv	98
8) Bromomethane	1.850	94	9792	0.740	ppbv#	95
9) Chloroethane	1.918	64	3393	0.735	ppbv	94
10) Ethanol	2.003	45	2335	0.586	ppbv#	91
12) Acetone	2.198	43	11779	0.639	ppbv	95
13) Trichlorofluoromethane	2.232	101	32462	0.709	ppbv	99
14) Isopropylalcohol	2.333	45	11629	0.710	ppbv#	88
15) Acrylonitrile	2.367	53	4289	0.739	ppbv	98
16) 1,1-Dichloroethene	2.511	61	14858	0.735	ppbv	95
17) Methylene Chloride	2.571	49	9428	0.687	ppbv#	83
20) Carbon Disulfide	2.715	76	21706	0.731	ppbv	99
21) Trichlorotrifluoroethane	2.723	101	20550	0.710	ppbv	89
22) Trans-1,2-Dichloroethene	3.084	61	13415	0.816	ppbv	90
23) 1,1-Dichloroethane	3.211	63	17214	0.826	ppbv	98
24) Methyl tert-butyl ethe...	3.325	73	22784	0.781	ppbv	98
25) Methyl Ethyl Ketone	3.538	43	12579	0.725	ppbv	96
26) Cis-1,2-Dichloroethene	3.805	61	12520	0.774	ppbv	90
27) Hexane	4.011	57	10045	0.824	ppbv	96
28) Chloroform	4.051	83	25780	0.834	ppbv	95
29) Ethyl acetate	4.085	43	13380	0.680	ppbv	100
30) Tetrahydrofuran	4.491	42	4787	0.629	ppbv#	87
31) 1,2-Dichloroethane	4.754	62	20272	0.869	ppbv#	93
32) 1,1,1-Trichloroethane	5.028	97	27396	0.788	ppbv	98
33) Benzene	5.505	78	25040	0.787	ppbv	99
34) Carbon Tetrachloride	5.653	117	30565	0.778	ppbv	100
35) Cyclohexane	5.772	56	9055	0.733	ppbv	93
37) 1,2-dichloropropane	6.299	63	7573	0.889	ppbv#	81
38) Bromodichloromethane	6.467	83	27080	0.779	ppbv	94
39) Trichloroethene	6.513	130	12828	0.753	ppbv#	88
41) 1,4-Dioxane	6.620	88	5051	0.681	ppbv#	80
43) Heptane	6.840	71	7364	0.816	ppbv#	93
44) cis-1,3-Dichloropropene	7.240	75	15064	0.711	ppbv	94
45) 4-Methyl-2-pentanone(M...	7.367	43	14524	0.661	ppbv	97
46) trans-1,3-Dichloropropene	7.655	75	15401	0.682	ppbv	94
47) 1,1,2-Trichloroethane	7.764	97	12870	0.809	ppbv	99
48) Toluene	7.963	91	30146	0.753	ppbv	97
49) Dibromochloromethane	8.244	129	26687	0.721	ppbv	98

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_31.D
Acq On : 18 Apr 2017 3:01 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1.0ppb;air4r
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 08:50:05 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.265	43	14496	0.686	ppbv	96
51)	1,2-Dibromoethane(EDB)	8.416	107	22920	0.779	ppbv	96
52)	Tetrachloroethene	8.766	166	18478	0.774	ppbv#	90
54)	1,1,1,2-Tetrachloroethane	9.230	131	15913	0.835	ppbv	98
55)	Chlorobenzene	9.238	112	27876	0.871	ppbv#	81
56)	Ethylbenzene	9.503	91	40384	0.818	ppbv	98
57)	m,p-Xylene	9.617	91	76963	1.801	ppbv	92
58)	Bromoform	9.617	173	26427	0.795	ppbv	99
59)	Styrene	9.821	104	21772	0.815	ppbv	94
60)	1,1,2,2-Tetrachloroethane	9.874	83	28530	0.907	ppbv	93
61)	o-Xylene	9.874	91	36817	0.905	ppbv	91
64)	Isopropylbenzene	10.200	105	44260	0.840	ppbv#	96
66)	4-Ethyltoluene	10.540	105	52810	0.926	ppbv	94
67)	1,3,5-Trimethylbenzene	10.584	105	46062	0.917	ppbv	93
68)	1,2,4-Trimethylbenzene	10.784	105	44967	0.900	ppbv	89
70)	Benzyl chloride	10.843	91	31797	0.802	ppbv#	91
71)	1,3-Dichlorobenzene	10.848	146	29364	0.875	ppbv#	94
72)	1,4-Dichlorobenzene	10.881	146	27928	0.874	ppbv#	94
73)	sec-Butylbenzene	10.913	105	60570	0.897	ppbv	93
74)	4-Isopropyltoluene	10.994	119	55320	0.882	ppbv#	90
75)	1,2-Dichlorobenzene	11.049	146	27167	0.842	ppbv#	95
76)	n-Butylbenzene	11.200	91	46880	0.863	ppbv#	91
77)	1,2,4-Trichlorobenzene	11.884	180	12590	0.709	ppbv#	97
79)	Hexachlorobutadiene	12.113	225	26840	0.882	ppbv	99
81]	1,2-Dichlorotetrafluor...	1.650	85	27504	0.837	ppbv	91
82]	Vinyl Chloride(sim)	1.689	62	7511	0.847	ppbv	98
83]	Bromomethane(sim)	1.845	94	10464	0.766	ug/l	99
84]	Trichlorofluoromethane...	2.232	101	32384	0.695	ppbv	99
85]	Trans-1,2-Dichloroethe...	3.087	61	14613	0.882	ppbv	94
86]	1,1-Dichloroethene(sim)	2.511	61	14858	0.794	ppbv	95
87]	1,1-Dichloroethane(sim)	3.214	63	18794	0.923	ppbv	100
88]	Cis-1,2-Dichloroethene...	3.805	61	12520	0.907	ppbv	90
89]	1,2-Dichloroethane(sim)	4.757	62	19730	0.897	ppbv	94
90]	1,1,1-Trichloroethane(...	5.028	97	27396	0.892	ppbv#	98
91]	Carbon Tetrachloride(sim)	5.656	117	32861	0.879	ppbv	100
92]	Trichlorotrifluoroetha...	2.723	101	20550	0.736	ppbv	99
94]	1,2-dichloropropane(sim)	6.299	63	7573	1.017	ppbv#	81
95]	Bromodichloromethane(sim)	6.463	83	29167	0.936	ppbv	96
96]	Trichloroethene(sim)	6.513	130	12828	0.905	ppbv#	92
97]	1,4-Dioxane(sim)	6.616	88	5837	0.787	ppbv	99
98]	cis-1,3-Dichloropropen...	7.240	75	15064	0.847	ppbv	94
99]	1,1,2-Trichloroethane(...	7.760	97	14160	0.866	ppbv	98
100]	Dibromochloromethane(sim)	8.244	129	26687	0.817	ppbv	98
101]	1,2-Dibromoethane(EDB)...	8.419	107	25233	0.907	ppbv	95
102]	Tetrachloroethene(sim)	8.766	166	18478	0.962	ppbv	90
104]	Bromoform(sim)	9.617	173	26427	0.912	ppbv	99
105]	1,1,1,2-Tetrachloroeth...	9.233	131	17351	0.858	ppbv	99
106]	m,p-Xylene(sim)	9.617	91	76963	1.885	ppbv#	92
107]	1,1,2,2-Tetrachloroeth...	9.870	83	31110	0.871	ppbv	96
110]	Benzyl chloride(sim)	10.843	91	31797	0.892	ppbv	91
111]	1,3-Dichlorobenzene(sim)	10.846	146	34095	0.928	ppbv#	95
112]	1,4-Dichlorobenzene(sim)	10.881	146	27928	0.916	ppbv	94
113]	sec-Butylbenzene(sim)	10.916	105	65502	0.943	ppbv	92
114]	4-Isopropyltoluene(sim)	10.994	119	55320	0.954	ppbv#	90
115]	1,2-Dichlorobenzene(sim)	11.046	146	31267	0.826	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_31.D
Acq On : 18 Apr 2017 3:01 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1.0ppb;air4r
ALS Vial : 34 Sample Multiplier: 1

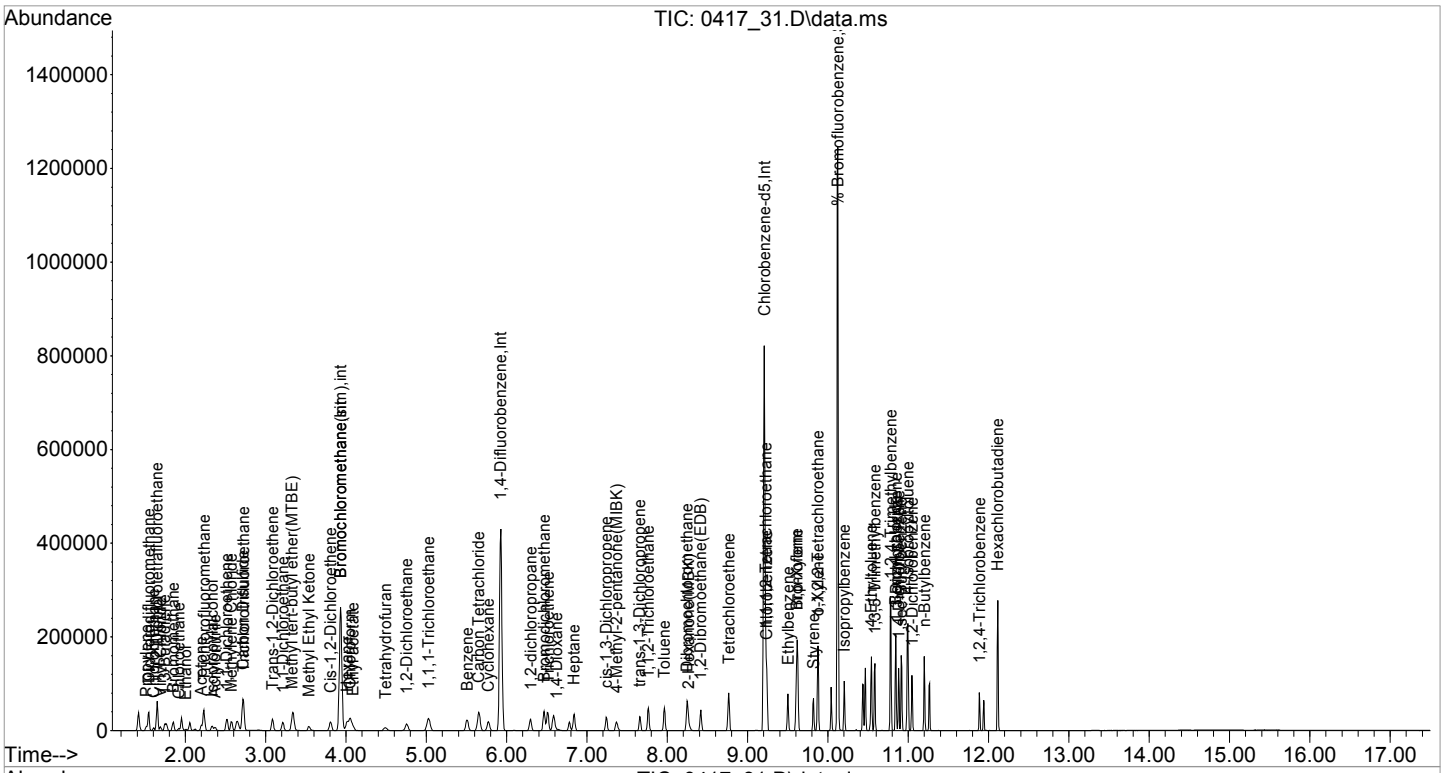
Quant Time: Apr 18 08:50:05 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

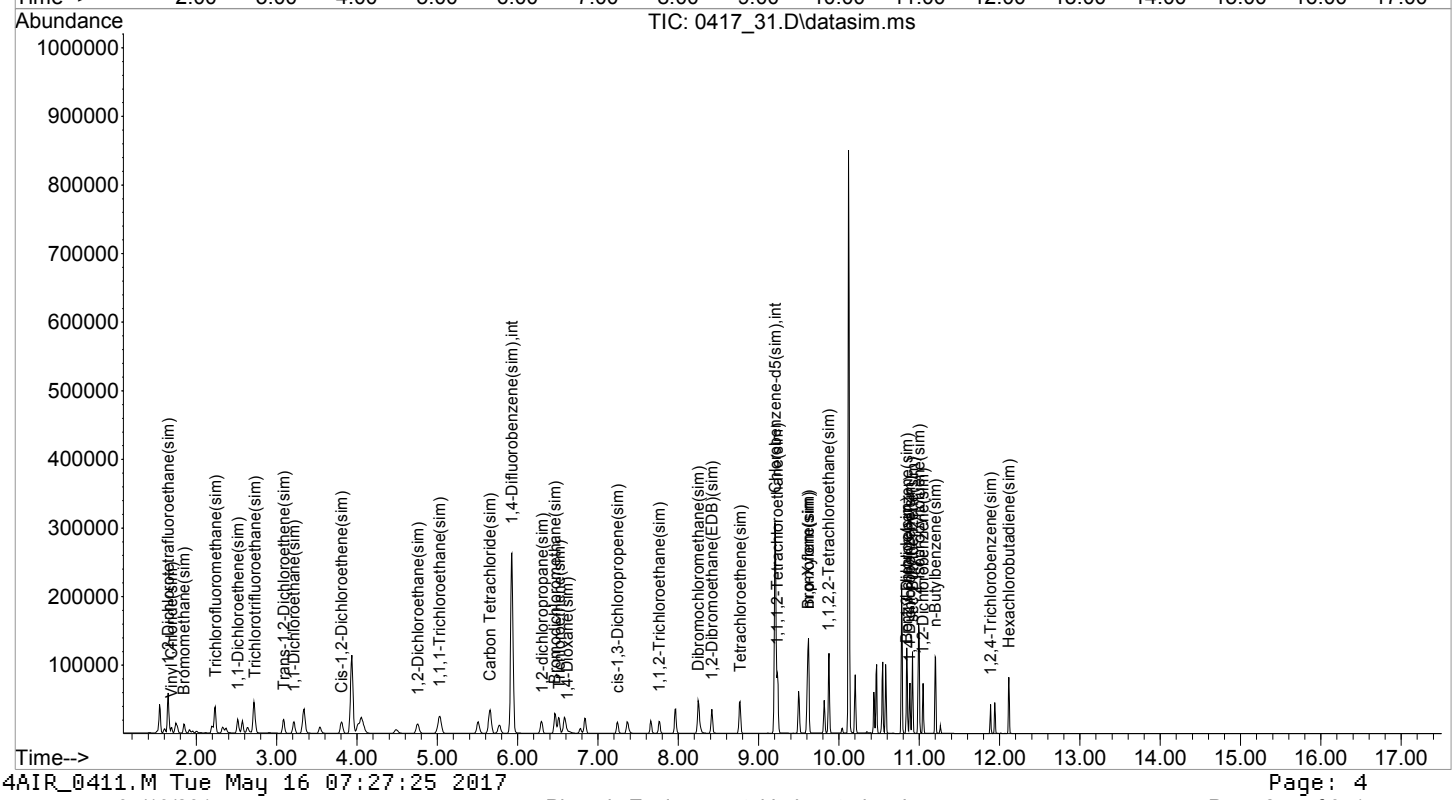
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	46880	0.947	ppbv	91
117] 1,2,4-Trichlorobenzene...	11.887	180	14912	0.941	ppbv	95
119] Hexachlorobutadiene(sim)	12.116	225	29921	0.854	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_31.D
Acq On : 18 Apr 2017 3:01 am
Operator : Keith
Client ID : CCAL 1
Lab ID : 1.0ppb;air4r
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 08:50:05 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration





7A
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/18/17 Time: 03:33

Lab File Id: 0417_32.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Propylene	0.549	0.473		13.8	30
Dichlorodifluoromethane	3.902	3.354		14.0	30
Chloromethane	0.257	0.207		19.5	30
1,2-Dichlorotetrafluoroethane	3.179	2.713		14.7	30
Vinyl Chloride	0.967	0.810		16.2	30
1,3-Butadiene	0.597	0.533		10.7	30
Bromomethane	1.233	1.007		18.3	30
Chloroethane	0.430	0.356		17.2	30
Ethanol	0.371	0.234		36.9 #	30
Acetone	1.717	1.201		30.1 #	30
Trichlorofluoromethane	4.265	3.340		21.7	30
Isopropylalcohol	1.526	1.070		29.9	30
Acrylonitrile	0.540	0.459		15.0	30
1,1-Dichloroethene	1.885	1.499		20.5	30
Methylene Chloride	1.279	0.884		30.9 #	30
Carbon Disulfide	2.768	2.193		20.8	30
Trichlorotrifluoroethane	2.697	2.010		25.5	30
Trans-1,2-Dichloroethene	1.532	1.401		8.6	30
1,1-Dichloroethane	1.943	1.692		12.9	30
Methyl tert-butyl ether(MTBE)	2.719	2.509		7.7	30
Methyl Ethyl Ketone	1.618	1.377		14.9	30
Cis-1,2-Dichloroethene	1.506	1.393		7.5	30
Hexane	1.136	1.032		9.2	30
Chloroform	2.881	2.572		10.7	30
Ethyl acetate	1.833	1.566		14.6	30
Tetrahydrofuran	0.709	0.647		8.7	30
1,2-Dichloroethane	2.174	1.986		8.6	30
1,1,1-Trichloroethane	3.240	2.770		14.5	30
Benzene	2.966	2.602		12.3	30
Carbon Tetrachloride	3.661	3.143		14.1	30
Cyclohexane	1.151	1.073		6.8	30
1,2-dichloropropane	0.230	0.223		3.0	30
Bromodichloromethane	0.938	0.860		8.3	30
Trichloroethene	0.459	0.425		7.4	30
1,4-Dioxane	0.200	0.173		13.5	30
Heptane	0.243	0.239		1.6	30

(#) Maximum %D not met.

FORM VII AIR

7B
AIR CONTINUING CALIBRATION CHECK
Full Scan

Lab Name: Phoenix Environmental Labs Client: AIRTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY03105

Instrument: CHEM24 Calibration Date: 04/18/17 Time: 03:33

Lab File Id: 0417_32.D Init. Calib. Date(s): 04/11/17 04/12/17

Heated Purge (Y/N): Y Init. Calib. Times: 19:43 02:00

GC Column: zb-1ms Method File: 24AIR_0411.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.571	0.568		0.5	30
4-Methyl-2-pentanone(MIBK)	0.592	0.540		8.8	30
trans-1,3-Dichloropropene	0.609	0.659		-8.2	30
1,1,2-Trichloroethane	0.429	0.402		6.3	30
Toluene	1.079	1.043		3.3	30
Dibromochloromethane	0.997	0.975		2.2	30
2-Hexanone(MBK)	0.570	0.551		3.3	30
1,2-Dibromoethane(EDB)	0.793	0.751		5.3	30
Tetrachloroethene	0.644	0.601		6.7	30
1,1,1,2-Tetrachloroethane	1.005	0.943		6.2	30
Chlorobenzene	1.689	1.520		10.0	30
Ethylbenzene	2.604	2.524		3.1	30
m,p-Xylene	2.255	2.117		6.1	30
Bromoform	1.754	1.673		4.6	30
Styrene	1.410	1.413		-0.2	30
1,1,2,2-Tetrachloroethane	1.659	1.490		10.2	30
o-Xylene	2.145	2.054		4.2	30
Isopropylbenzene	2.779	2.617		5.8	30
4-Ethyltoluene	3.008	2.849		5.3	30
1,3,5-Trimethylbenzene	2.651	2.484		6.3	30
1,2,4-Trimethylbenzene	2.636	2.516		4.6	30
Benzyl chloride	2.092	2.083		0.4	30
1,3-Dichlorobenzene	1.770	1.618		8.6	30
1,4-Dichlorobenzene	1.687	1.605		4.9	30
sec-Butylbenzene	3.562	3.226		9.4	30
4-Isopropyltoluene	3.309	3.024		8.6	30
1,2-Dichlorobenzene	1.703	1.537		9.7	30
n-Butylbenzene	2.867	2.868		0.0	30
1,2,4-Trichlorobenzene	0.937	0.982		-4.8	30
Hexachlorobutadiene	1.605	1.480		7.8	30
% Bromofluorobenzene	1.314	1.293		1.6	30

(#) Maximum %D not met.

FORM VII AIR

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_32.D
Acq On : 18 Apr 2017 3:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb;air4u
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 08:50:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.938	130	99665	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	331449	10.000	ng		0.00
53) Chlorobenzene-d5	9.207	82	190545	10.000	ng		0.00
80) Bromochloromethane(sim)	3.938	130	99665	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	361985	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	198286	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	246457	9.842	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%				
Target Compounds							Qvalue
2) Propylene	1.512	41	47147	8.621	ppbv		94
3) Dichlorodifluoromethane	1.545	85	334237	8.594	ppbv		99
4) Chloromethane	1.605	52	20671	8.075	ppbv#		80
5) 1,2-Dichlorotetrafluor...	1.647	85	270395	8.535	ppbv		94
6) Vinyl Chloride	1.689	62	80760	8.376	ppbv		100
7) 1,3-Butadiene	1.740	54	53169	8.943	ppbv		96
8) Bromomethane	1.850	94	100376	8.167	ppbv#		97
9) Chloroethane	1.918	64	35452	8.267	ppbv		95
10) Ethanol	1.994	45	23289	6.290	ppbv		95
12) Acetone	2.181	43	119727	6.997	ppbv		96
13) Trichlorofluoromethane	2.232	101	332848	7.830	ppbv		99
14) Isopropylalcohol	2.308	45	106678	7.015	ppbv#		92
15) Acrylonitrile	2.367	53	45747	8.492	ppbv		95
16) 1,1-Dichloroethene	2.520	61	149411	7.954	ppbv		93
17) Methylene Chloride	2.579	49	88131	6.914	ppbv#		84
20) Carbon Disulfide	2.715	76	218568	7.922	ppbv		100
21) Trichlorotrifluoroethane	2.723	101	200293	7.451	ppbv		89
22) Trans-1,2-Dichloroethene	3.091	61	139659	9.148	ppbv		91
23) 1,1-Dichloroethane	3.218	63	168617	8.709	ppbv		99
24) Methyl tert-butyl ethe...	3.291	73	250090	9.229	ppbv		96
25) Methyl Ethyl Ketone	3.511	43	137208	8.510	ppbv		95
26) Cis-1,2-Dichloroethene	3.811	61	138860	9.248	ppbv		90
27) Hexane	4.011	57	102810	9.079	ppbv		95
28) Chloroform	4.065	83	256388	8.930	ppbv		97
29) Ethyl acetate	4.058	43	156049	8.543	ppbv		97
30) Tetrahydrofuran	4.431	42	64518	9.131	ppbv#		84
31) 1,2-Dichloroethane	4.761	62	197935	9.137	ppbv#		95
32) 1,1,1-Trichloroethane	5.035	97	276100	8.551	ppbv		99
33) Benzene	5.512	78	259371	8.773	ppbv		98
34) Carbon Tetrachloride	5.660	117	313295	8.586	ppbv		99
35) Cyclohexane	5.772	56	106952	9.320	ppbv		95
37) 1,2-dichloropropane	6.299	63	74038	9.733	ppbv#		87
38) Bromodichloromethane	6.473	83	285209	9.178	ppbv		96
39) Trichloroethene	6.513	130	140851	9.252	ppbv#		88
41) 1,4-Dioxane	6.553	88	57375	8.663	ppbv		99
43) Heptane	6.840	71	79080	9.807	ppbv#		94
44) cis-1,3-Dichloropropene	7.247	75	188228	9.945	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.333	43	179088	9.126	ppbv		99
46) trans-1,3-Dichloropropene	7.661	75	218524	10.831	ppbv#		90
47) 1,1,2-Trichloroethane	7.764	97	133384	9.387	ppbv		98
48) Toluene	7.963	91	345788	9.667	ppbv		97
49) Dibromochloromethane	8.251	129	323084	9.775	ppbv		99

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_32.D
Acq On : 18 Apr 2017 3:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb;air4u
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 08:50:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.238	43	182577	9.672	ppbv#	90
51)	1,2-Dibromoethane(EDB)	8.423	107	248943	9.469	ppbv	96
52)	Tetrachloroethene	8.766	166	199058	9.330	ppbv#	90
54)	1,1,1,2-Tetrachloroethane	9.238	131	179738	9.384	ppbv	98
55)	Chlorobenzene	9.238	112	289706	9.001	ppbv	94
56)	Ethylbenzene	9.503	91	480957	9.695	ppbv	97
57)	m,p-Xylene	9.617	91	806704	18.771	ppbv	92
58)	Bromoform	9.624	173	318848	9.538	ppbv	100
59)	Styrene	9.821	104	269303	10.022	ppbv	94
60)	1,1,2,2-Tetrachloroethane	9.874	83	283920	8.980	ppbv	97
61)	o-Xylene	9.874	91	391333	9.572	ppbv	93
64)	Isopropylbenzene	10.200	105	498644	9.416	ppbv	97
66)	4-Ethyltoluene	10.540	105	542896	9.473	ppbv	95
67)	1,3,5-Trimethylbenzene	10.583	105	473352	9.371	ppbv	93
68)	1,2,4-Trimethylbenzene	10.784	105	479440	9.545	ppbv	91
70)	Benzyl chloride	10.843	91	396950	9.959	ppbv#	92
71)	1,3-Dichlorobenzene	10.848	146	308302	9.140	ppbv#	95
72)	1,4-Dichlorobenzene	10.881	146	305879	9.516	ppbv#	95
73)	sec-Butylbenzene	10.919	105	614636	9.056	ppbv	93
74)	4-Isopropyltoluene	10.994	119	576140	9.139	ppbv#	91
75)	1,2-Dichlorobenzene	11.049	146	292960	9.030	ppbv#	95
76)	n-Butylbenzene	11.200	91	546402	10.001	ppbv	93
77)	1,2,4-Trichlorobenzene	11.889	180	187120	10.483	ppbv#	97
79)	Hexachlorobutadiene	12.113	225	281979	9.218	ppbv	100
81]	1,2-Dichlorotetrafluor...	1.650	85	293423	9.615	ppbv	91
82]	Vinyl Chloride(sim)	1.689	62	80760	9.803	ppbv	100
83]	Bromomethane(sim)	1.845	94	109349	8.621	ug/l	99
84]	Trichlorofluoromethane...	2.232	101	332848	7.687	ppbv	99
85]	Trans-1,2-Dichloroethe...	3.087	61	151100	9.818	ppbv	94
86]	1,1-Dichloroethene(sim)	2.520	61	149411	8.595	ppbv	93
87]	1,1-Dichloroethane(sim)	3.221	63	181682	9.604	ppbv	100
88]	Cis-1,2-Dichloroethene...	3.811	61	138860	10.828	ppbv	90
89]	1,2-Dichloroethane(sim)	4.764	62	195873	9.591	ppbv#	94
90]	1,1,1-Trichloroethane(...	5.035	97	276100	9.680	ppbv#	99
91]	Carbon Tetrachloride(sim)	5.656	117	332550	9.574	ppbv	100
92]	Trichlorotrifluoroetha...	2.723	101	200293	7.722	ppbv	100
94]	1,2-dichloropropane(sim)	6.299	63	74038	11.116	ppbv#	87
95]	Bromodichloromethane(sim)	6.469	83	306989	11.013	ppbv	96
96]	Trichloroethene(sim)	6.513	130	140851	11.112	ppbv#	91
97]	1,4-Dioxane(sim)	6.556	88	62145	9.374	ppbv	99
98]	cis-1,3-Dichloropropen...	7.247	75	188228	11.837	ppbv	94
99]	1,1,2-Trichloroethane(...	7.767	97	146705	10.033	ppbv	99
100]	Dibromochloromethane(sim)	8.251	129	323084	11.067	ppbv	99
101]	1,2-Dibromoethane(EDB)...	8.419	107	272989	10.978	ppbv	96
102]	Tetrachloroethene(sim)	8.766	166	199058	11.586	ppbv	90
104]	Bromoform(sim)	9.624	173	318848	11.197	ppbv	100
105]	1,1,1,2-Tetrachloroeth...	9.233	131	198472	9.987	ppbv	100
106]	m,p-Xylene(sim)	9.617	91	806813	20.101	ppbv#	91
107]	1,1,2,2-Tetrachloroeth...	9.877	83	307025	8.745	ppbv	97
110]	Benzyl chloride(sim)	10.843	91	396950	11.330	ppbv	92
111]	1,3-Dichlorobenzene(sim)	10.851	146	349041	9.667	ppbv#	95
112]	1,4-Dichlorobenzene(sim)	10.881	146	305879	10.204	ppbv	95
113]	sec-Butylbenzene(sim)	10.916	105	650892	9.531	ppbv	93
114]	4-Isopropyltoluene(sim)	10.994	119	576140	10.106	ppbv#	91
115]	1,2-Dichlorobenzene(sim)	11.051	146	329614	8.855	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_32.D
Acq On : 18 Apr 2017 3:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb;air4u
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 08:50:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

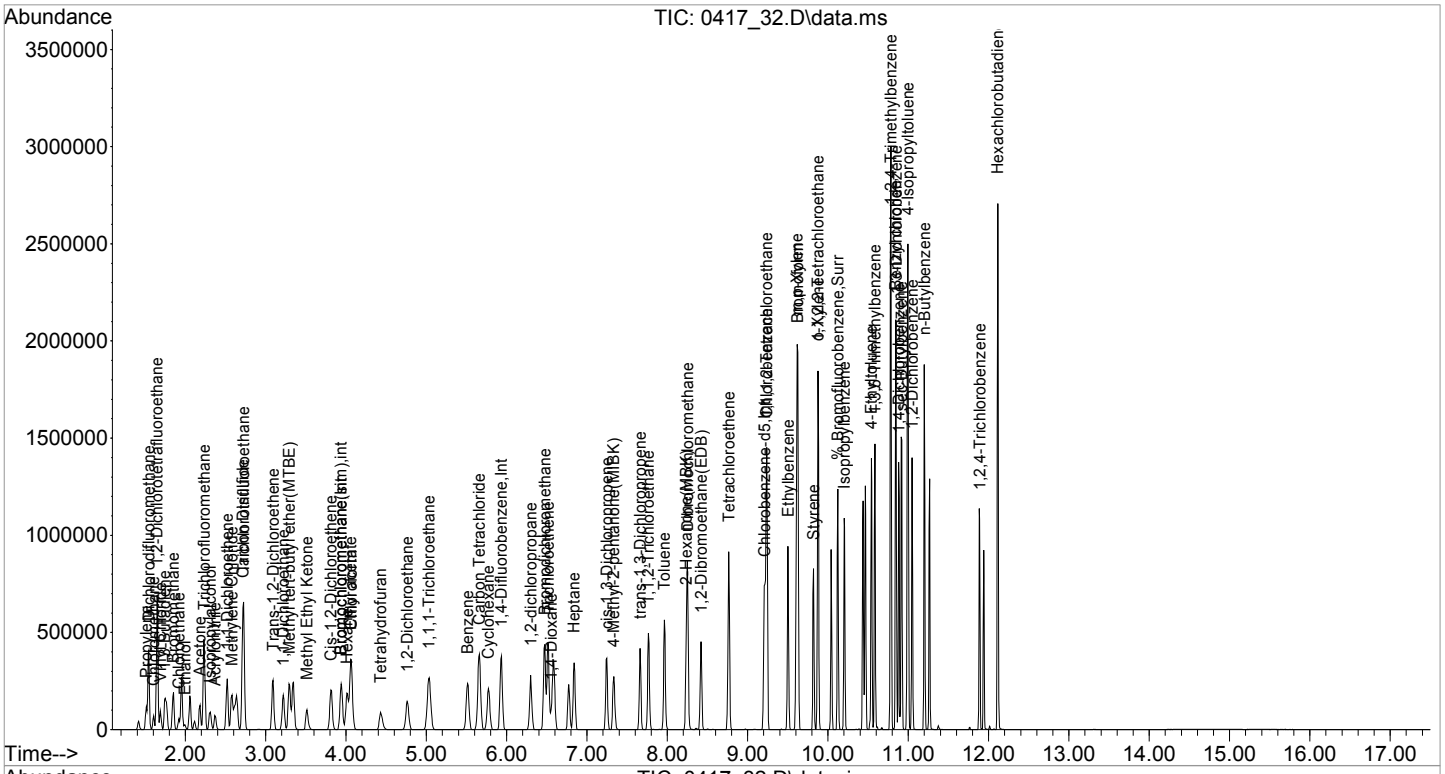
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.200	91	546402	11.232	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.887	180	213592	13.716	ppbv	95
119] Hexachlorobutadiene(sim)	12.116	225	307376	8.922	ppbv	98

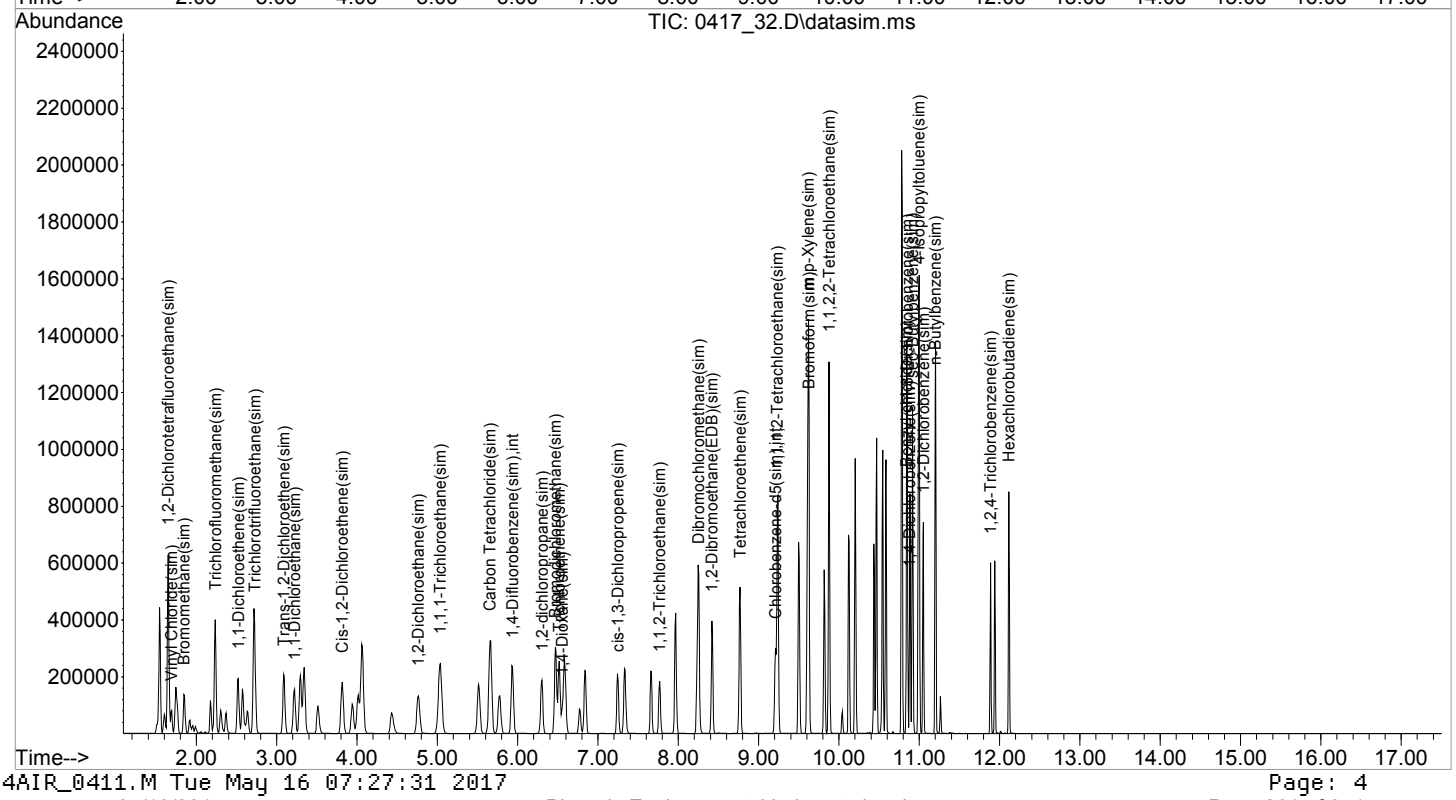
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_32.D
Acq On : 18 Apr 2017 3:33 am
Operator : Keith
Client ID : CCAL 10
Lab ID : 10ppb;air4u
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 08:50:12 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: BY03107 LCS

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 LCS

Canister: LCS Lab File ID: 0412_35.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	7.80		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	11.1		0.202	0.202	r
74-87-3	Chloromethane	7.56		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.2		0.143	0.143	r
75-01-4	Vinyl Chloride	8.45		0.098	0.098	r
106-99-0	1,3-Butadiene	8.25		0.452	0.452	r
74-83-9	Bromomethane	8.51		0.258	0.258	r
75-00-3	Chloroethane	7.38		0.379	0.379	r
64-17-5	Ethanol	4.47		0.531	0.531	r
67-64-1	Acetone	9.18		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.9		0.178	0.178	r
67-63-0	Isopropylalcohol	7.41		0.407	0.407	r
107-13-1	Acrylonitrile	7.94		0.461	0.461	r
75-35-4	1,1-Dichloroethene	9.69		0.252	0.252	r
75-09-2	Methylene Chloride	7.95		0.288	0.288	r
75-15-0	Carbon Disulfide	8.69		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	9.68		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.59		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.3		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.84		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	8.16		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	9.00		0.252	0.252	r
110-54-3	Hexane	8.42		0.284	0.284	r
67-66-3	Chloroform	9.61		0.205	0.205	r
141-78-6	Ethyl acetate	9.79		0.278	0.278	r
109-99-9	Tetrahydrofuran	8.76		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.5		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	11.0		0.183	0.183	r
71-43-2	Benzene	8.46		0.313	0.313	r
56-23-5	Carbon Tetrachloride	11.6		0.040	0.040	r
110-82-7	Cyclohexane	10.7		0.291	0.291	r
78-87-5	1,2-dichloropropane	8.58		0.217	0.217	r
75-27-4	Bromodichloromethane	9.78		0.149	0.149	r
79-01-6	Trichloroethene	10.1		0.047	0.047	r
123-91-1	1,4-Dioxane	9.35		0.278	0.278	r
142-82-5	Heptane	9.98		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: BY03107 LCS

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 LCS

Canister: LCS Lab File ID: 0412_35.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	10.0		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	11.2		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.3		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.55		0.183	0.183	r
108-88-3	Toluene	10.4		0.266	0.266	r
124-48-1	Dibromochloromethane	10.7		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	11.4		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.2		0.130	0.130	r
127-18-4	Tetrachloroethene	11.5		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.1		0.146	0.146	r
108-90-7	Chlorobenzene	9.12		0.217	0.217	r
100-41-4	Ethylbenzene	10.2		0.230	0.230	r
179601-23-1	m,p-Xylene	21.4		0.230	0.230	r
75-25-2	Bromoform	10.4		0.097	0.097	r
100-42-5	Styrene	10.6		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	8.70		0.146	0.146	r
95-47-6	o-Xylene	10.4		0.230	0.230	r
98-82-8	Isopropylbenzene	10.3		0.204	0.204	r
622-96-8	4-Ethyltoluene	11.3		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.4		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.4		0.204	0.204	r
100-44-7	Benzyl chloride	10.6		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	11.1		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	11.7		0.166	0.166	r
135-98-8	sec-Butylbenzene	11.4		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.9		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.6		0.166	0.166	r
104-51-8	n-Butylbenzene	11.8		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	14.3		0.135	0.135	r
87-68-3	Hexachlorobutadiene	11.7		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (Not Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_35.D
Acq On : 13 Apr 2017 02:19 pm
Operator : CORTEX\ms
Client ID : BY03107 LCS
Lab ID : BY03107 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:33:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.987	130	126006	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.890	114	355051	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	176655	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.987	130	126006	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	428403	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	190983	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	230446	9.592	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.90%				
Target Compounds							Qvalue
2) Propylene	3.643	41	102411	7.799	ppbv	#	88
3) Dichlorodifluoromethane	3.716	85	504053	11.119	ppbv	#	95
4) Chloromethane	3.878	50	118677	7.562	ppbv	#	1
5) 1,2-Dichlorotetrafluor...	3.975	85	397924	10.228	ppbv		93
6) Vinyl Chloride	4.081	62	106934	8.451	ppbv		96
7) 1,3-Butadiene	4.211	54	89556	8.254	ppbv	#	38
8) Bromomethane	4.446	94	106049	8.510	ppbv	#	85
9) Chloroethane	4.600	64	42881	7.382	ppbv	#	57
11) Ethanol	4.722	45	38066m	4.473	ppbv		
12) Acetone	5.087	43	358591	9.183	ppbv	#	69
13) Trichlorofluoromethane	5.208	101	582287	10.867	ppbv		98
14) Isopropylalcohol	5.281	45	285097	7.414	ppbv	#	79
15) Acrylonitrile	5.435	53	96492	7.936	ppbv	#	85
16) 1,1-Dichloroethene	5.673	61	264900	9.692	ppbv	#	82
17) Methylene Chloride	5.756	49	221073	7.947	ppbv	#	69
20) Carbon Disulfide	5.965	76	246392	8.685	ppbv		99
21) Trichlorotrifluoroethane	5.923	101	287740	9.677	ppbv	#	85
22) Trans-1,2-Dichloroethene	6.339	61	204131	9.594	ppbv		88
23) 1,1-Dichloroethane	6.454	63	234718	10.341	ppbv		94
24) Methyl tert-butyl ethe...	6.480	73	256669	9.844	ppbv	#	84
25) Methyl Ethyl Ketone	6.663	43	221688	8.156	ppbv	#	86
26) Cis-1,2-Dichloroethene	6.894	61	133904	8.999	ppbv		92
27) Hexane	6.987	57	92369	8.420	ppbv	#	20
28) Chloroform	7.049	83	254419	9.608	ppbv	#	85
29) Ethyl acetate	6.987	61	24762	9.786	ppbv	#	1
30) Tetrahydrofuran	7.243	42	93910	8.762	ppbv	#	78
31) 1,2-Dichloroethane	7.406	62	234514	10.473	ppbv		99
32) 1,1,1-Trichloroethane	7.530	97	342449	10.984	ppbv	#	92
33) Benzene	7.740	78	198143	8.464	ppbv	#	79
34) Carbon Tetrachloride	7.815	117	453859	11.589	ppbv		98
35) Cyclohexane	7.873	41	104510	10.693	ppbv	#	48
37) 1,2-dichloropropane	8.113	63	68375	8.582	ppbv	#	1
38) Bromodichloromethane	8.205	83	288680	9.778	ppbv		98
39) Trichloroethene	8.221	130	152370	10.082	ppbv		95
41) 1,4-Dioxane	8.205	88	47863	9.353	ppbv	#	85
43) Heptane	8.329	43	131176	9.975	ppbv	#	75
44) cis-1,3-Dichloropropene	8.594	75	138925	10.018	ppbv		94
45) 4-Methyl-2-pentanone(M...	8.594	43	237236	11.241	ppbv	#	84
46) trans-1,3-Dichloropropene	8.830	75	146177	10.344	ppbv		98
47) 1,1,2-Trichloroethane	8.922	97	106064	9.552	ppbv		97
48) Toluene	9.055	91	257728	10.381	ppbv	#	97
49) Dibromochloromethane	9.266	129	384932	10.702	ppbv		100

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_35.D
Acq On : 13 Apr 2017 02:19 pm
Operator : CORTEX\ms
Client ID : BY03107 LCS
Lab ID : BY03107 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:33:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone(MBK)	9.147	43	225123	11.431	ppbv#	75
51) 1,2-Dibromoethane(EDB)	9.393	107	216850	10.196	ppbv	99
52) Tetrachloroethene	9.611	166	231115	11.491	ppbv	98
54) 1,1,1,2-Tetrachloroethane	9.934	131	217342	10.134	ppbv	98
55) Chlorobenzene	9.949	112	259404	9.117	ppbv	93
56) Ethylbenzene	10.127	91	372855	10.173	ppbv	97
57) m,p-Xylene	10.216	91	639365	21.375	ppbv	98
58) Bromoform	10.282	173	421148	10.376	ppbv	99
59) Styrene	10.408	104	212422	10.580	ppbv#	87
60) 1,1,2,2-Tetrachloroethane	10.460	83	222410	8.700	ppbv#	92
61) o-Xylene	10.467	91	320525	10.400	ppbv	98
64) Isopropylbenzene	10.778	105	423293	10.318	ppbv	96
66) 4-Ethyltoluene	11.141	105	477304	11.296	ppbv	99
67) 1,3,5-Trimethylbenzene	11.178	105	393461	10.392	ppbv	98
68) 1,2,4-Trimethylbenzene	11.423	105	436140	11.376	ppbv#	96
70) Benzyl chloride	11.519	91	355019	10.573	ppbv#	96
71) 1,3-Dichlorobenzene	11.534	146	360982	11.105	ppbv	99
72) 1,4-Dichlorobenzene	11.571	146	355119	11.662	ppbv	98
73) sec-Butylbenzene	11.586	105	556699	11.383	ppbv#	93
74) 4-Isopropyltoluene	11.682	119	559450	11.858	ppbv	93
75) 1,2-Dichlorobenzene	11.786	146	336970	10.556	ppbv	97
76) n-Butylbenzene	11.942	91	450474	11.818	ppbv	94
77) 1,2,4-Trichlorobenzene	12.913	180	278987	14.272	ppbv	96
79) Hexachlorobutadiene	13.224	225	362070	11.704	ppbv	99
81] Dichlorodifluoromethan...	3.719	85	621925	11.002	ppbv	95
82] 1,2-Dichlorotetrafluor...	3.975	85	397941	9.723	ppbv	93
83] Vinyl Chloride(sim)	4.084	62	126239	7.947	ppbv	97
84] Bromomethane(sim)	4.446	94	106049	7.140	ppbv#	85
85] Trichlorofluoromethane...	5.211	101	731424	10.467	ppbv	100
86] 1,2-Dichloroethane(sim)	7.406	62	234514	10.297	ppbv	99
87] 1,1,1-Trichloroethane(...	7.525	97	428522	10.706	ppbv#	95
88] Carbon Tetrachloride(sim)	7.815	117	453859	11.449	ppbv	98
89] 1,1-Dichloroethene(sim)	5.676	61	315546	9.580	ppbv#	84
90] Carbon Disulfide(sim)	5.965	76	246392	8.268	ppbv	99
91] Trichlorotrifluoroetha...	5.926	101	367056	9.486	ppbv	99
92] Trans-1,2-Dichloroethe...	6.339	61	204131	8.839	ppbv	88
93] 1,1-Dichloroethane(sim)	6.457	63	277038	9.620	ppbv#	95
94] Cis-1,2-Dichloroethene...	6.894	61	133904	9.330	ppbv	92
95] Chloroform(sim)	7.044	83	321643	9.472	ppbv#	87
96] Benzene(sim)	7.740	78	198143	7.917	ppbv#	79
98] 1,2-dichloropropane(sim)	8.113	63	68504	8.023	ppbv#	1
99] Bromodichloromethane(sim)	8.208	85	234401	9.964	ppbv#	41
100] Trichloroethene(sim)	8.221	130	152193	9.762	ppbv	97
101] 1,4-Dioxane(sim)	8.208	88	54685	10.268	ppbv#	86
102] cis-1,3-Dichloropropen...	8.594	75	138925	11.222	ppbv#	94
103] 1,1,2-Trichloroethane(...	8.924	97	138426	9.412	ppbv	94
104] Dibromochloromethane(sim)	9.266	129	385024	10.708	ppbv	100
105] 1,2-Dibromoethane(EDB)...	9.389	107	280291	10.638	ppbv	100
106] Tetrachloroethene(sim)	9.611	166	231115	11.757	ppbv	98
108] Bromoform(sim)	10.282	173	421148	9.035	ppbv	99
109] Chlorobenzene(sim)	9.945	112	315754	7.844	ppbv#	91
110] Ethylbenzene(sim)	10.127	91	372855	9.507	ppbv#	96
111] m,p-Xylene(sim)	10.218	91	707584	20.697	ppbv	97
112] Styrene(sim)	10.408	104	212422	10.626	ppbv#	88
113] 1,1,2,2-Tetrachloroeth...	10.463	83	278607	7.875	ppbv#	96

Quantitation Report (Not Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_35.D
Acq On : 13 Apr 2017 02:19 pm
Operator : CORTEX\ms
Client ID : BY03107 LCS
Lab ID : BY03107 LCS
ALS Vial : 1 Sample Multiplier: 1

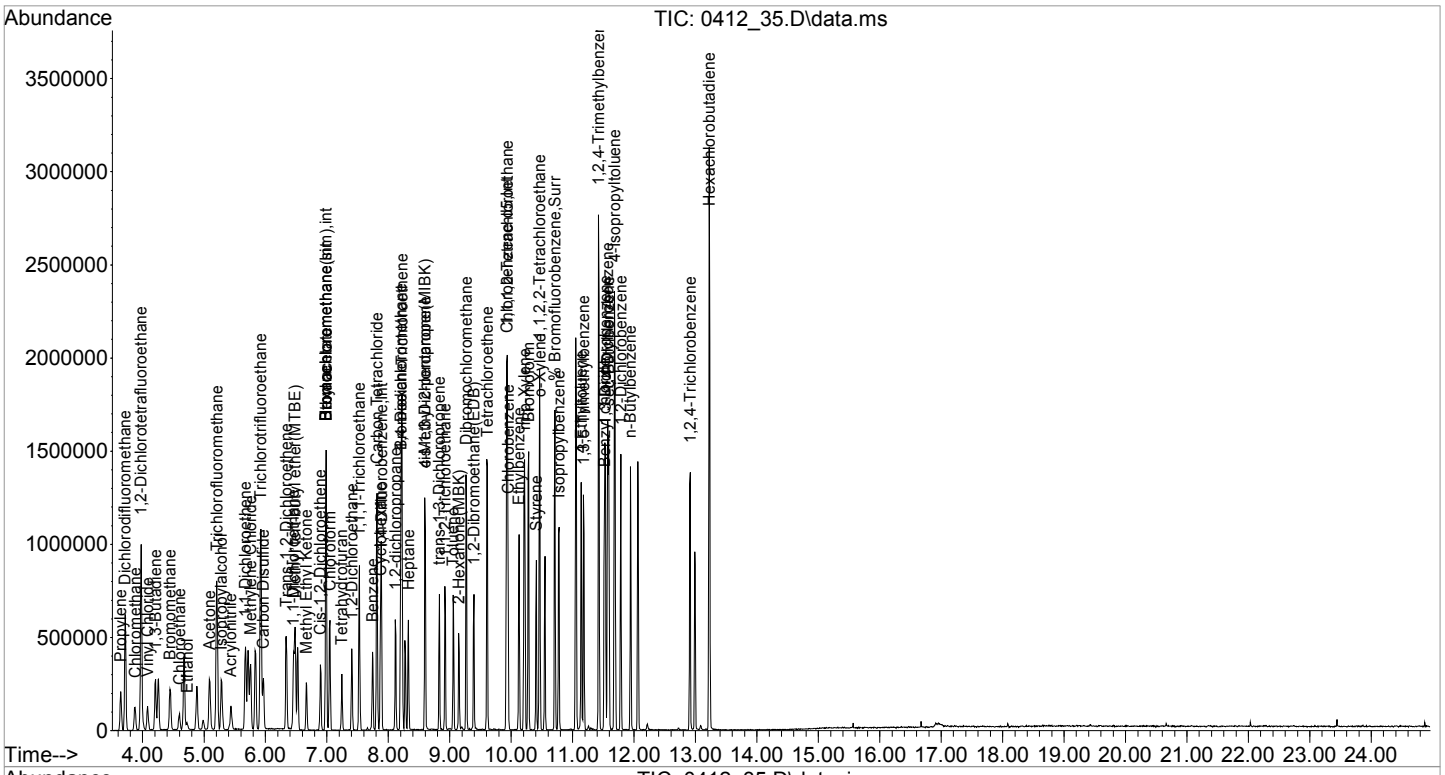
Quant Time: Apr 13 15:33:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

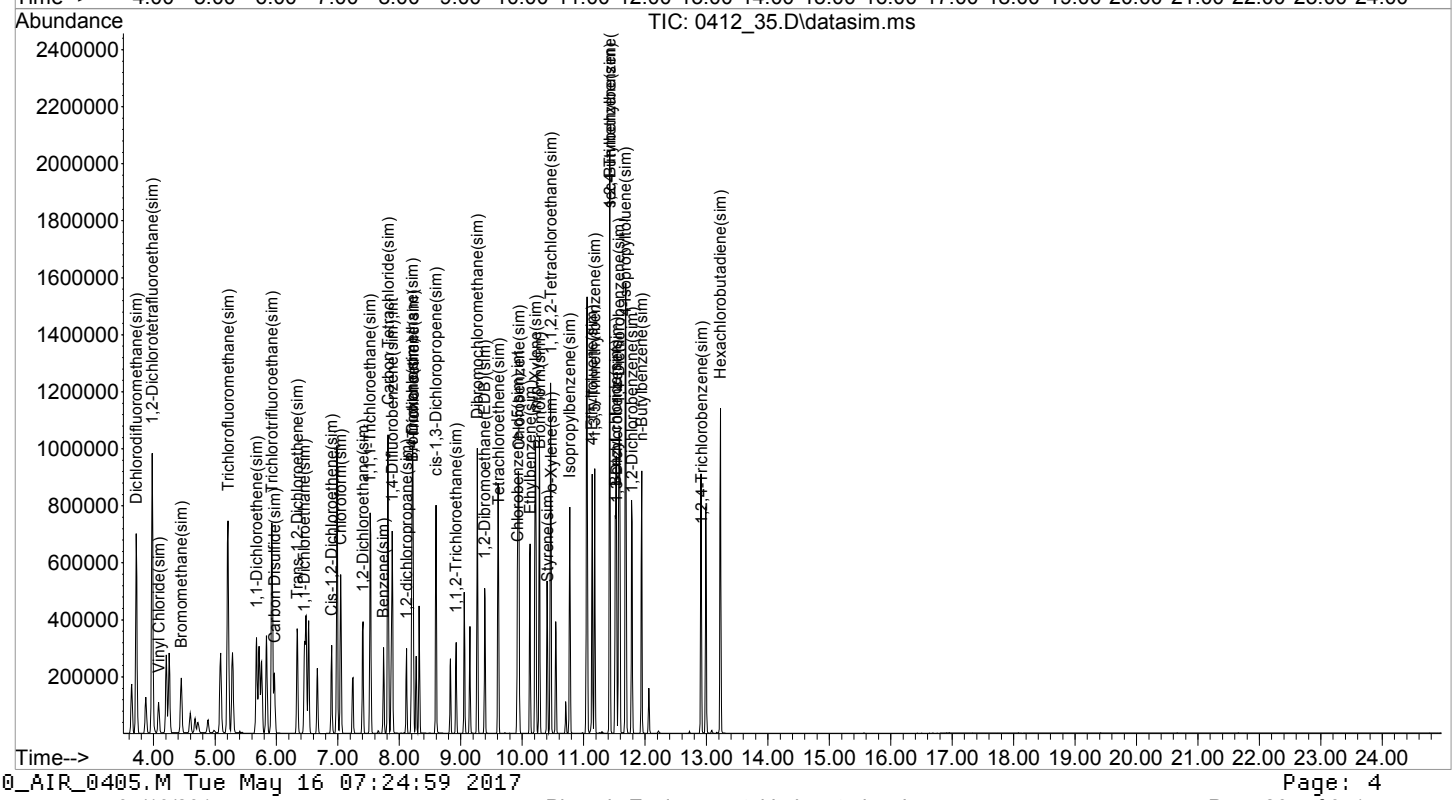
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114] o-Xylene(sim)	10.467	91	320525	10.476	ppbv	98
115] Isopropylbenzene(sim)	10.774	105	469645	9.698	ppbv#	67
117] 4-Ethyltoluene(sim)	11.137	105	503784	11.153	ppbv	98
118] 1,3,5-Trimethylbenzene...	11.178	105	393461	10.129	ppbv	96
119] 1,2,4-Trimethylbenzene...	11.426	105	470430	12.279	ppbv#	93
121] Benzyl chloride(sim)	11.515	91	390947	12.019	ppbv	95
122] 1,3-Dichlorobenzene(sim)	11.534	146	361079	10.659	ppbv	99
123] 1,4-Dichlorobenzene(sim)	11.574	146	463821	12.321	ppbv	97
124] sec-Butylbenzene(sim)	11.423	105	435820	12.788	ppbv	80
125] 4-Isopropyltoluene(sim)	11.678	119	586912	12.683	ppbv#	90
126] 1,2-Dichlorobenzene(sim)	11.786	146	336970	10.113	ppbv	98
127] n-Butylbenzene(sim)	11.945	91	499519	13.105	ppbv#	46
128] 1,2,4-Trichlorobenzene...	12.913	180	278939	16.486	ppbv	97
130] Hexachlorobutadiene(sim)	13.224	225	361958	10.213	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_35.D
Acq On : 13 Apr 2017 02:19 pm
Operator : CORTEX\ms
Client ID : BY03107 LCS
Lab ID : BY03107 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 13 15:33:09 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





AIR ANALYSIS DATA SHEET

CLIENT ID: BY03107 BLANK

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 BL

Canister: BL Lab File ID: 0412_38.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
74-87-3	Chloromethane	0.484	U	0.484	0.484	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.277	U	0.277	0.277	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
75-71-8	Dichlorodifluoromethane(sim)	0.202	U	0.202	0.202	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.257	U	0.257	0.257	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.256	U	0.256	0.256	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

AIR ANALYSIS DATA SHEET

CLIENT ID: BY03107 BLANK

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 BL

Canister: BL Lab File ID: 0412_38.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
78-87-5	1,2-dichloropropane(sim)	0.216	U	0.216	0.216	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_38.D
Acq On : 13 Apr 2017 04:05 pm
Operator : CORTEX\ms
Client ID : BY03107 BLANK
Lab ID : BY03107 BLANK
ALS Vial : 1 Sample Multiplier: 1

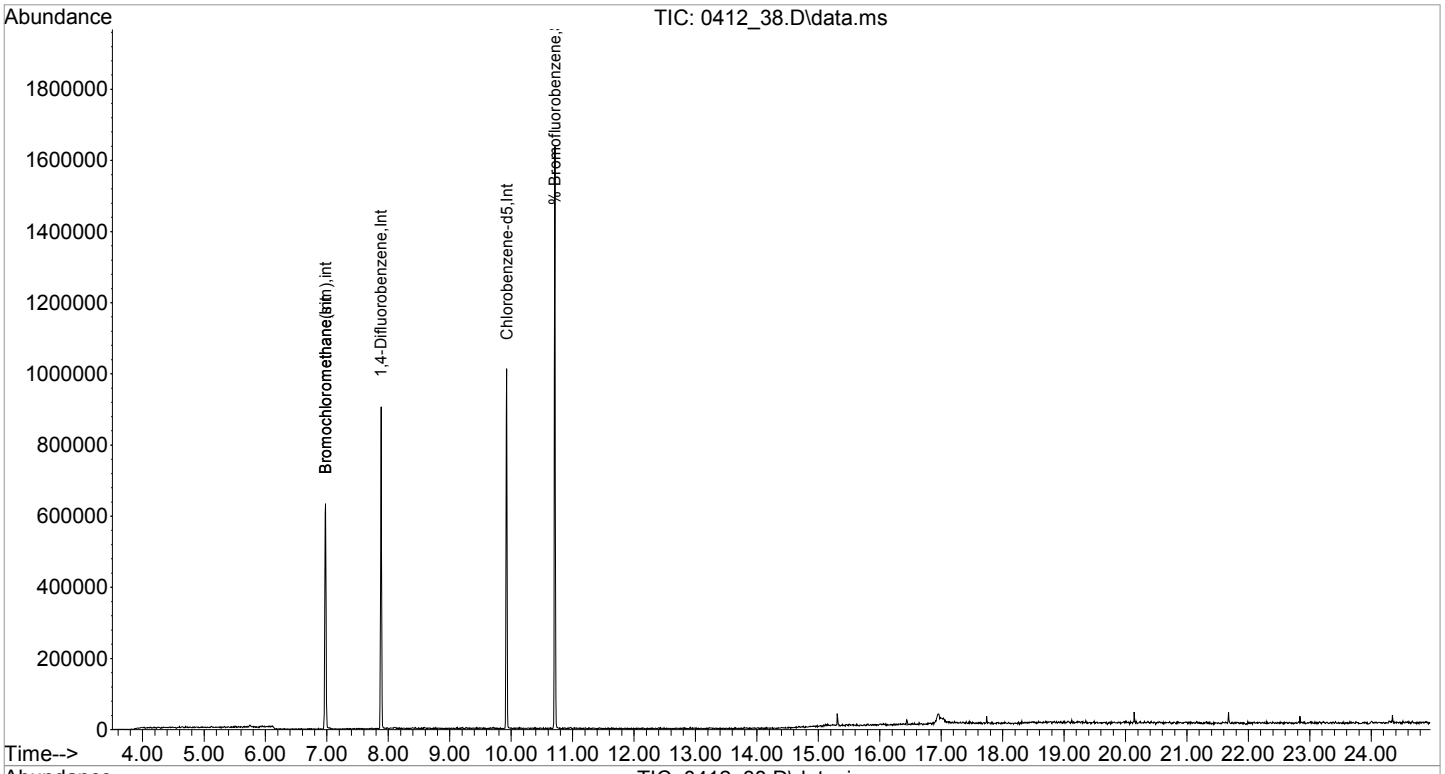
Quant Time: Apr 14 13:34:45 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

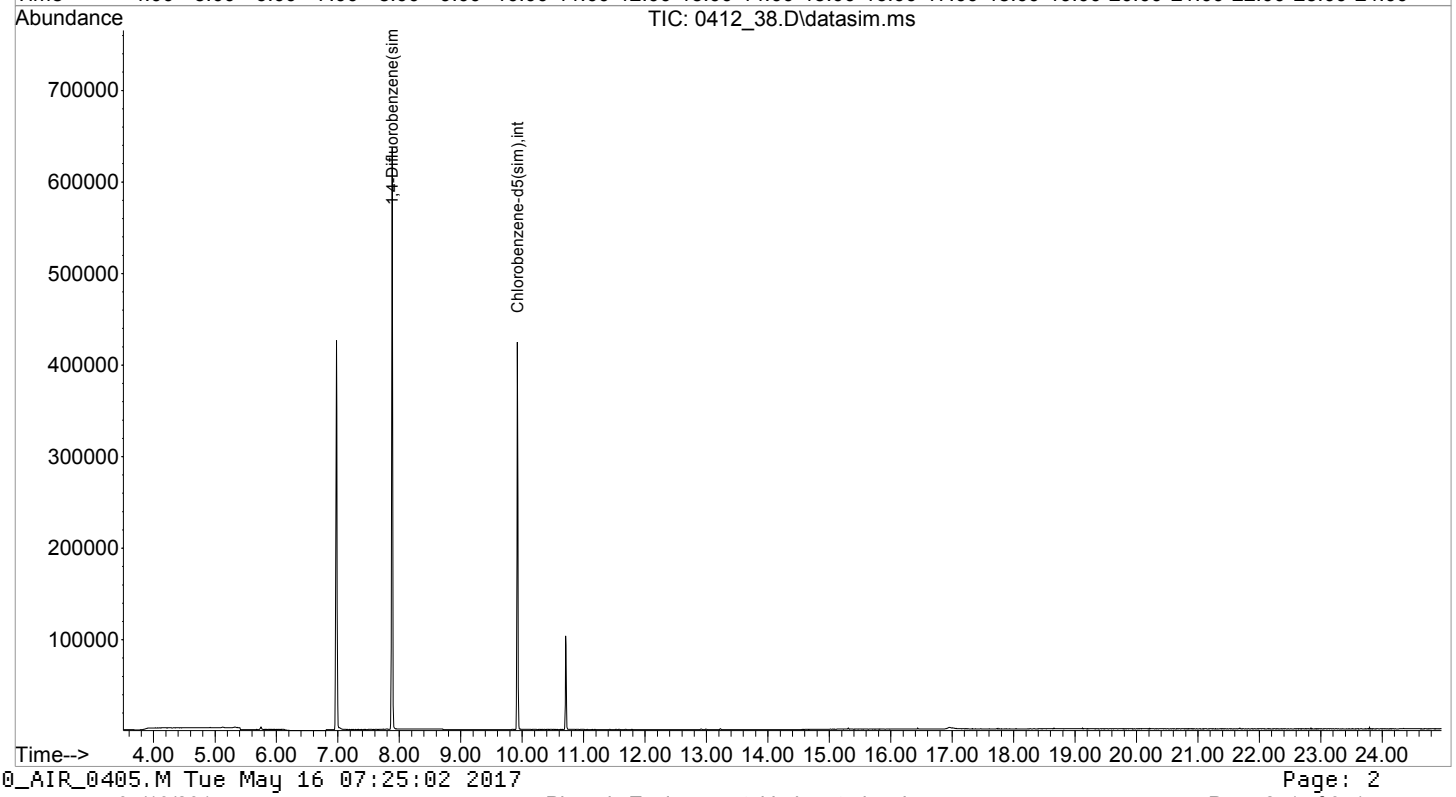
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	131929	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	350857	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	138439	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	131929	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	426141	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	145597	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	207047	10.997	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_38.D
Acq On : 13 Apr 2017 04:05 pm
Operator : CORTEX\ms
Client ID : BY03107 BLANK
Lab ID : BY03107 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 13:34:45 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration





AIR ANALYSIS DATA SHEET

CLIENT ID: OA-1 DUP

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 DUP

Canister: 21333 Lab File ID: 0412_43.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.40		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.520		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	190	ES	0.531	0.531	r
67-64-1	Acetone	13.0	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.270		0.178	0.178	r
67-63-0	Isopropylalcohol	2.40	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	2.30	S	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.690		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	1.60		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.330		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.360		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.80		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.300		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene	0.790		0.230	0.230	r
95-47-6	o-Xylene	0.280		0.230	0.230	r
95-63-6	1,2,4-Trimethylbenzene	0.270		0.204	0.204	r
135-98-8	sec-Butylbenzene	0.182	U	0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.110		0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: OA-1 DUP

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY03107 DUP

Canister: 21333 Lab File ID: 0412_43.D

Instrument: CHEM20 Column: zb-1ms Date Received: 04/12/17

Purge Volume 200 (cc) Date Analyzed: 04/13/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_43.D
Acq On : 13 Apr 2017 08:35 pm
Operator : CORTEX\ms
Client ID : OA-1 DUP
Lab ID : BY03107 DUP
ALS Vial : 1 Sample Multiplier: 1

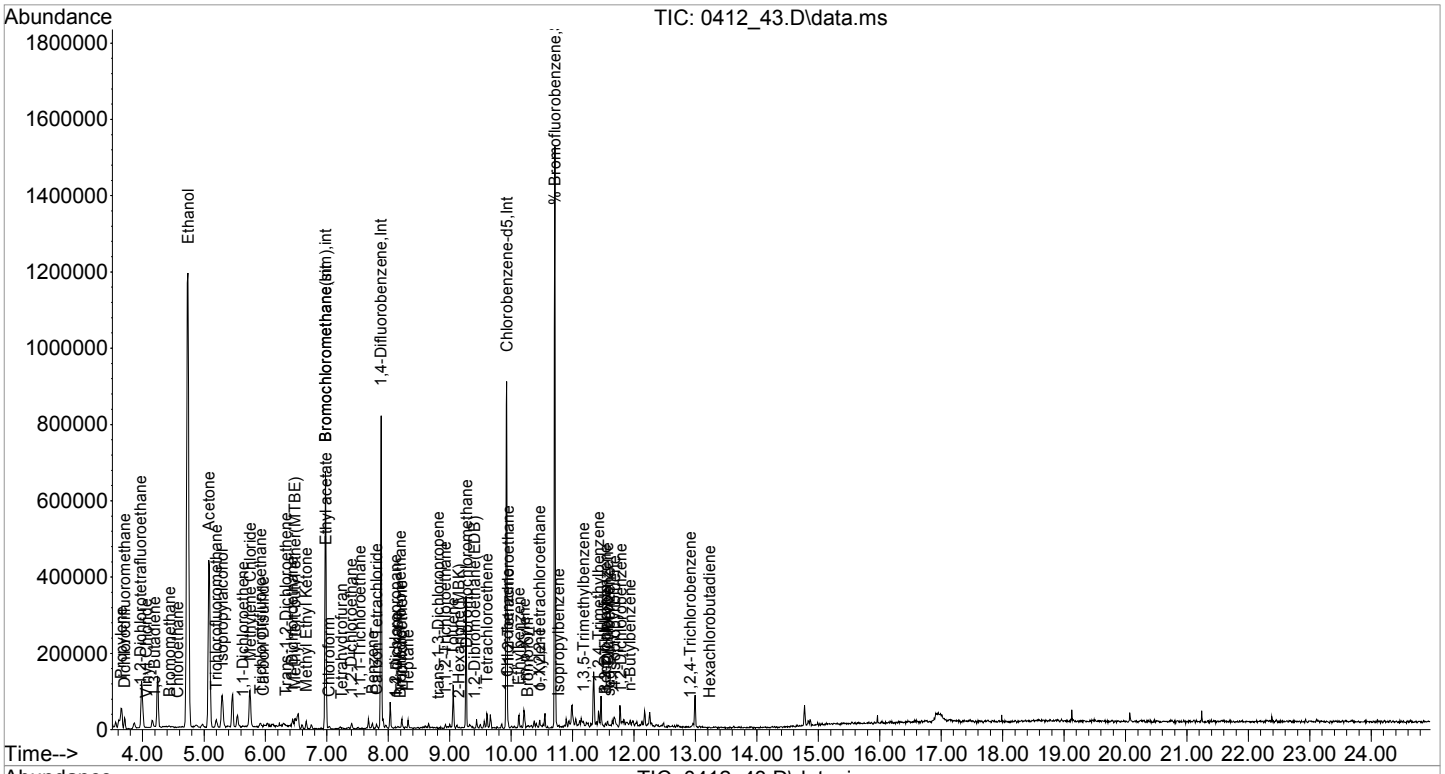
Quant Time: Apr 14 14:15:29 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration

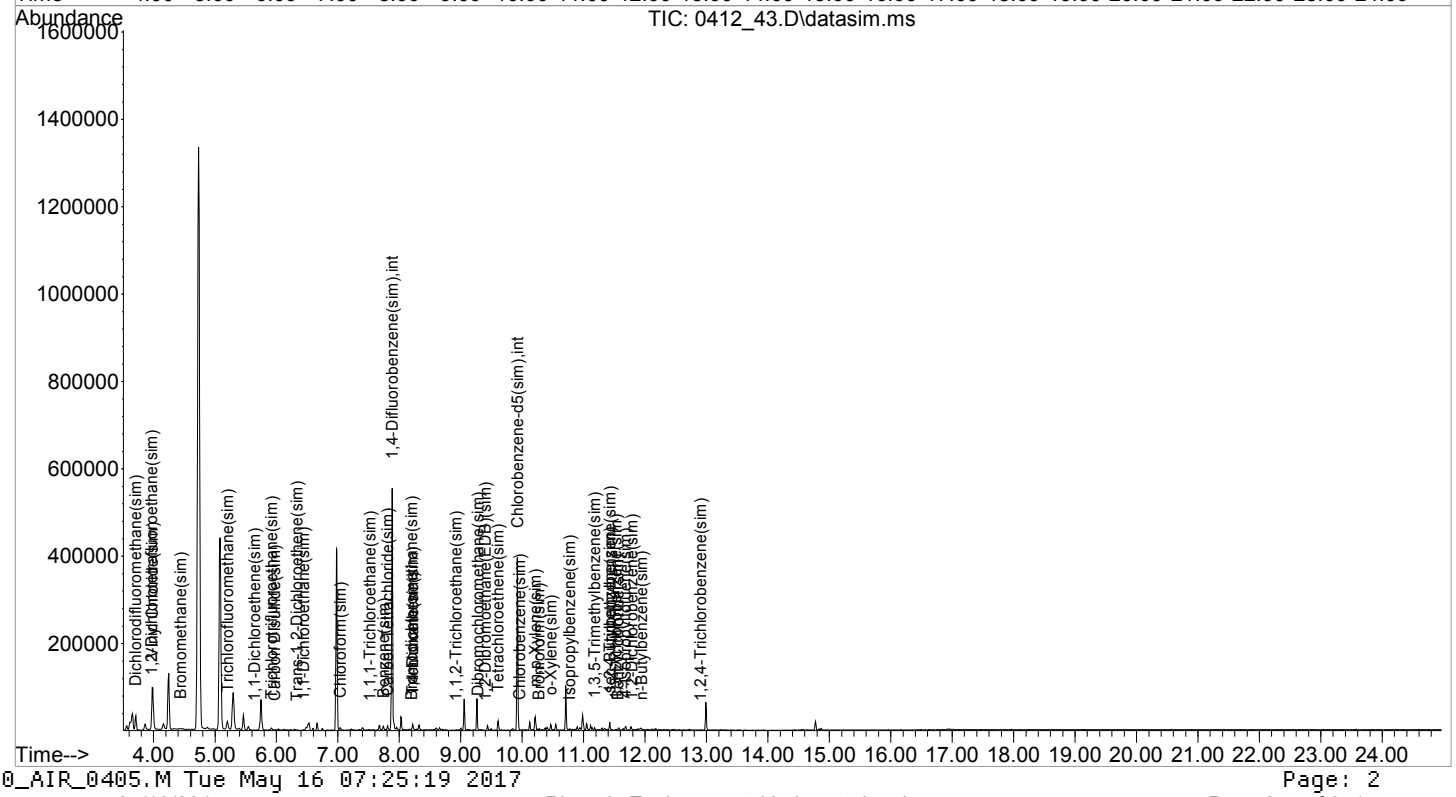
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	115779	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	316602	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	124809	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	115779	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	375960	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	135181	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	198653	11.703	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
2) Propylene	3.651	41	17471	1.448	ppbv	#	47
3) Dichlorodifluoromethane	3.707	85	21603	0.519	ppbv	#	90
11) Ethanol	4.737	45	1519253	194.280	ppbv		93
12) Acetone	5.078	43	452321	12.607	ppbv	#	68
13) Trichlorofluoromethane	5.200	101	13252	0.269	ppbv	#	91
14) Isopropylalcohol	5.297	45	84368	2.388	ppbv	#	72
17) Methylene Chloride	5.750	49	58497	2.289	ppbv	#	68
25) Methyl Ethyl Ketone	6.662	43	17302	0.693	ppbv	#	84
29) Ethyl acetate	6.987	61	3823	1.644	ppbv	#	1
33) Benzene	7.740	78	7027	0.327	ppbv	#	79
34) Carbon Tetrachloride	7.806	117	3976	0.110	ppbv		90
43) Heptane	8.320	43	4249	0.362	ppbv	#	76
48) Toluene	9.055	91	40130	1.813	ppbv		93
52) Tetrachloroethene	9.604	166	5433	0.303	ppbv		88
56) Ethylbenzene	10.126	91	6909	0.267	ppbv		96
57) m,p-Xylene	10.208	91	16612	0.786	ppbv		97
61) o-Xylene	10.460	91	5991	0.275	ppbv		97
68) 1,2,4-Trimethylbenzene	11.422	105	7344	0.271	ppbv		92
81] Dichlorodifluoromethan...	3.710	85	27473	0.529	ppbv		95
85] Trichlorofluoromethane...	5.203	101	17250	0.269	ppbv		99
88] Carbon Tetrachloride(sim)	7.806	117	3976m	0.109	ppbv	#	
96] Benzene(sim)	7.740	78	7027	0.306	ppbv	#	79
106] Tetrachloroethene(sim)	9.604	166	5327	0.309	ppbv		87
111] m,p-Xylene(sim)	10.211	91	18094	0.748	ppbv		98
114] o-Xylene(sim)	10.460	91	5991	0.277	ppbv		94
119] 1,2,4-Trimethylbenzene...	11.425	105	8444	0.311	ppbv	#	86
124] sec-Butylbenzene(sim)	11.422	105	7344	0.304	ppbv		73

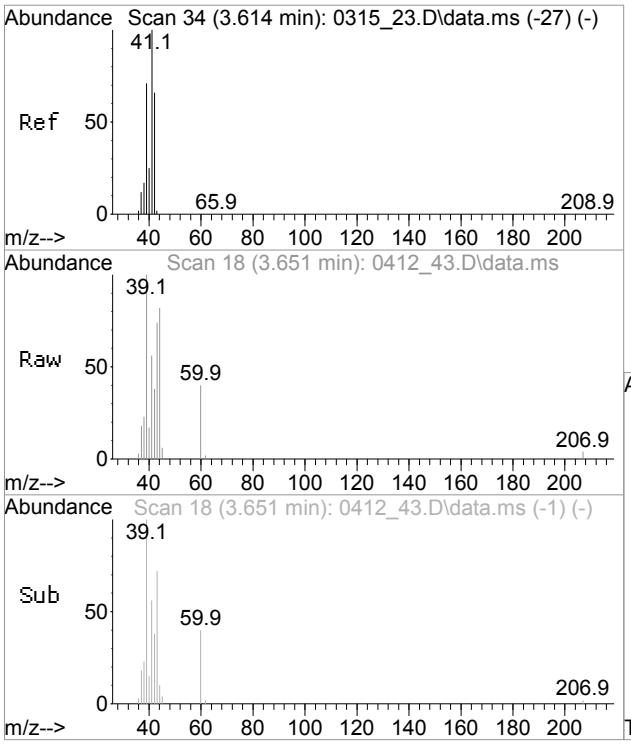
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\04APR\12\
Data File : 0412_43.D
Acq On : 13 Apr 2017 08:35 pm
Operator : CORTEX\ms
Client ID : OA-1 DUP
Lab ID : BY03107 DUP
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 14:15:29 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0405.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 06 08:58:59 2017
Response via : Initial Calibration



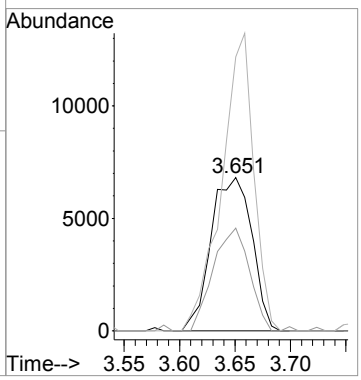


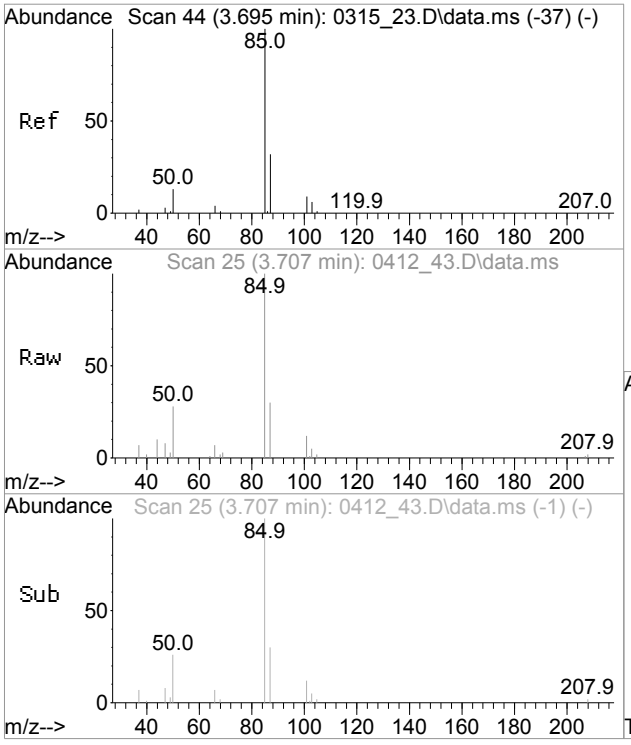


#2
Propylene
Concen: 1.45 ppbv
RT: 3.651 min Scan# 18
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 41 Resp: 17471

Ion	Ratio	Lower	Upper
41	100		
42	59.4	52.7	79.1
39	152.1	59.1	88.7#

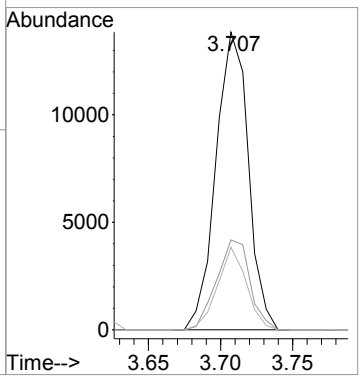


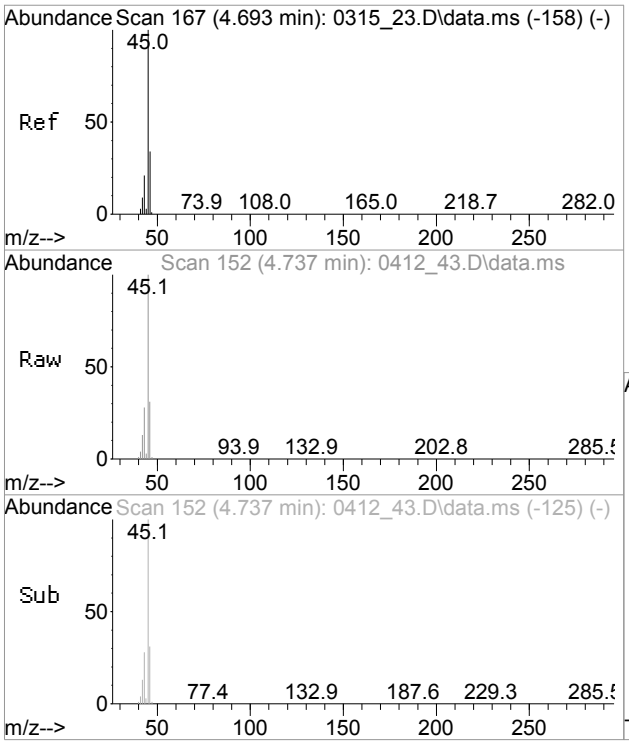


#3
Dichlorodifluoromethane
Concen: 0.52 ppbv
RT: 3.707 min Scan# 25
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 85 Resp: 21603

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.1	39.1
50	24.8	10.5	15.7#

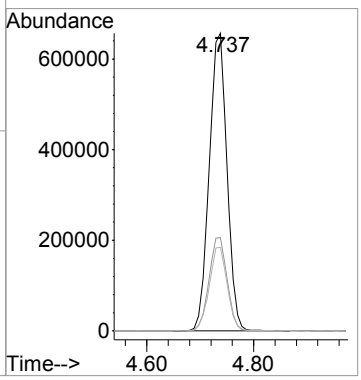


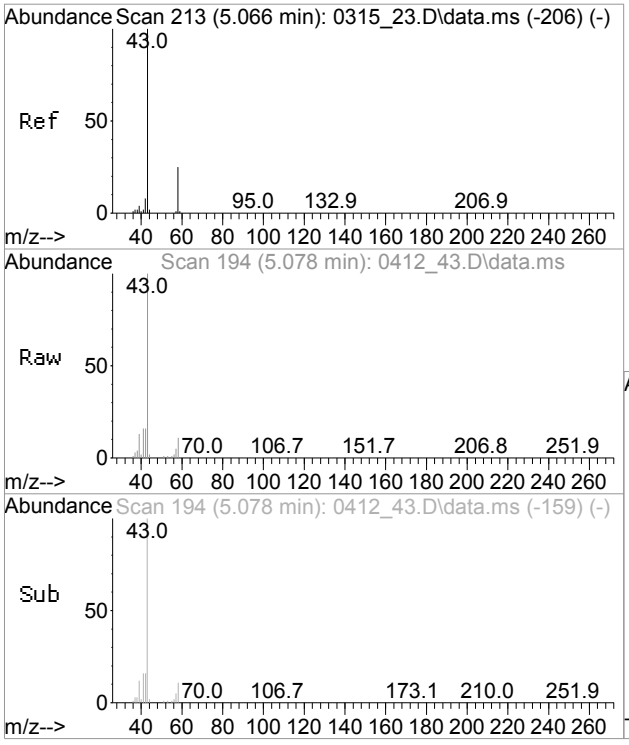


#11
Ethanol
Concen: 194.28 ppbv
RT: 4.737 min Scan# 152
Delta R.T. 0.016 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 45 Resp: 1519253

Ion	Ratio	Lower	Upper
45	100		
46	32.0	28.5	42.7
43	28.4	19.7	29.5

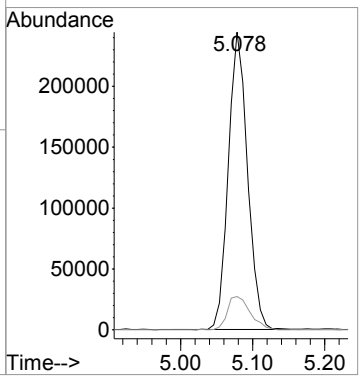


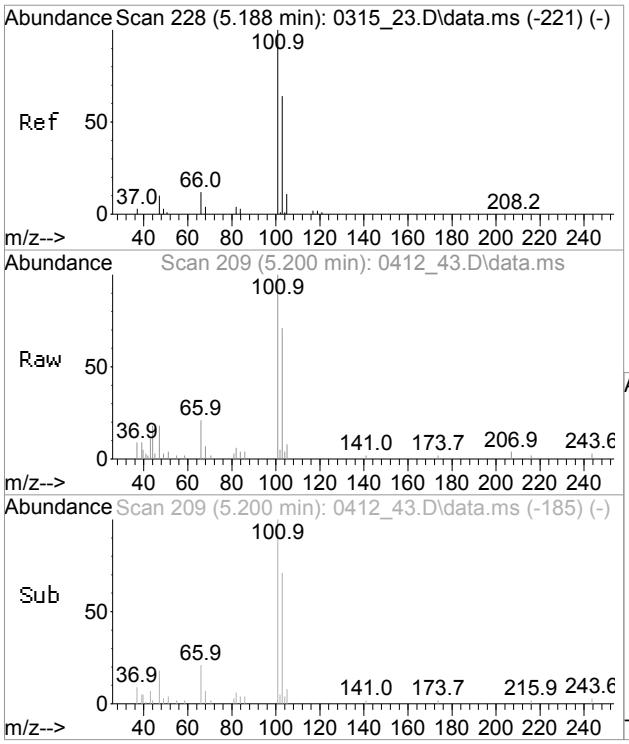


#12
Acetone
Concen: 12.61 ppbv
RT: 5.078 min Scan# 194
Delta R.T. -0.016 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 43 Resp: 452321

Ion	Ratio	Lower	Upper
43	100		
58	13.3	24.8	37.2#

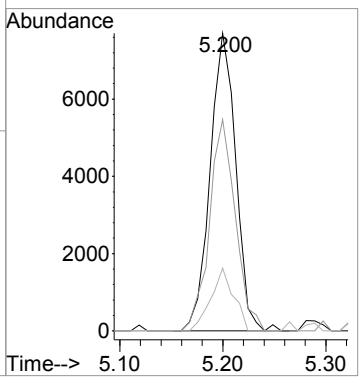


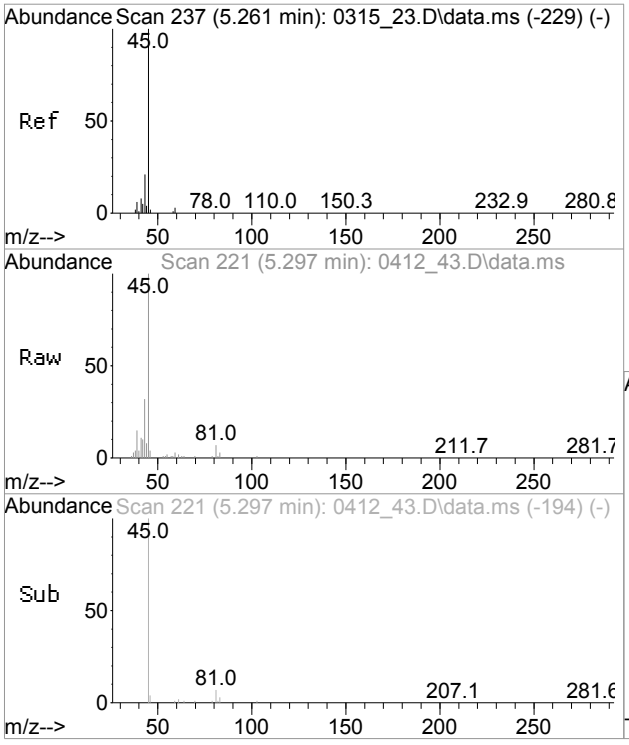


#13
Trichlorofluoromethane
Concen: 0.27 ppbv
RT: 5.200 min Scan# 209
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:101 Resp: 13252

Ion	Ratio	Lower	Upper
101	100		
103	71.9	51.8	77.8
66	18.7	11.1	16.7#

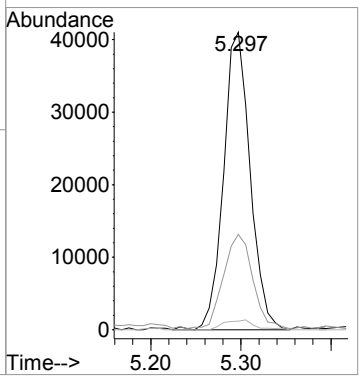


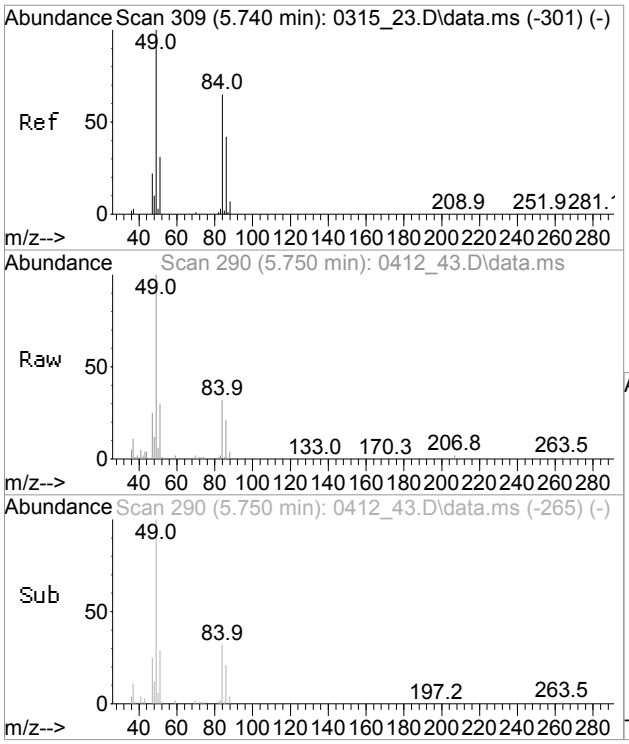


#14
Isopropylalcohol
Concen: 2.39 ppbv
RT: 5.297 min Scan# 221
Delta R.T. 0.016 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 45 Resp: 84368

Ion	Ratio	Lower	Upper
45	100		
43	34.5	15.4	23.0#
59	3.8	3.0	4.4

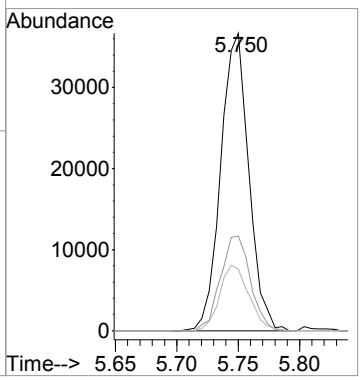


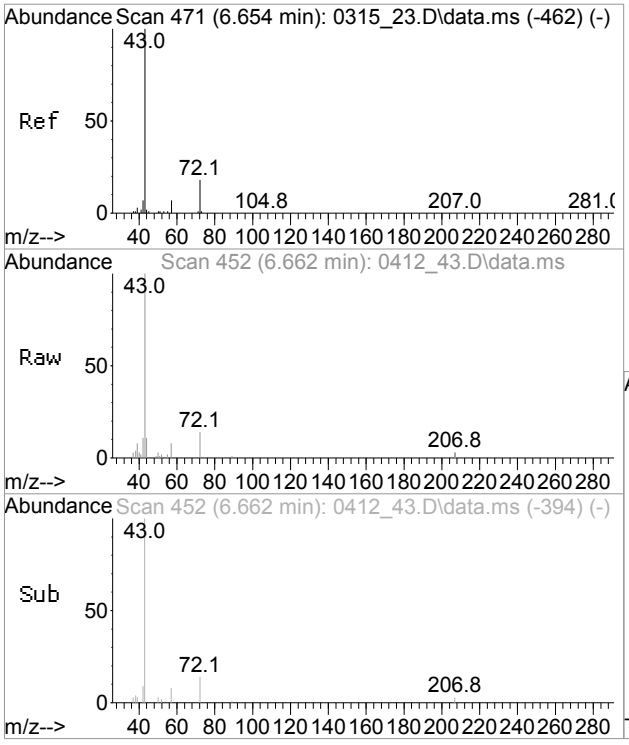


#17
Methylene Chloride
Concen: 2.29 ppbv
RT: 5.750 min Scan# 290
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 49 Resp: 58497

Ion	Ratio	Lower	Upper
49	100		
84	33.9	49.2	73.8#
86	23.1	31.5	47.3#

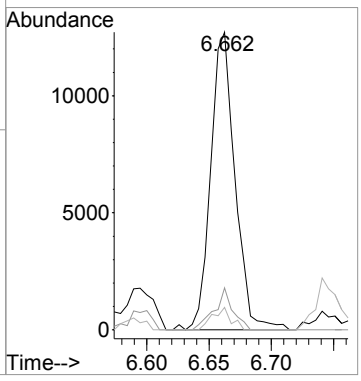


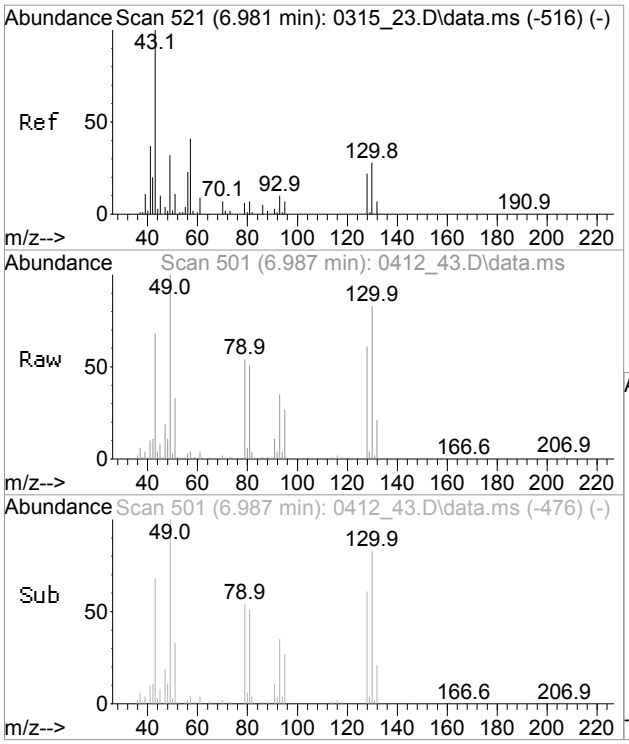


#25
Methyl Ethyl Ketone
Concen: 0.69 ppbv
RT: 6.662 min Scan# 452
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 43 Resp: 17302

Ion	Ratio	Lower	Upper
43	100		
72	10.7	15.9	23.9#
57	5.7	5.6	8.4

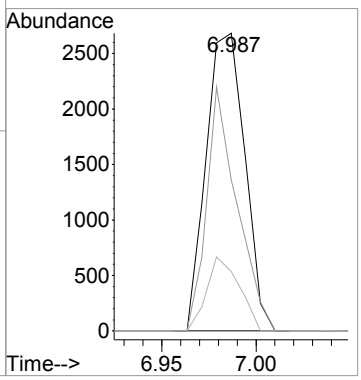


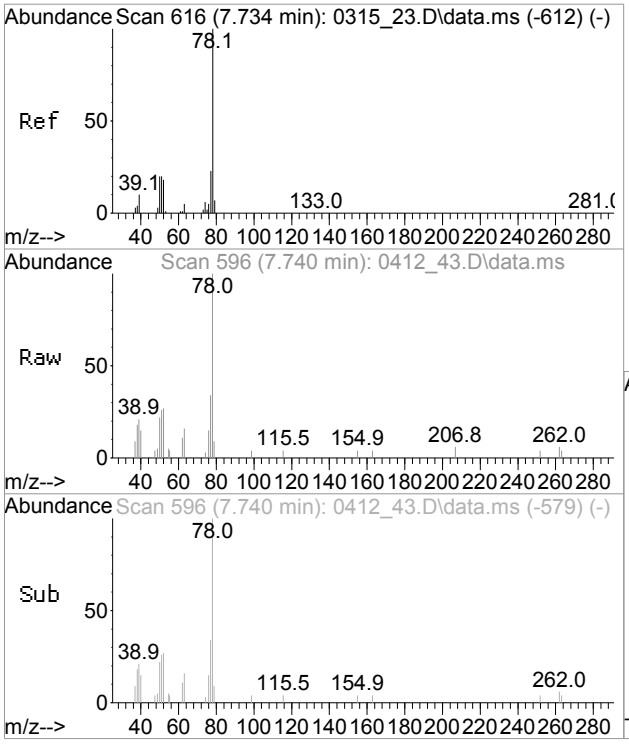


#29
Ethyl acetate
Concen: 1.64 ppbv
RT: 6.987 min Scan# 501
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 61 Resp: 3823

Ion	Ratio	Lower	Upper
61	100		
70	64.4	8.3	12.5#
88	20.9	5.8	8.6#

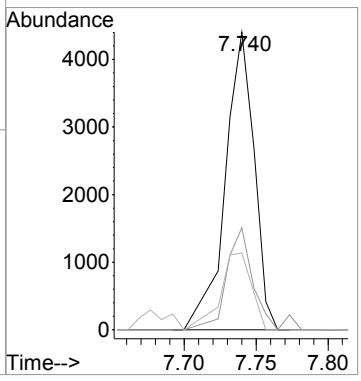


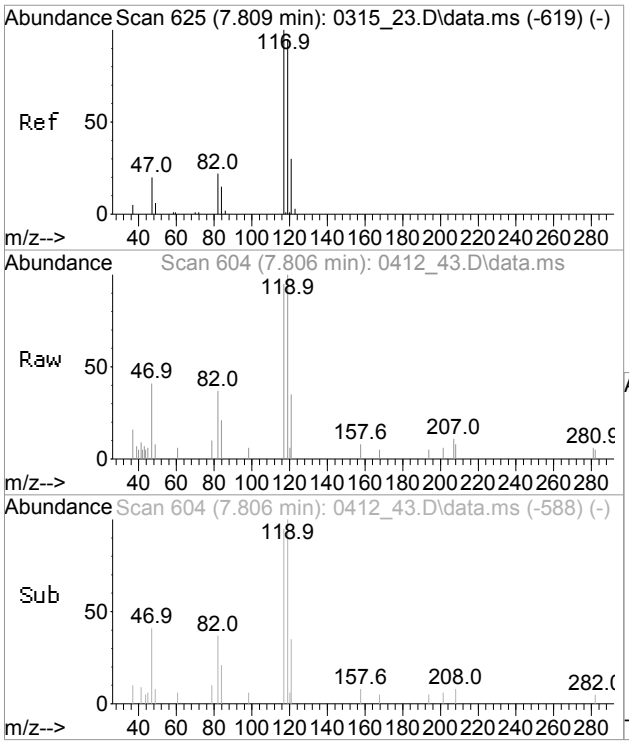


#33
Benzene
Concen: 0.33 ppbv
RT: 7.740 min Scan# 596
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 78 Resp: 7027

Ion	Ratio	Lower	Upper
78	100		
77	32.2	18.6	27.8#
51	29.1	14.9	22.3#

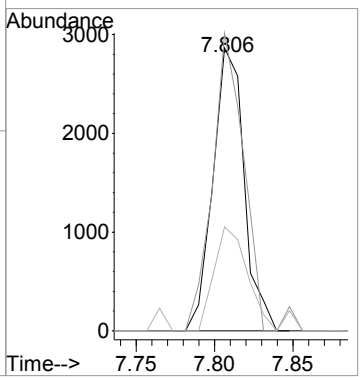


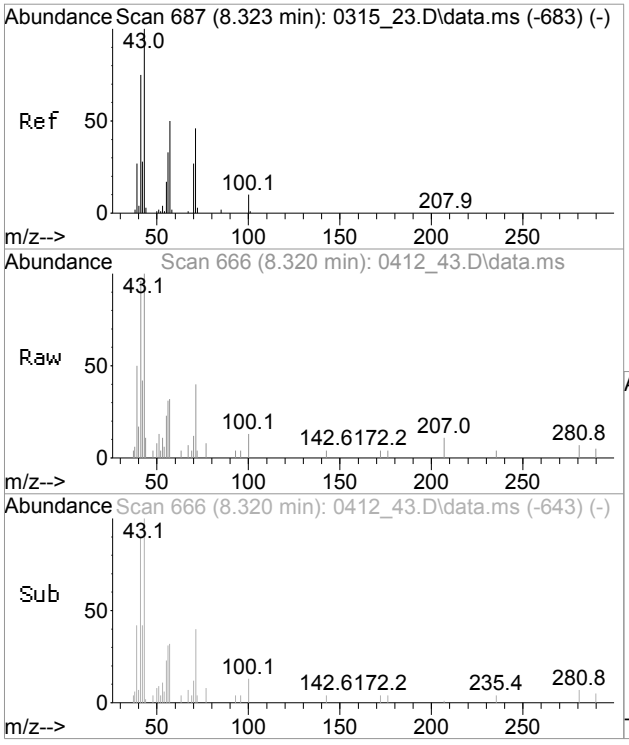


#34
Carbon Tetrachloride
Concen: Below Cal
RT: 7.806 min Scan# 604
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:117 Resp: 3976

Ion	Ratio	Lower	Upper
117	100		
119	104.0	75.9	115.9
121	39.2	10.8	50.8

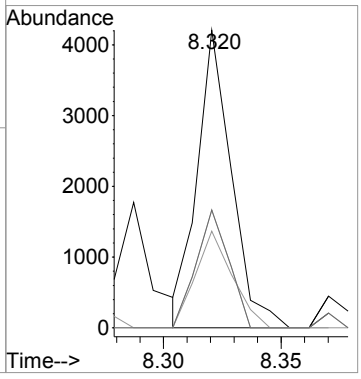


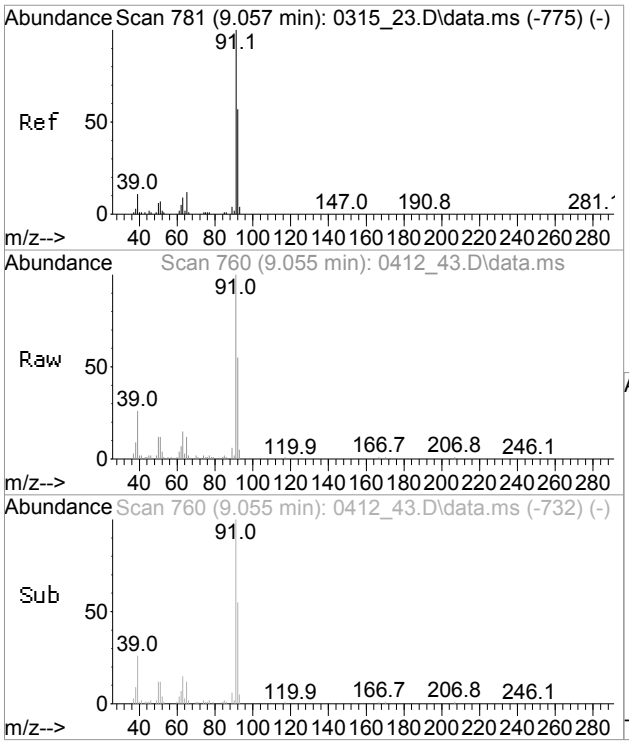


#43
Heptane
Concen: 0.36 ppbv
RT: 8.320 min Scan# 666
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 43 Resp: 4249

Ion	Ratio	Lower	Upper
43	100		
57	35.2	43.0	64.4#
71	38.0	43.6	65.4#
71	38.0	43.6	65.4#

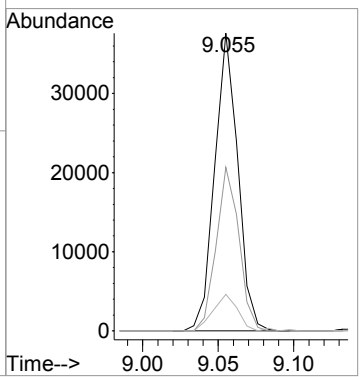


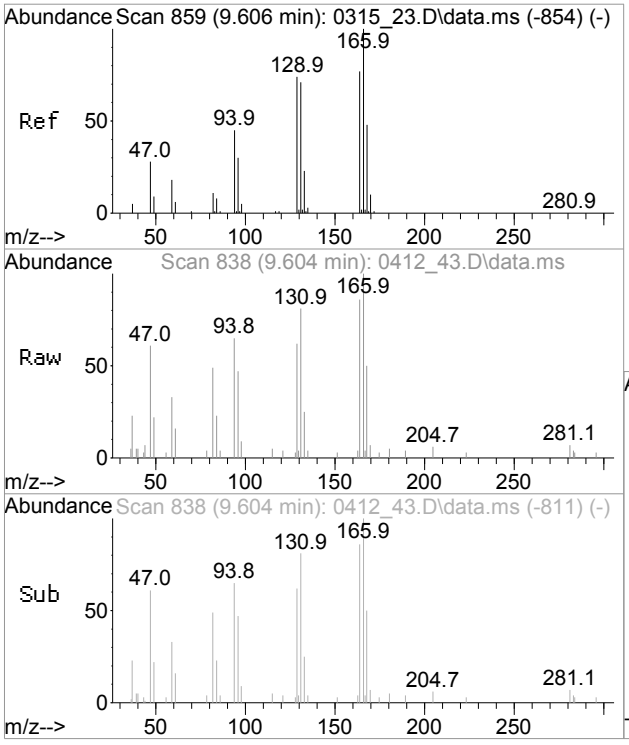


#48
Toluene
Concen: 1.81 ppbv
RT: 9.055 min Scan# 760
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 40130

Ion	Ratio	Lower	Upper
91	100		
92	53.9	47.7	71.5
65	13.4	9.5	14.3

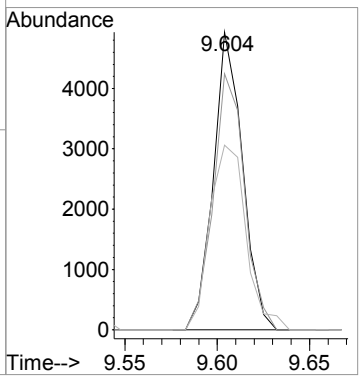


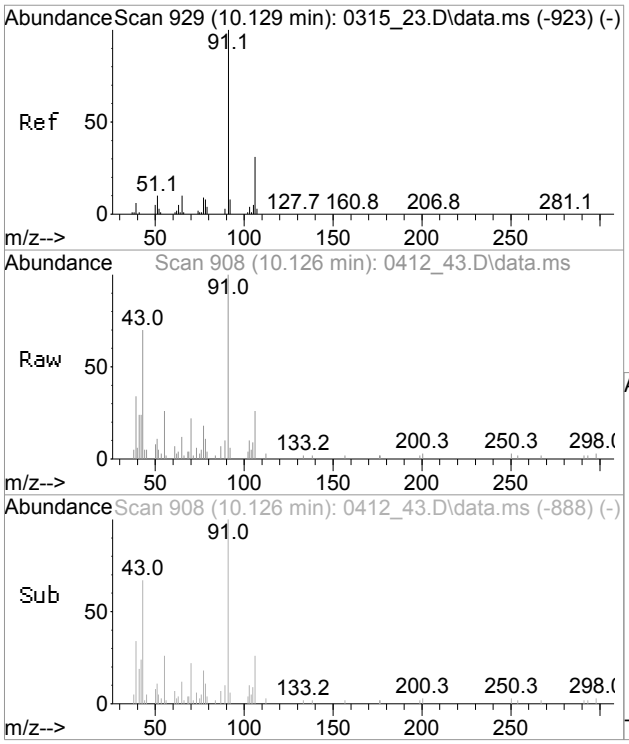


#52
Tetrachloroethene
Concen: 0.30 ppbv
RT: 9.604 min Scan# 838
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:166 Resp: 5433

Ion	Ratio	Lower	Upper
166	100		
164	92.2	62.2	93.4
129	77.1	56.6	84.8

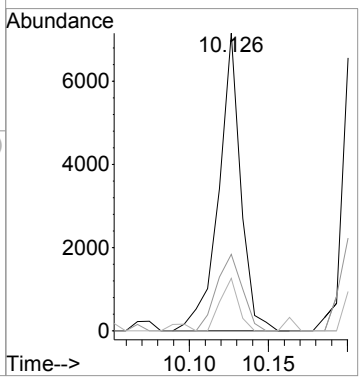


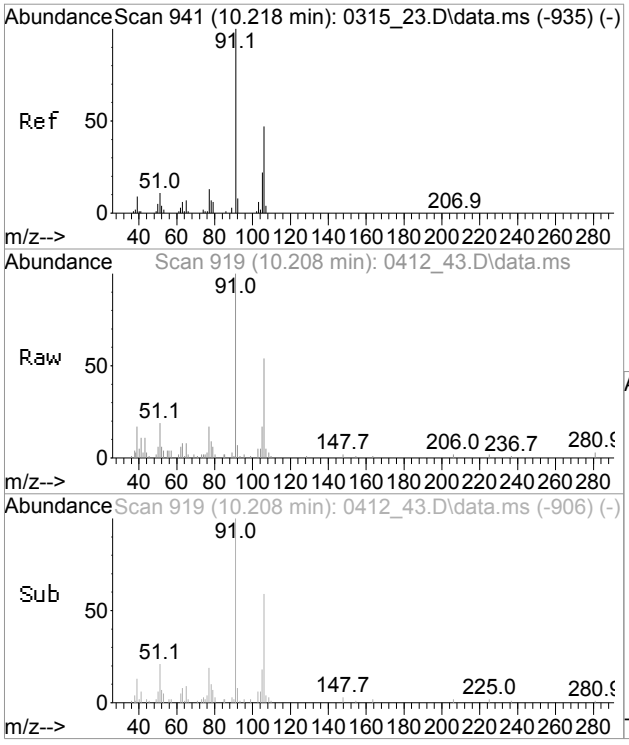


#56
Ethylbenzene
Concen: 0.27 ppbv
RT: 10.126 min Scan# 908
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 6909

Ion	Ratio	Lower	Upper
91	100		
106	30.2	10.8	50.8
77	14.5	0.0	28.9

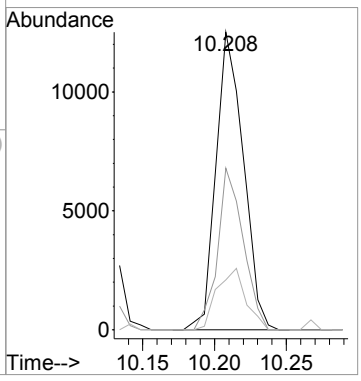


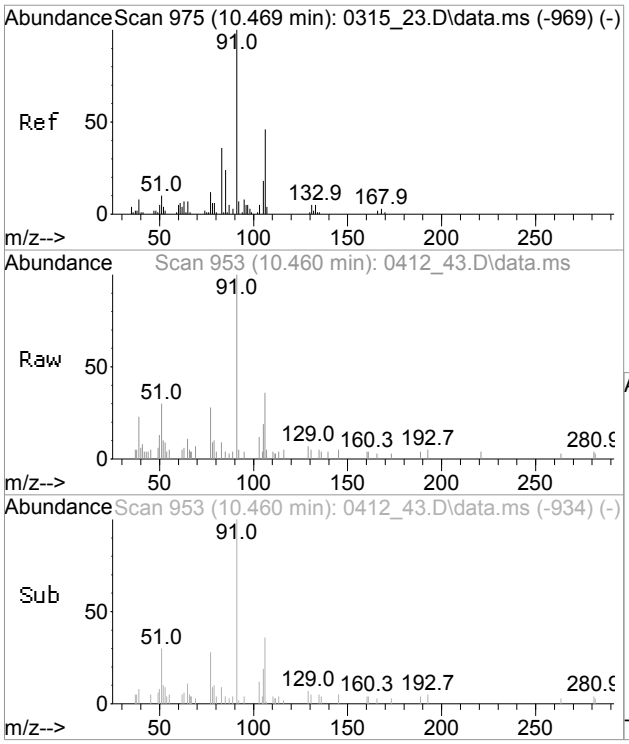


#57
m,p-Xylene
Concen: 0.79 ppbv
RT: 10.208 min Scan# 919
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 16612

Ion	Ratio	Lower	Upper
91	100		
106	51.0	38.7	58.1
105	21.7	16.6	25.0

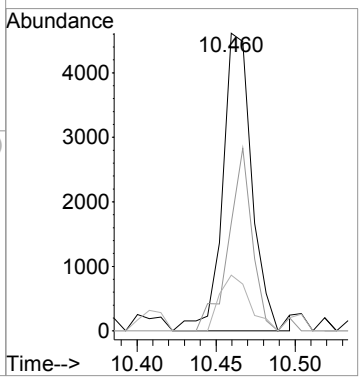


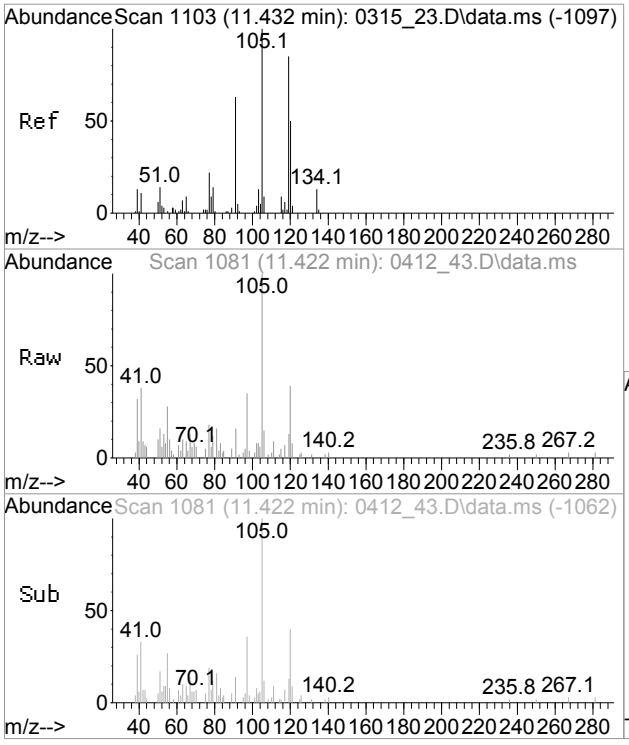


#61
o-Xylene
Concen: 0.28 ppbv
RT: 10.460 min Scan# 953
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 5991

Ion	Ratio	Lower	Upper
91	100		
106	49.1	37.4	56.2
105	19.2	14.1	21.1

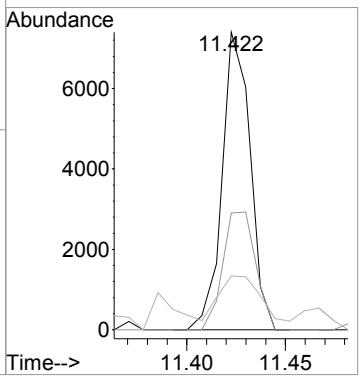


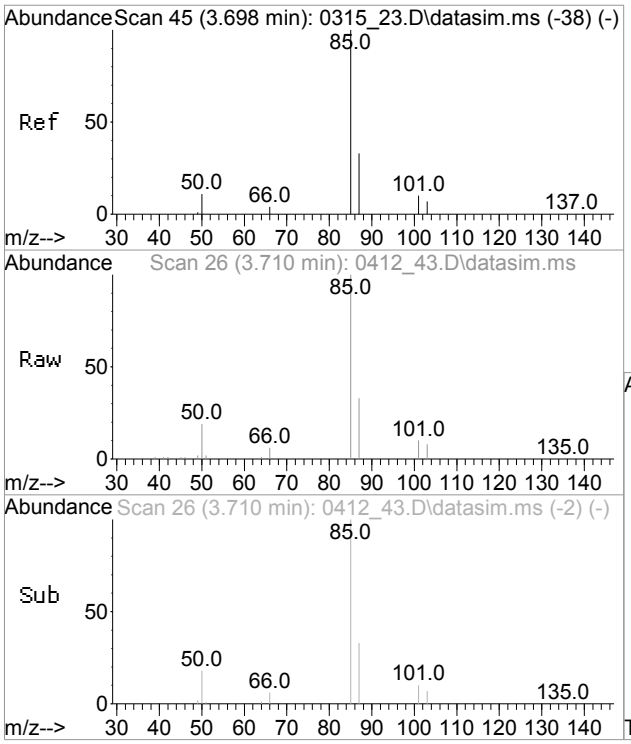


#68
1,2,4-Trimethylbenzene
Concen: 0.27 ppbv
RT: 11.422 min Scan# 1081
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:105 Resp: 7344

Ion	Ratio	Lower	Upper
105	100		
120	46.3	43.5	65.3
77	26.2	20.2	30.4

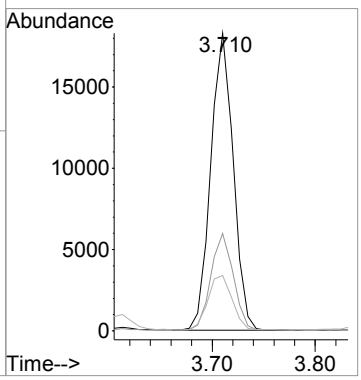


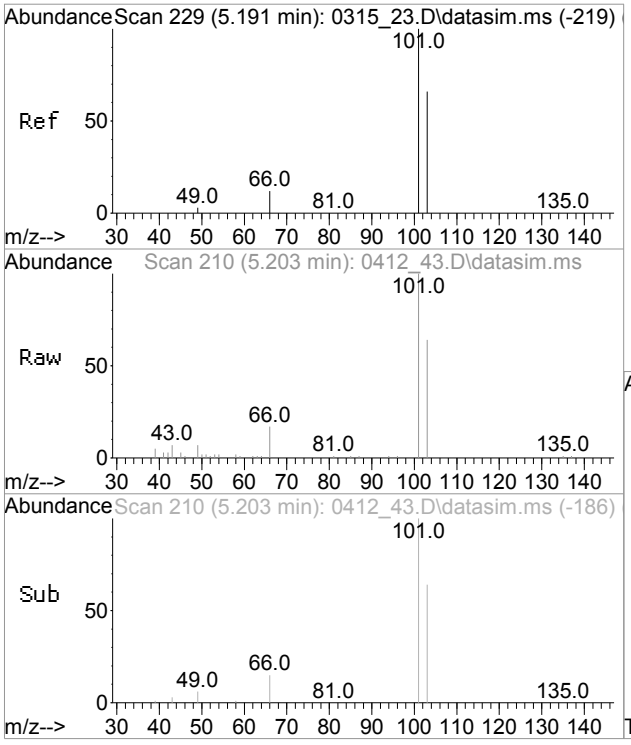


#81
Dichlorodifluoromethane(sim)
Concen: 0.53 ppbv
RT: 3.710 min Scan# 26
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 85 Resp: 27473

Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.7	52.7
50	19.7	0.0	32.3

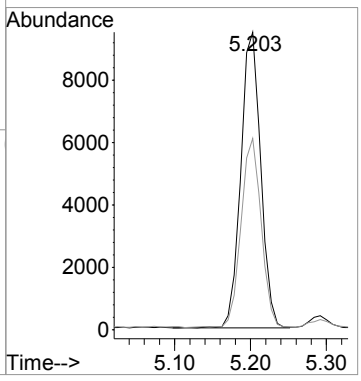


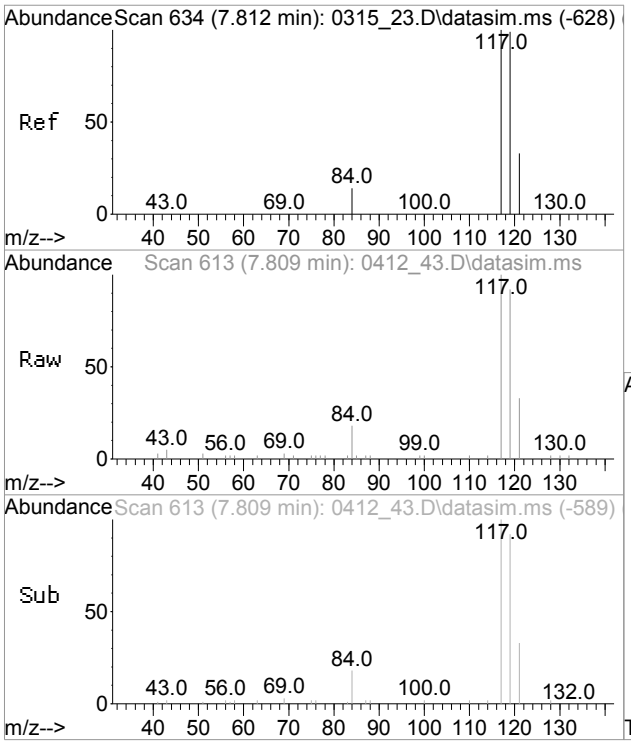


#85
Trichlorofluoromethane(sim)
Concen: 0.27 ppbv
RT: 5.203 min Scan# 210
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:101 Resp: 17250

Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.0	78.0

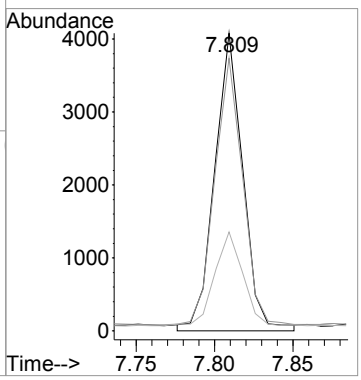


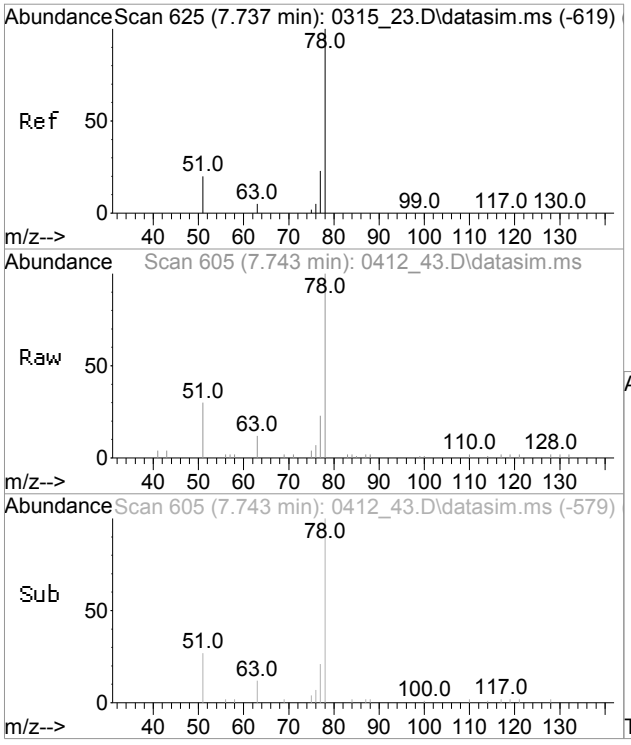


#88
Carbon Tetrachloride(sim)
Concen: 0.11 ppbv m
RT: 7.806 min Scan# 613
Delta R.T. -0.008 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:117 Resp: 3976

Ion	Ratio	Lower	Upper
117	100		
119	104.0	76.7	115.1
121	39.2	24.6	37.0#

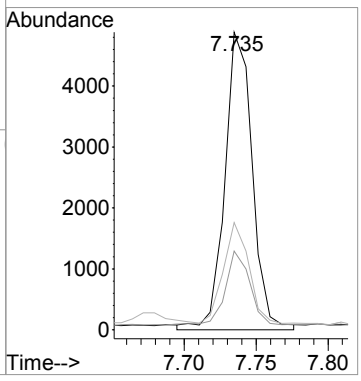


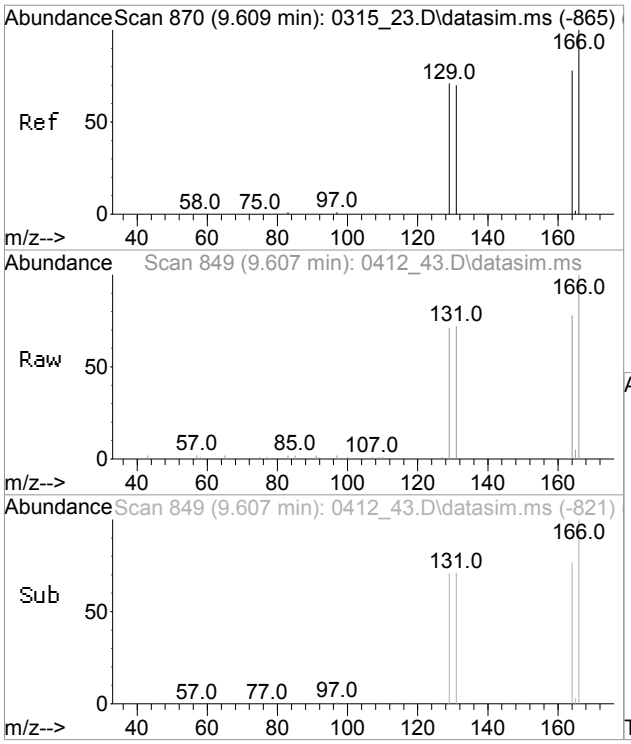


#96
Benzene(sim)
Concen: 0.31 ppbv
RT: 7.740 min Scan# 605
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 78 Resp: 7027

Ion	Ratio	Lower	Upper
78	100		
77	32.2	22.0	24.4#
51	29.1	14.9	22.3#

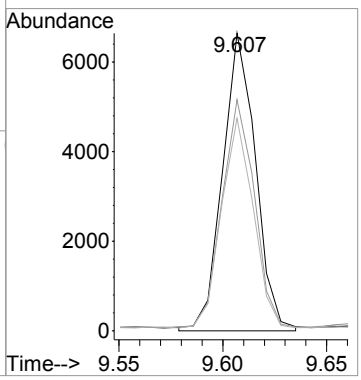


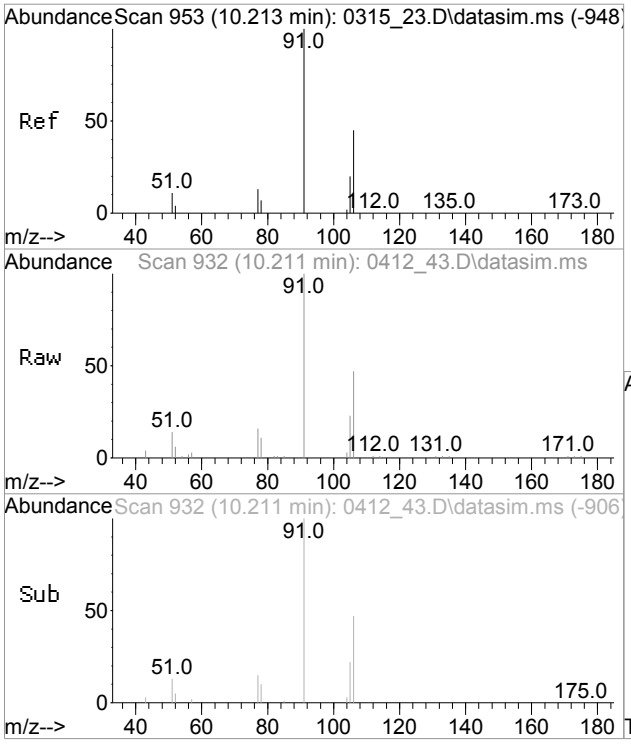


#106
Tetrachloroethene(sim)
Concen: 0.31 ppbv
RT: 9.604 min Scan# 849
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:166 Resp: 5327

Ion	Ratio	Lower	Upper
166	100		
164	92.2	57.8	97.8
129	78.6	50.7	90.7

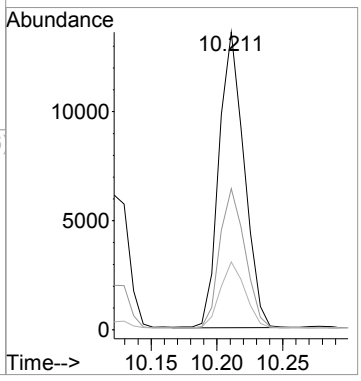


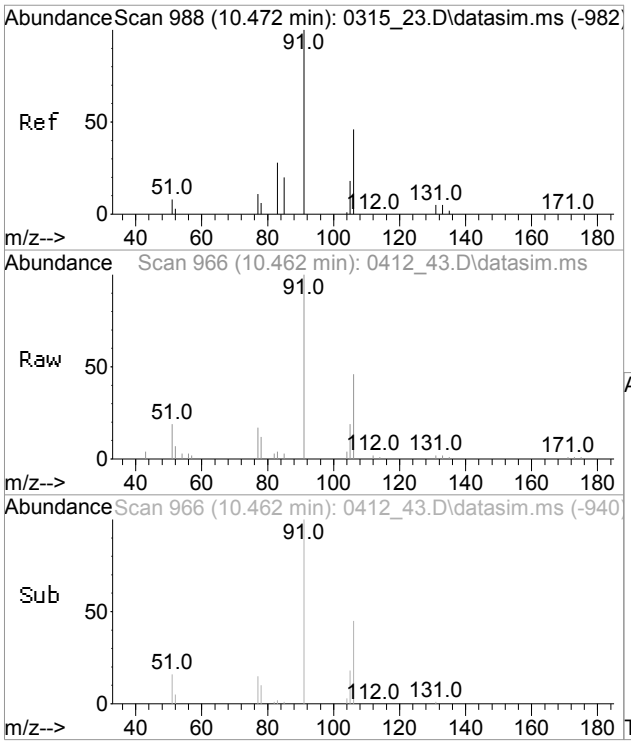


#111
m,p-Xylene(sim)
Concen: 0.75 ppbv
RT: 10.211 min Scan# 932
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 18094

Ion	Ratio	Lower	Upper
91	100		
106	47.7	43.6	53.2
105	22.5	16.6	25.0

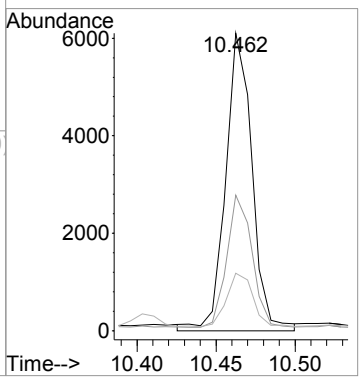


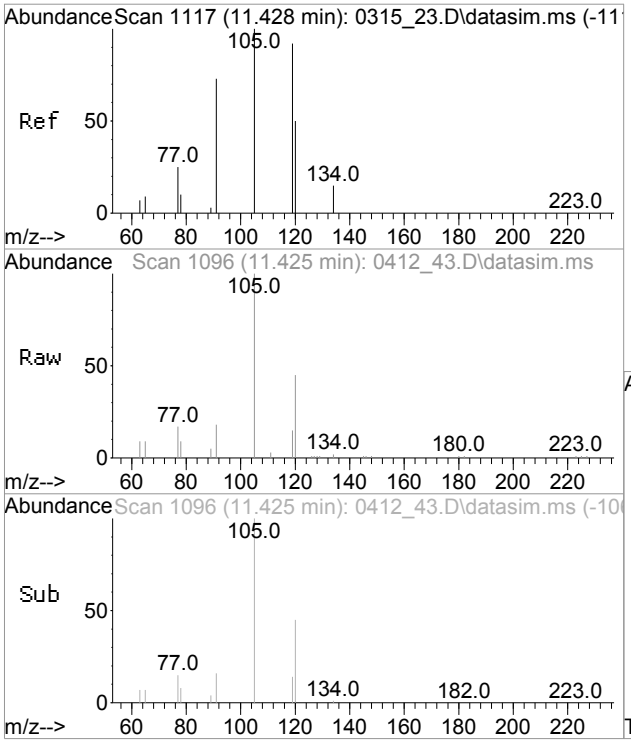


#114
o-Xylene(sim)
Concen: 0.28 ppbv
RT: 10.460 min Scan# 966
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion: 91 Resp: 5991

Ion	Ratio	Lower	Upper
91	100		
106	49.1	36.0	54.0
105	19.2	13.8	20.8

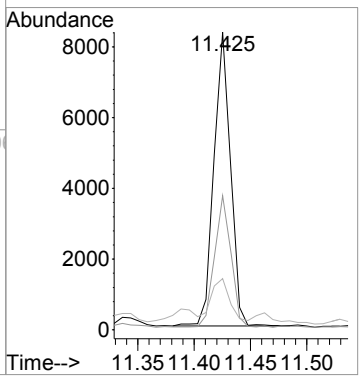


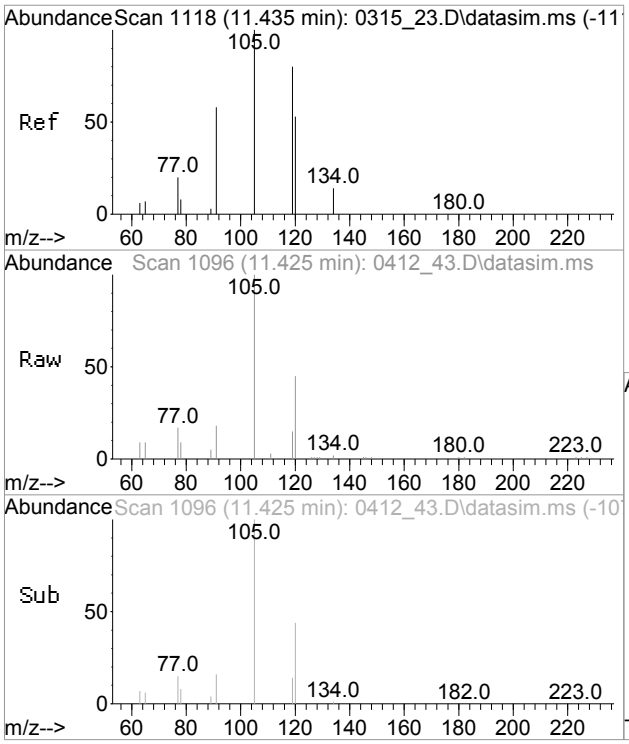


#119
1,2,4-Trimethylbenzene(sim)
Concen: 0.31 ppbv
RT: 11.425 min Scan# 1096
Delta R.T. 0.000 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:105 Resp: 8444

Ion	Ratio	Lower	Upper
105	100		
120	44.2	43.5	65.3
77	17.8	20.2	30.4#

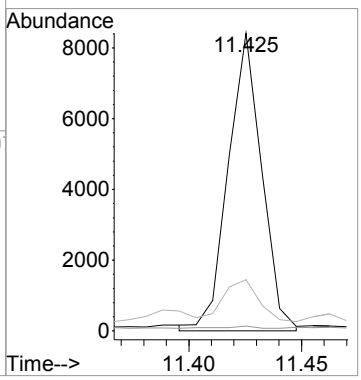




#124
sec-Butylbenzene(sim)
Concen: 0.30 ppbv
RT: 11.422 min Scan# 1096
Delta R.T. -0.007 min
Lab File: 0412_43.D
Acq: 13 Apr 2017 08:35 pm

Tgt Ion:105 Resp: 7344

Ion	Ratio	Lower	Upper
105	100		
134	1.3	0.0	35.9
77	21.6	0.0	34.1



AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 LCS

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 LCS

Canister: LCS Lab File ID: 0417_04.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	8.90		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	8.59		0.202	0.202	r
74-87-3	Chloromethane	8.98		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	9.16		0.143	0.143	r
75-01-4	Vinyl Chloride	9.18		0.098	0.098	r
106-99-0	1,3-Butadiene	9.52		0.452	0.452	r
74-83-9	Bromomethane	8.68		0.258	0.258	r
75-00-3	Chloroethane	8.76		0.379	0.379	r
64-17-5	Ethanol	4.83		0.531	0.531	r
67-64-1	Acetone	7.84		0.421	0.421	r
75-69-4	Trichlorofluoromethane	8.52		0.178	0.178	r
67-63-0	Isopropylalcohol	8.48		0.407	0.407	r
107-13-1	Acrylonitrile	9.08		0.461	0.461	r
75-35-4	1,1-Dichloroethene	8.65		0.252	0.252	r
75-09-2	Methylene Chloride	7.47		0.288	0.288	r
75-15-0	Carbon Disulfide	8.98		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	8.40		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.30		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.01		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.48		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	9.08		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	8.65		0.252	0.252	r
110-54-3	Hexane	9.13		0.284	0.284	r
67-66-3	Chloroform	8.52		0.205	0.205	r
141-78-6	Ethyl acetate	10.8		0.278	0.278	r
109-99-9	Tetrahydrofuran	9.90		0.339	0.339	r
107-06-2	1,2-Dichloroethane	8.84		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	8.41		0.183	0.183	r
71-43-2	Benzene	8.83		0.313	0.313	r
56-23-5	Carbon Tetrachloride	8.58		0.040	0.040	r
110-82-7	Cyclohexane	9.57		0.291	0.291	r
78-87-5	1,2-dichloropropane	9.53		0.217	0.217	r
75-27-4	Bromodichloromethane	8.65		0.149	0.149	r
79-01-6	Trichloroethene	9.03		0.047	0.047	r
123-91-1	1,4-Dioxane	9.19		0.278	0.278	r
142-82-5	Heptane	9.57		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

CLIENT ID

AIR ANALYSIS DATA SHEET

BY04726 LCS

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 LCS

Canister: LCS Lab File ID: 0417_04.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	9.61		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	9.70		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	9.08		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.29		0.183	0.183	r
108-88-3	Toluene	9.65		0.266	0.266	r
124-48-1	Dibromochloromethane	9.09		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	9.54		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	8.95		0.130	0.130	r
127-18-4	Tetrachloroethene	9.05		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	9.78		0.146	0.146	r
108-90-7	Chlorobenzene	9.09		0.217	0.217	r
100-41-4	Ethylbenzene	9.45		0.230	0.230	r
179601-23-1	m,p-Xylene	19.2		0.230	0.230	r
75-25-2	Bromoform	8.77		0.097	0.097	r
100-42-5	Styrene	10.2		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	8.99		0.146	0.146	r
95-47-6	o-Xylene	9.64		0.230	0.230	r
98-82-8	Isopropylbenzene	9.71		0.204	0.204	r
622-96-8	4-Ethyltoluene	9.42		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	8.82		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	8.99		0.204	0.204	r
100-44-7	Benzyl chloride	9.09		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	8.54		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	8.74		0.166	0.166	r
135-98-8	sec-Butylbenzene	8.53		0.182	0.182	r
99-87-6	4-Isopropyltoluene	8.69		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	8.79		0.166	0.166	r
104-51-8	n-Butylbenzene	9.41		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	10.6		0.135	0.135	r
87-68-3	Hexachlorobutadiene	9.03		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2017 11:08 am
Operator : Keith
Client ID : BY04726 LCS
Lab ID : BY04726 LCS
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:03:19 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.958	130	112224	10.000	ng		0.01
36) 1,4-Difluorobenzene	5.948	114	383897	10.000	ng		0.01
53) Chlorobenzene-d5	9.222	82	214466	10.000	ng		0.00
80) Bromochloromethane(sim)	3.958	130	112224	10.000	ng		0.01
93) 1,4-Difluorobenzene(sim)	5.951	114	415606	10.000	ng	#	0.01
103) Chlorobenzene-d5(sim)	9.218	82	228277	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.132	95	277597	9.849	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
Target Compounds							Qvalue
2) Propylene	1.520	41	54802	8.899	ppbv		94
3) Dichlorodifluoromethane	1.545	85	376259	8.592	ppbv		99
4) Chloromethane	1.613	52	25884	8.980	ppbv#		81
5) 1,2-Dichlorotetrafluor...	1.656	85	326844	9.162	ppbv		93
6) Vinyl Chloride	1.698	62	99605	9.175	ppbv		100
7) 1,3-Butadiene	1.749	54	63714	9.518	ppbv		97
8) Bromomethane	1.859	94	120078	8.676	ppbv#		98
9) Chloroethane	1.927	64	42320	8.764	ppbv		94
10) Ethanol	2.003	45	20139	4.831	ppbv		96
12) Acetone	2.189	43	151026	7.838	ppbv		100
13) Trichlorofluoromethane	2.240	101	407542	8.515	ppbv		99
14) Isopropylalcohol	2.316	45	145110	8.475	ppbv		94
15) Acrylonitrile	2.384	53	55072	9.079	ppbv		94
16) 1,1-Dichloroethene	2.528	61	182980	8.651	ppbv		93
17) Methylene Chloride	2.587	49	107269	7.474	ppbv#		84
20) Carbon Disulfide	2.732	76	279055	8.982	ppbv		100
21) Trichlorotrifluoroethane	2.732	101	254126	8.395	ppbv		88
22) Trans-1,2-Dichloroethene	3.104	61	159909	9.302	ppbv		91
23) 1,1-Dichloroethane	3.231	63	196487	9.013	ppbv		99
24) Methyl tert-butyl ethe...	3.305	73	289141	9.476	ppbv		94
25) Methyl Ethyl Ketone	3.525	43	164831	9.079	ppbv		94
26) Cis-1,2-Dichloroethene	3.831	61	146302	8.654	ppbv		90
27) Hexane	4.031	57	116411	9.130	ppbv		97
28) Chloroform	4.085	83	275405	8.519	ppbv		97
29) Ethyl acetate	4.078	43	221237	10.756	ppbv		98
30) Tetrahydrofuran	4.451	42	78746	9.897	ppbv#		83
31) 1,2-Dichloroethane	4.782	62	215619	8.839	ppbv#		91
32) 1,1,1-Trichloroethane	5.056	97	305578	8.405	ppbv		99
33) Benzene	5.533	78	293956	8.830	ppbv		98
34) Carbon Tetrachloride	5.674	117	352599	8.582	ppbv		100
35) Cyclohexane	5.793	56	123654	9.570	ppbv		96
37) 1,2-dichloropropane	6.320	63	83929	9.526	ppbv#		92
38) Bromodichloromethane	6.487	83	311346	8.651	ppbv		96
39) Trichloroethene	6.533	130	159304	9.034	ppbv#		88
41) 1,4-Dioxane	6.567	88	70470	9.187	ppbv		99
43) Heptane	6.853	71	89423	9.574	ppbv		95
44) cis-1,3-Dichloropropene	7.260	75	210710	9.612	ppbv		94
45) 4-Methyl-2-pentanone(M...	7.347	43	220462	9.700	ppbv		99
46) trans-1,3-Dichloropropene	7.675	75	212115	9.077	ppbv		95
47) 1,1,2-Trichloroethane	7.778	97	152810	9.285	ppbv		98
48) Toluene	7.977	91	399929	9.654	ppbv		97
49) Dibromochloromethane	8.265	129	348131	9.094	ppbv		98

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2017 11:08 am
Operator : Keith
Client ID : BY04726 LCS
Lab ID : BY04726 LCS
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:03:19 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	2-Hexanone(MBK)	8.244	43	208678	9.544	ppbv#	89
51)	1,2-Dibromoethane(EDB)	8.430	107	272388	8.946	ppbv	96
52)	Tetrachloroethene	8.779	166	223699	9.052	ppbv#	90
54)	1,1,1,2-Tetrachloroethane	9.245	131	210880	9.782	ppbv	99
55)	Chlorobenzene	9.253	112	329206	9.088	ppbv	94
56)	Ethylbenzene	9.510	91	527481	9.447	ppbv	97
57)	m,p-Xylene	9.624	91	928820	19.202	ppbv	92
58)	Bromoform	9.632	173	330045	8.772	ppbv	99
59)	Styrene	9.829	104	307555	10.169	ppbv	94
60)	1,1,2,2-Tetrachloroethane	9.882	83	319995	8.993	ppbv	98
61)	o-Xylene	9.890	91	443480	9.638	ppbv	93
64)	Isopropylbenzene	10.208	105	578526	9.706	ppbv	97
66)	4-Ethyltoluene	10.551	105	607458	9.417	ppbv	96
67)	1,3,5-Trimethylbenzene	10.589	105	501595	8.823	ppbv	93
68)	1,2,4-Trimethylbenzene	10.789	105	508119	8.988	ppbv	91
70)	Benzyl chloride	10.848	91	407907	9.092	ppbv#	92
71)	1,3-Dichlorobenzene	10.854	146	324157	8.538	ppbv#	95
72)	1,4-Dichlorobenzene	10.892	146	316054	8.736	ppbv#	95
73)	sec-Butylbenzene	10.924	105	651571	8.529	ppbv	94
74)	4-Isopropyltoluene	11.005	119	616308	8.685	ppbv#	91
75)	1,2-Dichlorobenzene	11.054	146	321057	8.792	ppbv#	95
76)	n-Butylbenzene	11.205	91	578645	9.410	ppbv	93
77)	1,2,4-Trichlorobenzene	11.894	180	212425	10.573	ppbv#	97
79)	Hexachlorobutadiene	12.123	225	310826	9.028	ppbv	100
81]	1,2-Dichlorotetrafluor...	1.658	85	352717	10.265	ppbv	91
82]	Vinyl Chloride(sim)	1.698	62	99605	10.737	ppbv	100
83]	Bromomethane(sim)	1.853	94	129249	9.049	ug/l	99
84]	Trichlorofluoromethane...	2.240	101	407542	8.359	ppbv	99
85]	Trans-1,2-Dichloroethe...	3.101	61	172306	9.943	ppbv	94
86]	1,1-Dichloroethene(sim)	2.528	61	182980	9.348	ppbv	93
87]	1,1-Dichloroethane(sim)	3.234	63	209809	9.850	ppbv	100
88]	Cis-1,2-Dichloroethene...	3.831	61	146302	10.132	ppbv	90
89]	1,2-Dichloroethane(sim)	4.785	62	214351	9.321	ppbv#	95
90]	1,1,1-Trichloroethane(...	5.056	97	305578	9.515	ppbv#	99
91]	Carbon Tetrachloride(sim)	5.677	117	370328	9.468	ppbv	100
92]	Trichlorotrifluoroetha...	2.732	101	254126	8.701	ppbv	99
94]	1,2-dichloropropane(sim)	6.320	63	83929	10.975	ppbv#	92
95]	Bromodichloromethane(sim)	6.489	83	335316	10.478	ppbv	96
96]	Trichloroethene(sim)	6.533	130	159304	10.947	ppbv#	90
97]	1,4-Dioxane(sim)	6.570	88	75653	9.939	ppbv	100
98]	cis-1,3-Dichloropropen...	7.260	75	210710	11.542	ppbv	94
99]	1,1,2-Trichloroethane(...	7.781	97	167604	9.984	ppbv	99
100]	Dibromochloromethane(sim)	8.265	129	348131	10.386	ppbv	99
101]	1,2-Dibromoethane(EDB)...	8.433	107	296310	10.379	ppbv	96
102]	Tetrachloroethene(sim)	8.779	166	223699	11.340	ppbv	90
104]	Bromoform(sim)	9.632	173	330045	10.068	ppbv	100
105]	1,1,1,2-Tetrachloroeth...	9.248	131	231020	10.098	ppbv	100
106]	m,p-Xylene(sim)	9.624	91	928908	20.103	ppbv#	92
107]	1,1,2,2-Tetrachloroeth...	9.885	83	347075	8.587	ppbv	96
110]	Benzyl chloride(sim)	10.848	91	408415	10.125	ppbv	92
111]	1,3-Dichlorobenzene(sim)	10.857	146	365479	8.792	ppbv#	96
112]	1,4-Dichlorobenzene(sim)	10.892	146	316086	9.159	ppbv	95
113]	sec-Butylbenzene(sim)	10.922	105	689992	8.777	ppbv	93
114]	4-Isopropyltoluene(sim)	11.005	119	616308	9.390	ppbv#	91
115]	1,2-Dichlorobenzene(sim)	11.057	146	360029	8.401	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2017 11:08 am
Operator : Keith
Client ID : BY04726 LCS
Lab ID : BY04726 LCS
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:03:19 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

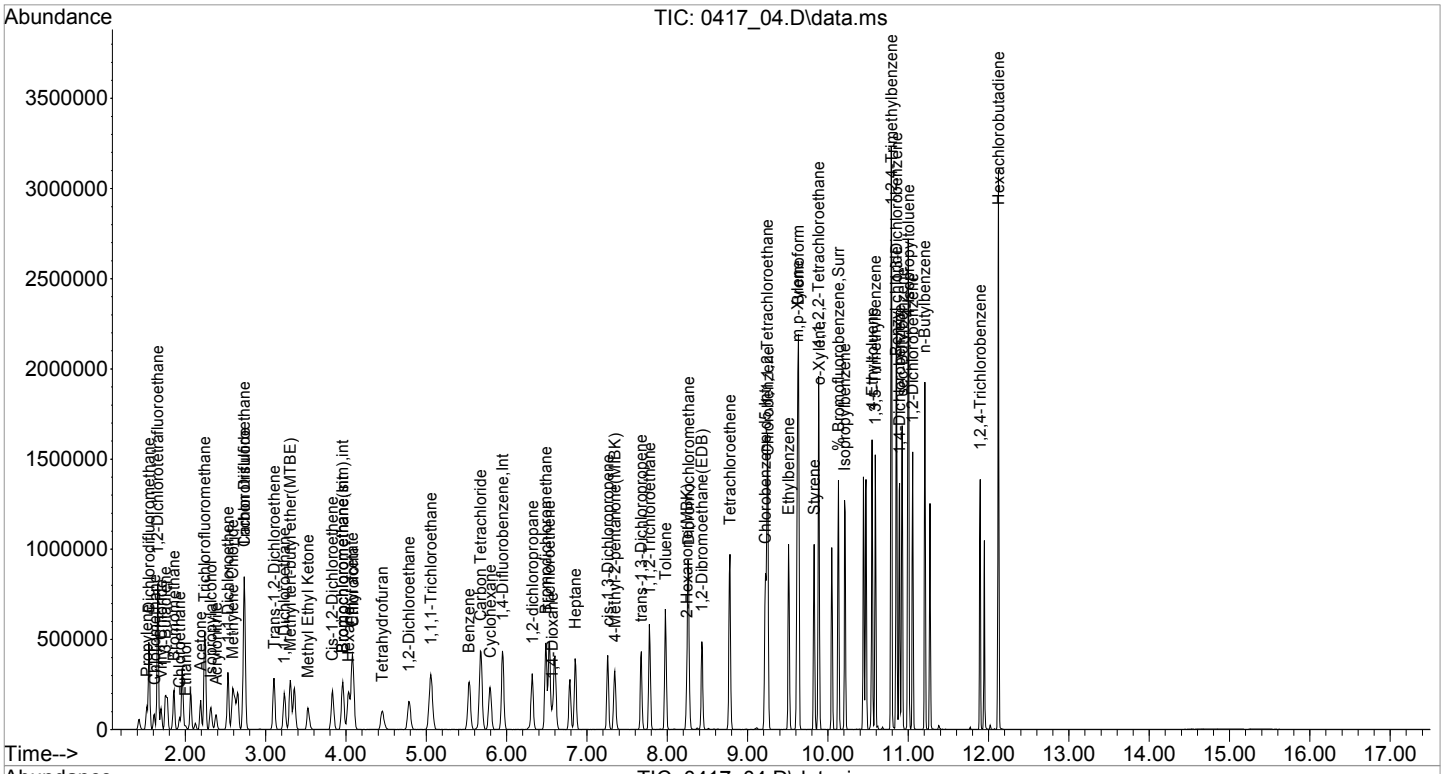
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
116] n-Butylbenzene(sim)	11.205	91	578645	10.332	ppbv	93
117] 1,2,4-Trichlorobenzene...	11.892	180	242170	13.509	ppbv	95
119] Hexachlorobutadiene(sim)	12.121	225	335177	8.450	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2017 11:08 am
Operator : Keith
Client ID : BY04726 LCS
Lab ID : BY04726 LCS
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:03:19 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 QC

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726

Canister: 19930 Lab File ID: 0417_21.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.360		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	10.0	S	0.531	0.531	r
67-64-1	Acetone	11.0	S	0.421	0.421	r
67-63-0	Isopropylalcohol	6.10	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.670		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	3.70		0.339	0.339	r
110-54-3	Hexane	1.20	S	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	2.00		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.340		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.60		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.510		0.037	0.037	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.710		0.230	0.230	r
179601-23-1	m,p-Xylene	1.90		0.230	0.230	r
100-42-5	Styrene	0.250		0.235	0.235	r
95-47-6	o-Xylene	0.740		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.420		0.204	0.204	r
541-73-1	1,3-Dichlorobenzene	0.210		0.166	0.166	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

CLIENT ID

AIR ANALYSIS DATA SHEET

BY04726 QC

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726

Canister: 19930 Lab File ID: 0417_21.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.190		0.178	0.178	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.077		0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.070		0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_21.D
Acq On : 17 Apr 2017 8:26 pm
Operator : Keith
Client ID : BY04726 QC
Lab ID : BY04726
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 18 09:03:27 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

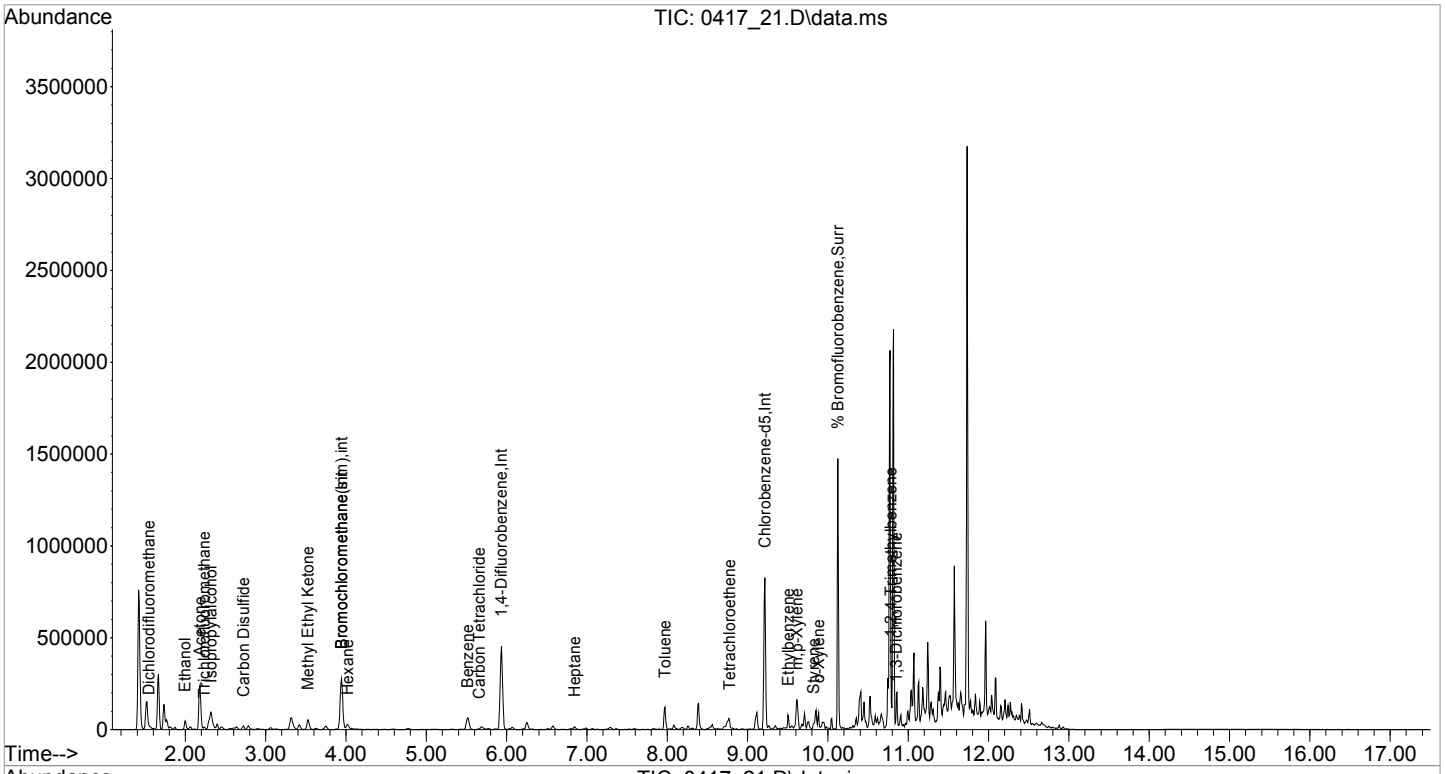
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	117626	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	396939	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	203638	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	117626	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	431018	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	211336	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	283501	10.593	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.90%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.545	85	16371	0.357	ppbv		99
10) Ethanol	1.994	45	44552	10.196	ppbv		96
12) Acetone	2.181	43	230162	11.396	ppbv		92
13) Trichlorofluoromethane	2.232	101	9536	0.190	ppbv		95
14) Isopropylalcohol	2.316	45	109288	6.090	ppbv		94
20) Carbon Disulfide	2.723	76	21898	0.672	ppbv		94
25) Methyl Ethyl Ketone	3.525	43	70885	3.725	ppbv		94
27) Hexane	4.018	57	15379	1.151	ppbv		92
33) Benzene	5.512	78	70768	2.028	ppbv		97
34) Carbon Tetrachloride	5.660	117	2876	0.067	ppbv		96
39) Trichloroethene	6.513	130	835	0.046	ppbv#		79
43) Heptane	6.847	71	3260	0.338	ppbv#		93
48) Toluene	7.970	91	70058	1.636	ppbv		96
52) Tetrachloroethene	8.773	166	12967	0.507	ppbv#		91
56) Ethylbenzene	9.503	91	37876	0.714	ppbv		95
57) m,p-Xylene	9.617	91	89486	1.948	ppbv		96
59) Styrene	9.821	104	7242	0.252	ppbv#		83
61) o-Xylene	9.882	91	32348	0.740	ppbv		92
68) 1,2,4-Trimethylbenzene	10.784	105	22488	0.419	ppbv#		1
71) 1,3-Dichlorobenzene	10.848	146	7543	0.209	ppbv#		93
102] Tetrachloroethene(sim)	8.773	166	12967	0.634	ppbv		91
106] m,p-Xylene(sim)	9.617	91	89486	2.092	ppbv		96

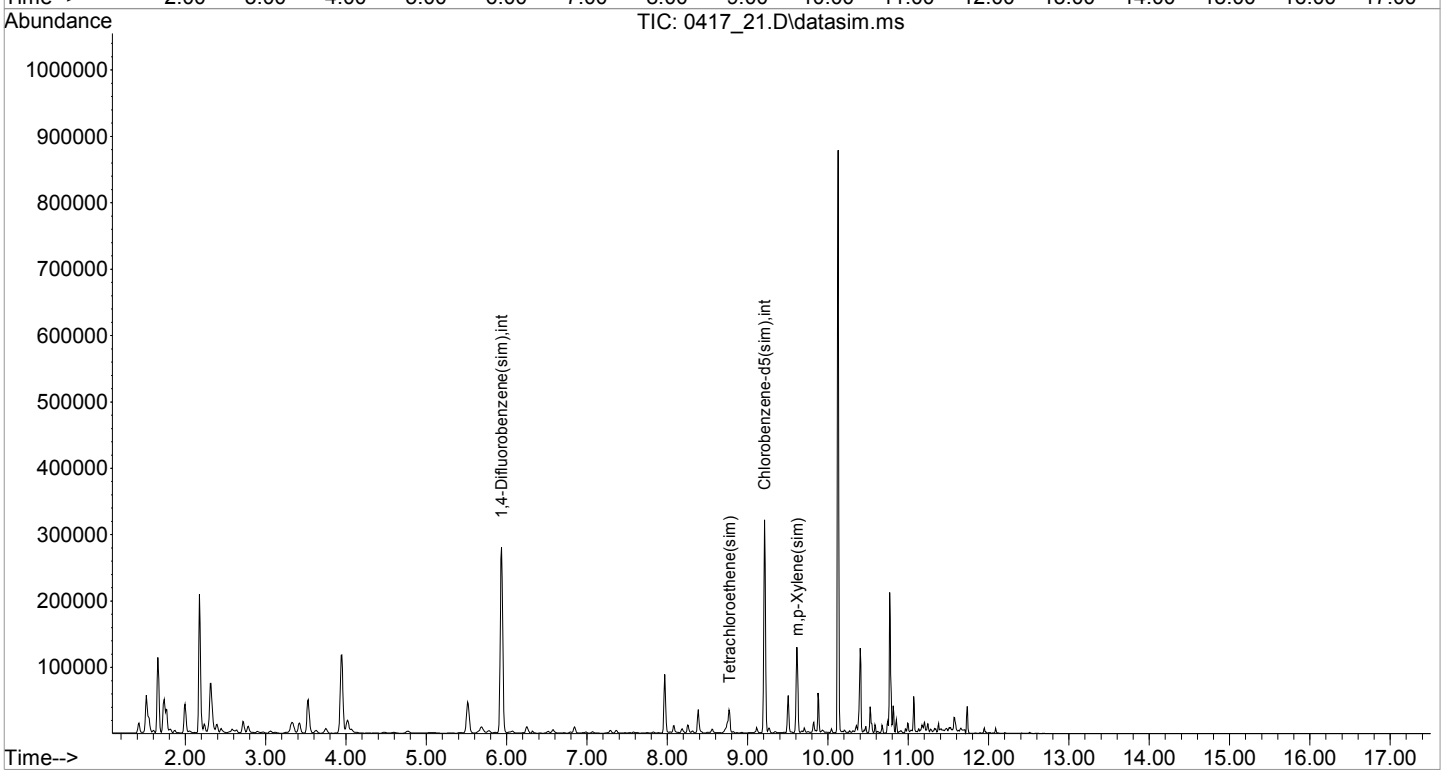
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

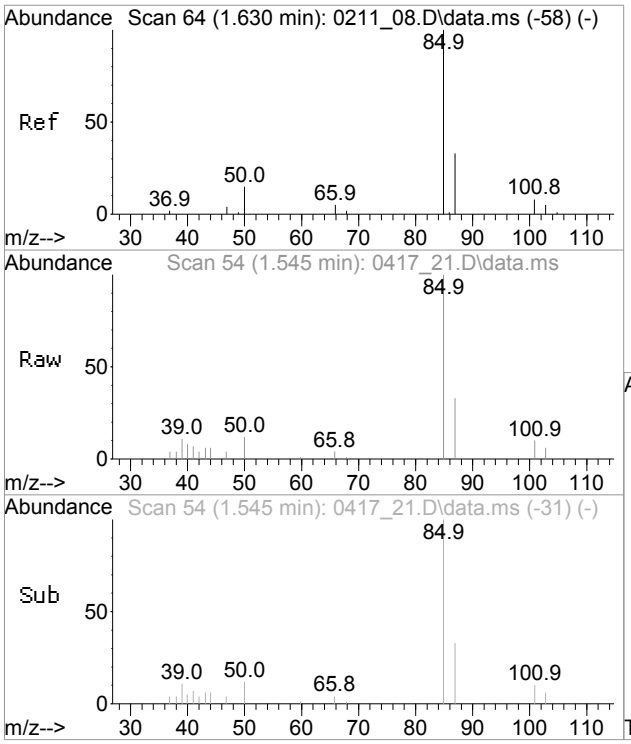
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_21.D
Acq On : 17 Apr 2017 8:26 pm
Operator : Keith
Client ID : BY04726 QC
Lab ID : BY04726
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 18 09:03:27 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



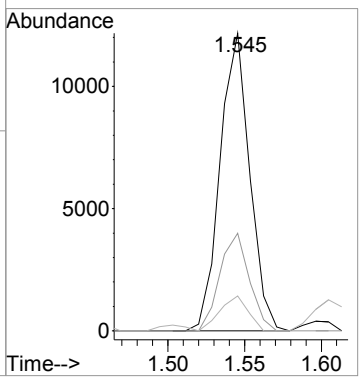


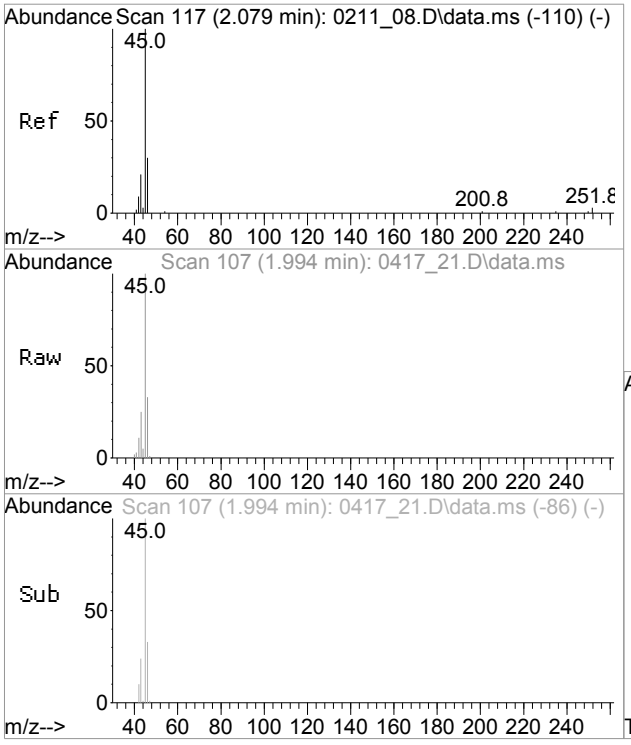


#3
Dichlorodifluoromethane
Concen: 0.36 ppbv
RT: 1.545 min Scan# 54
Delta R.T. -0.008 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 85 Resp: 16371

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.1	39.1
50	11.1	10.0	15.0

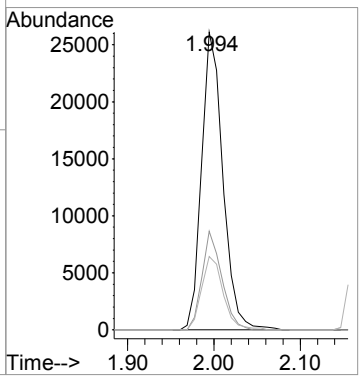


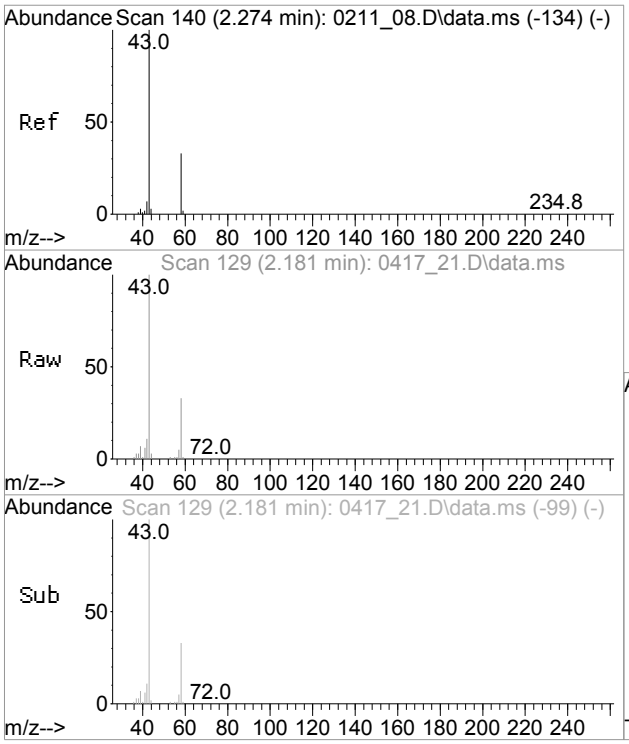


#10
Ethanol
Concen: 10.20 ppbv
RT: 1.994 min Scan# 107
Delta R.T. -0.025 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 45 Resp: 44552

Ion	Ratio	Lower	Upper
45	100		
46	30.7	25.7	38.5
43	24.9	17.7	26.5

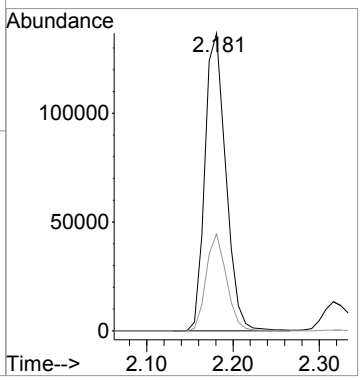


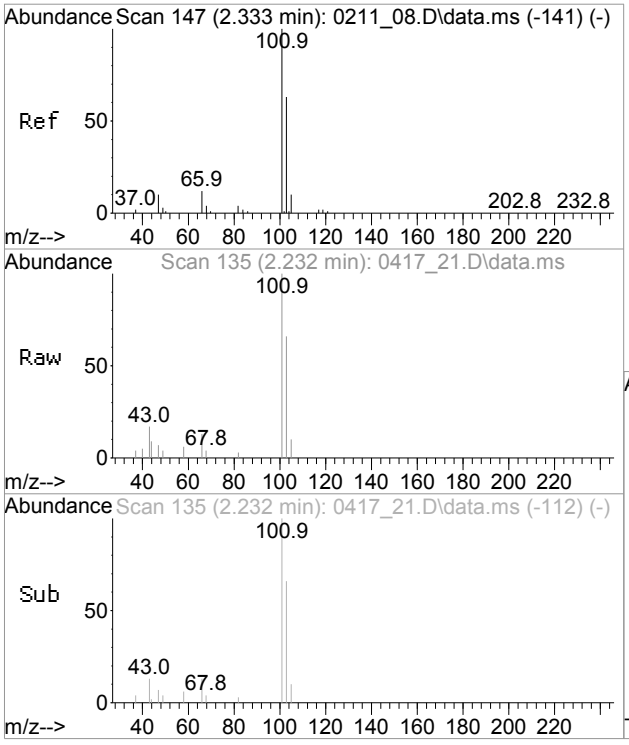


#12
Acetone
Concen: 11.40 ppbv
RT: 2.181 min Scan# 129
Delta R.T. -0.042 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 43 Resp: 230162

Ion	Ratio	Lower	Upper
43	100		
58	31.6	21.8	32.8

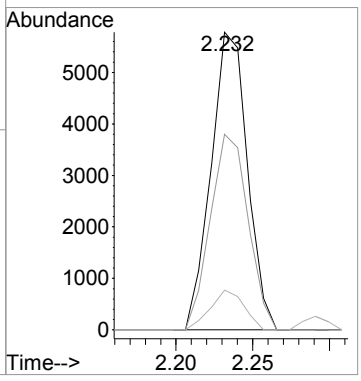


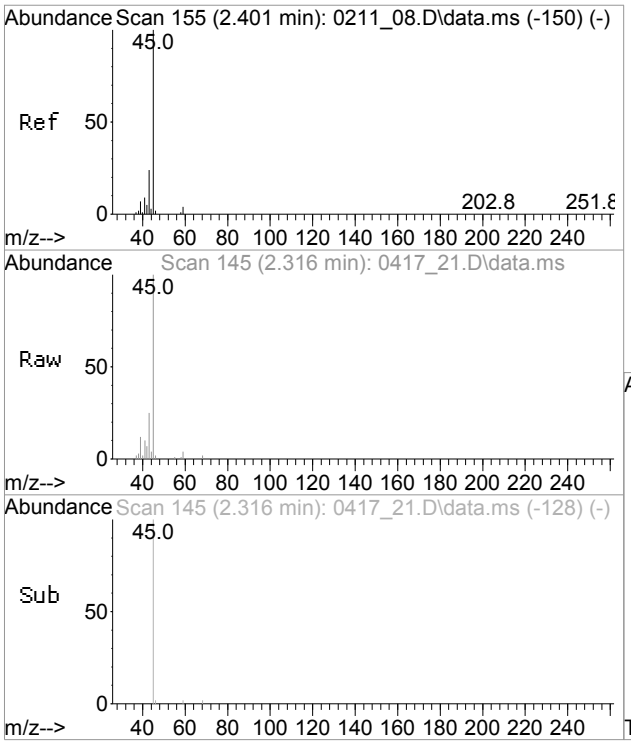


#13
Trichlorofluoromethane
Concen: 0.19 ppbv
RT: 2.232 min Scan# 135
Delta R.T. -0.008 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:101 Resp: 9536

Ion	Ratio	Lower	Upper
101	100		
103	68.3	51.5	77.3
66	12.4	8.7	13.1

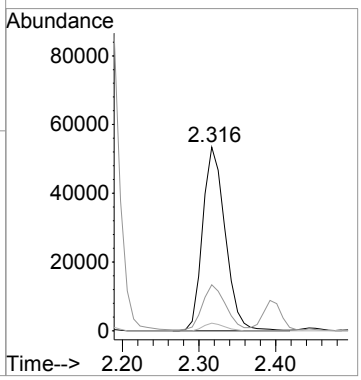


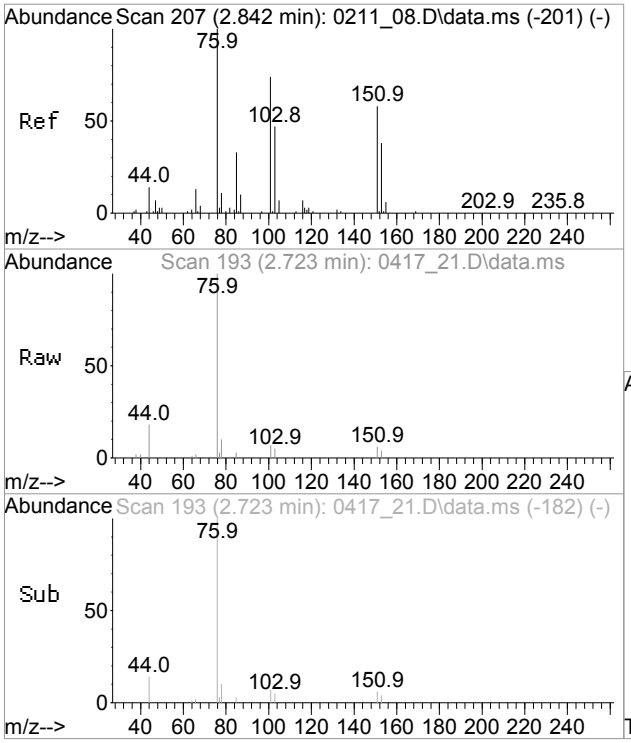


#14
Isopropylalcohol
Concen: 6.09 ppbv
RT: 2.316 min Scan# 145
Delta R.T. -0.059 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 45 Resp: 109288

Ion	Ratio	Lower	Upper
45	100		
43	25.0	17.3	25.9
59	3.9	3.0	4.6

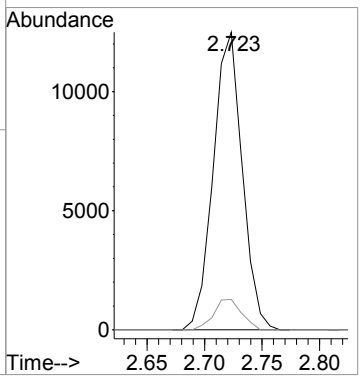


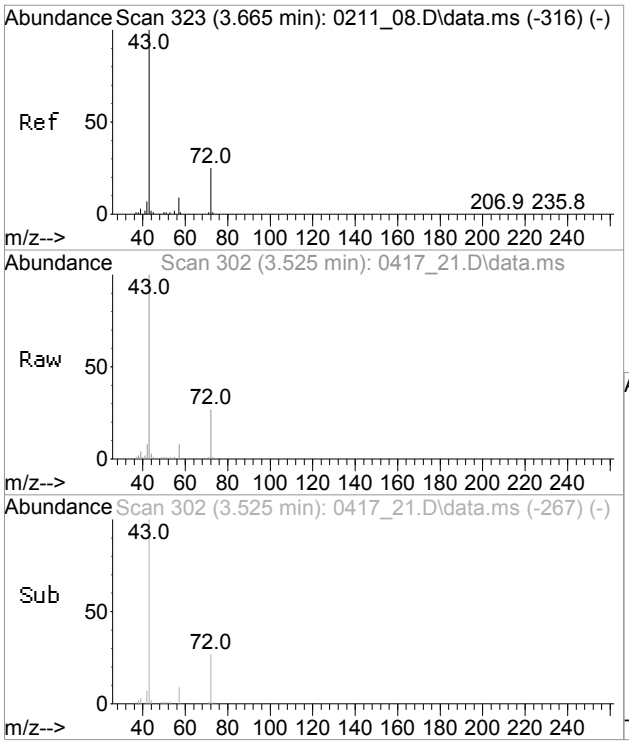


#20
Carbon Disulfide
Concen: 0.67 ppbv
RT: 2.723 min Scan# 193
Delta R.T. -0.008 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 76 Resp: 21898

Ion	Ratio	Lower	Upper
76	100		
78	9.9	9.7	14.5

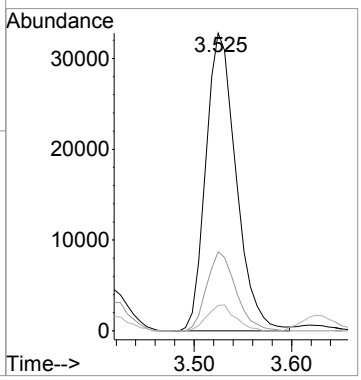


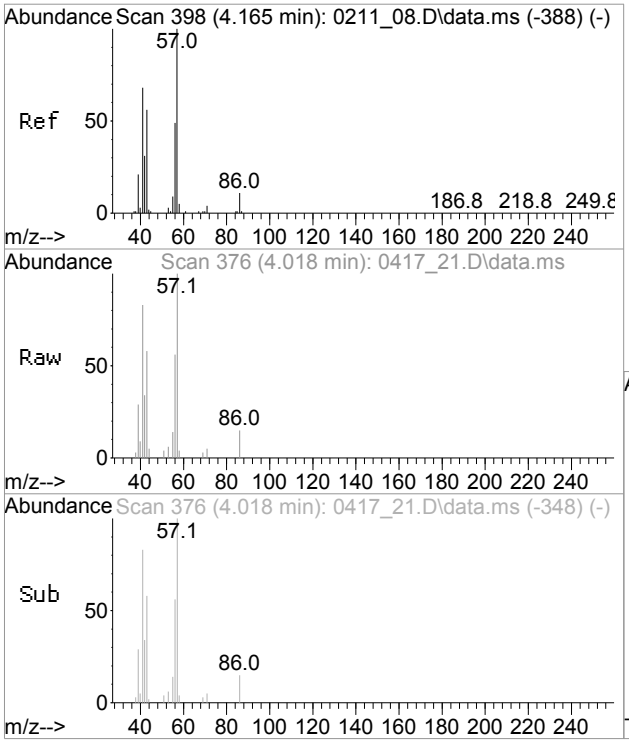


#25
Methyl Ethyl Ketone
Concen: 3.73 ppbv
RT: 3.525 min Scan# 302
Delta R.T. -0.067 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 43 Resp: 70885

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.7	26.5
57	8.1	5.9	8.9

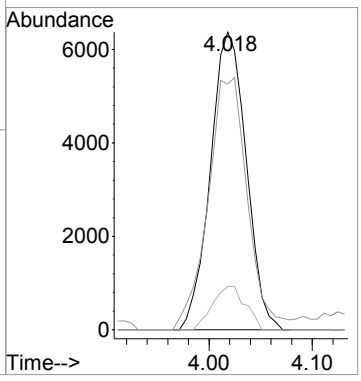


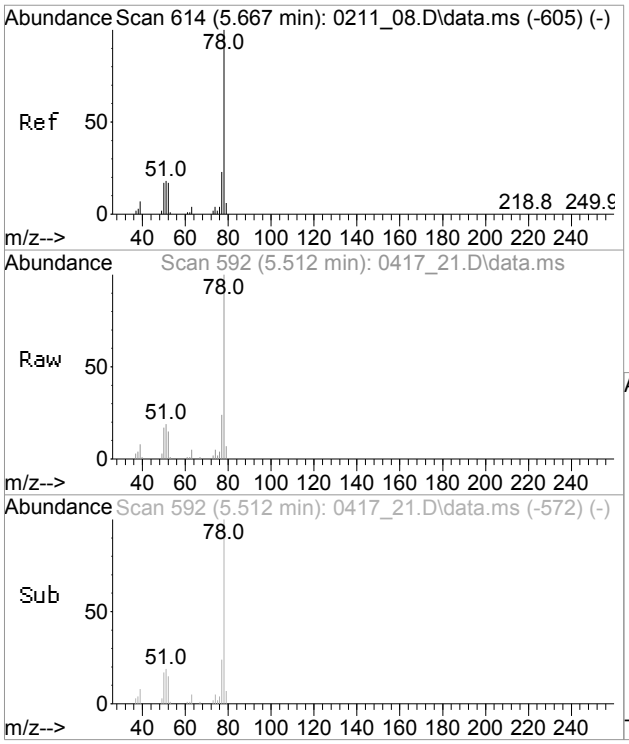


#27
Hexane
Concen: 1.15 ppbv
RT: 4.018 min Scan# 376
Delta R.T. -0.013 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 57 Resp: 15379

Ion	Ratio	Lower	Upper
57	100		
41	93.0	67.6	101.4
86	13.4	11.8	17.6

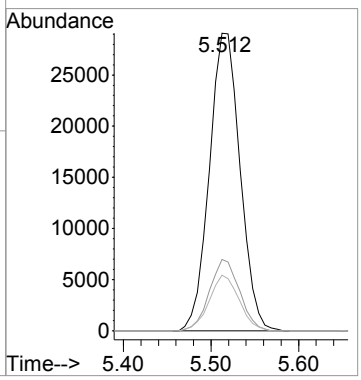


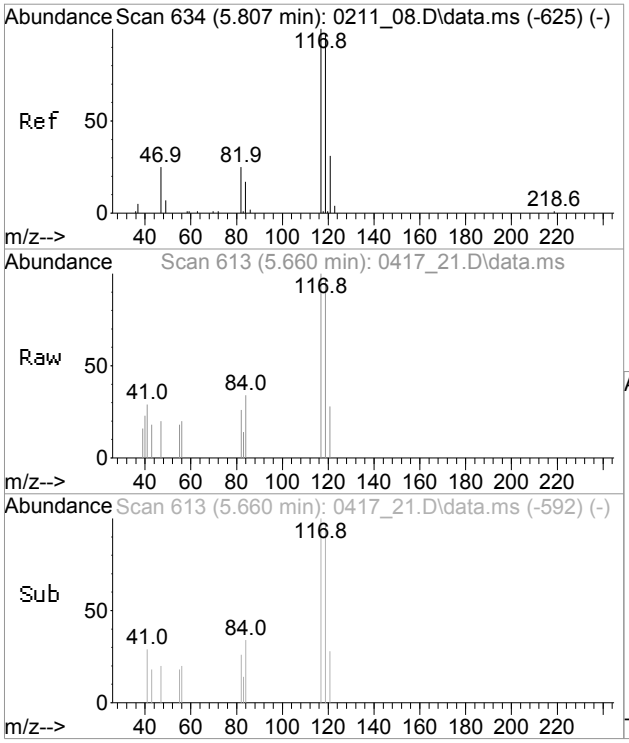


#33
Benzene
Concen: 2.03 ppbv
RT: 5.512 min Scan# 592
Delta R.T. -0.007 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 78 Resp: 70768

Ion	Ratio	Lower	Upper
78	100		
77	23.5	17.9	26.9
51	18.3	13.6	20.4

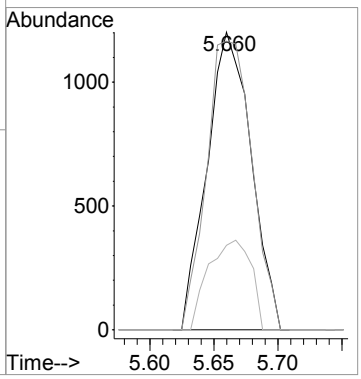


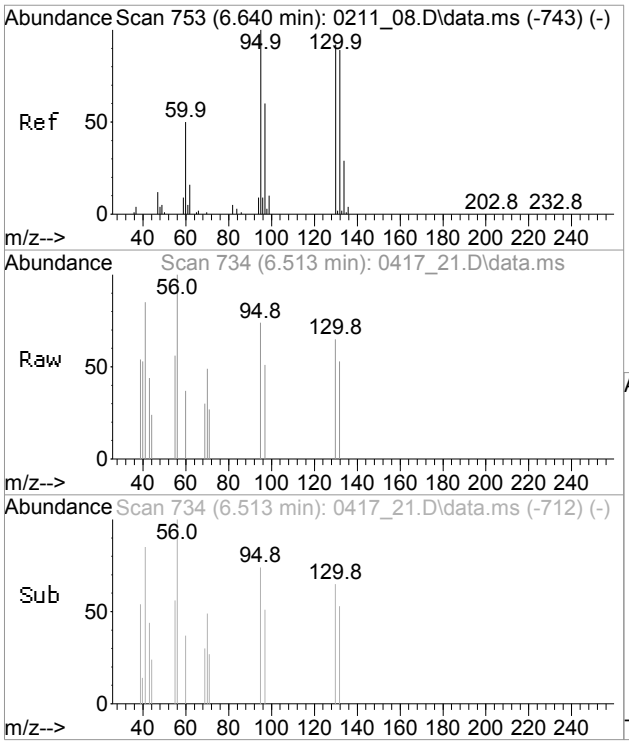


#34
Carbon Tetrachloride
Concen: Below Cal
RT: 5.660 min Scan# 613
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:117 Resp: 2876

Ion	Ratio	Lower	Upper
117	100		
119	100.2	75.6	115.6
121	29.1	10.7	50.7

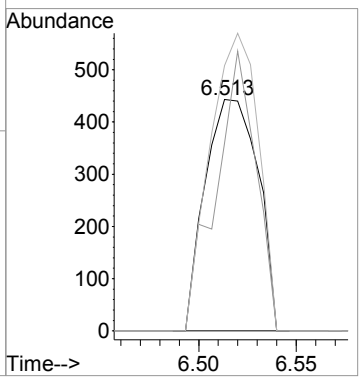


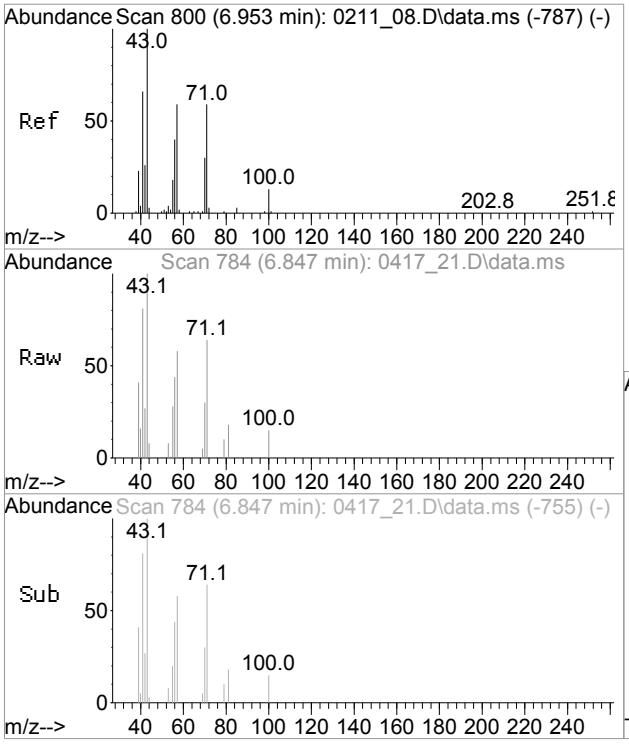


#39
Trichloroethene
Concen: Below Cal
RT: 6.513 min Scan# 734
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:130 Resp: 835

Ion	Ratio	Lower	Upper
130	100		
132	91.4	80.7	121.1
95	117.7	69.5	104.3#

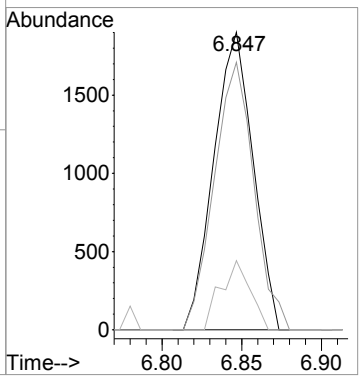


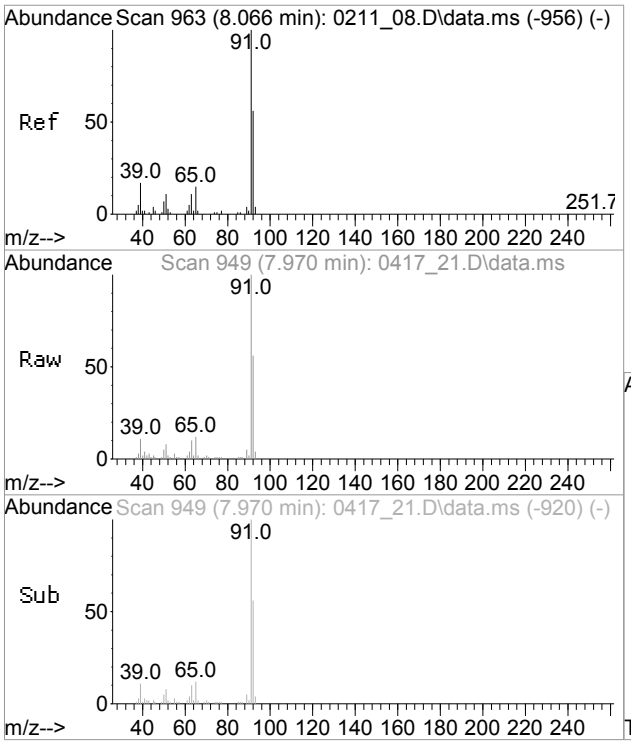


#43
Heptane
Concen: 0.34 ppbv
RT: 6.847 min Scan# 784
Delta R.T. -0.007 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 71 Resp: 3260

Ion	Ratio	Lower	Upper
71	100		
57	90.7	74.5	111.7
100	17.5	23.8	35.6#

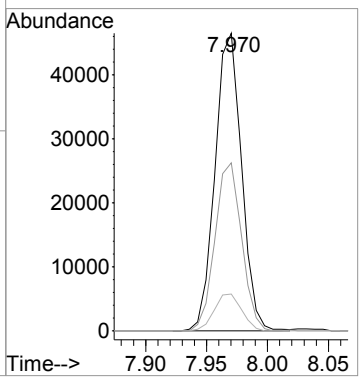


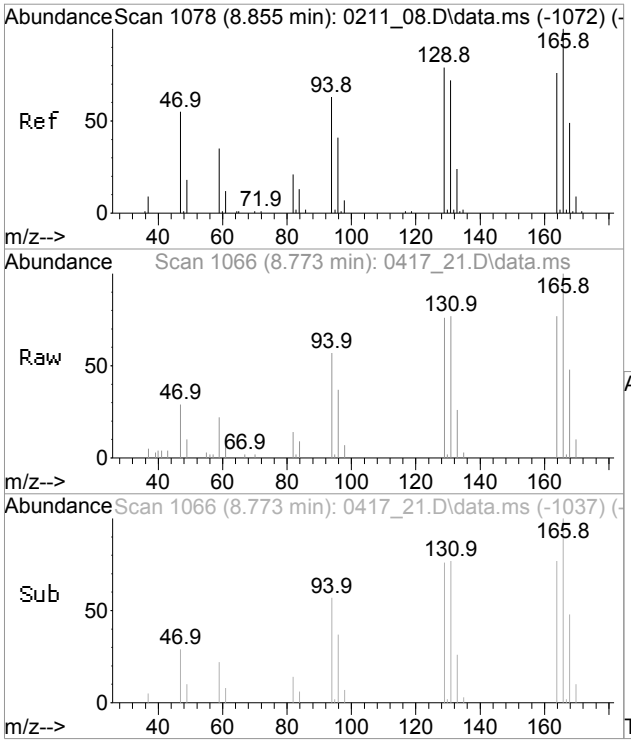


#48
Toluene
Concen: 1.64 ppbv
RT: 7.970 min Scan# 949
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 91 Resp: 70058

Ion	Ratio	Lower	Upper
91	100		
92	56.7	48.5	72.7
65	12.8	10.1	15.1

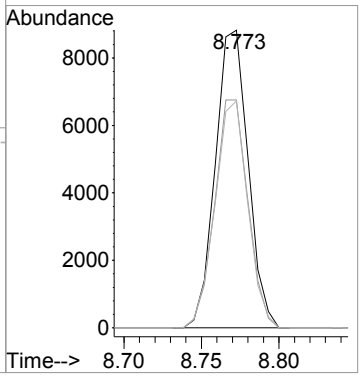


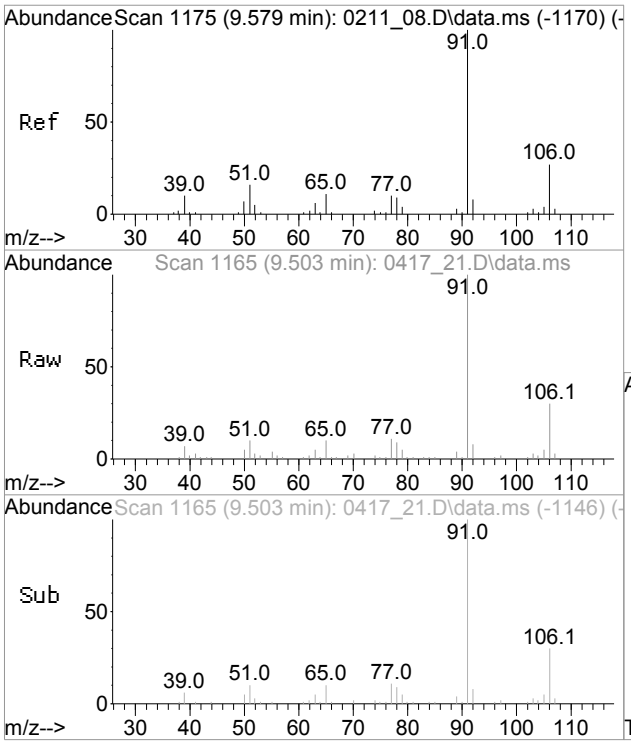


#52
Tetrachloroethene
Concen: 0.51 ppbv
RT: 8.773 min Scan# 1066
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:166 Resp: 12967

Ion	Ratio	Lower	Upper
166	100		
164	77.8	63.1	94.7
129	76.0	48.7	73.1#

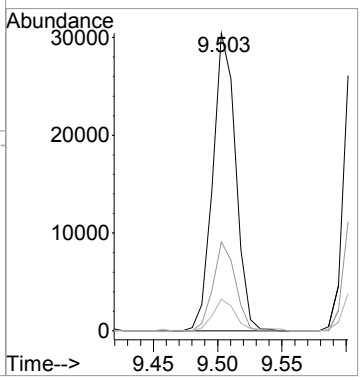


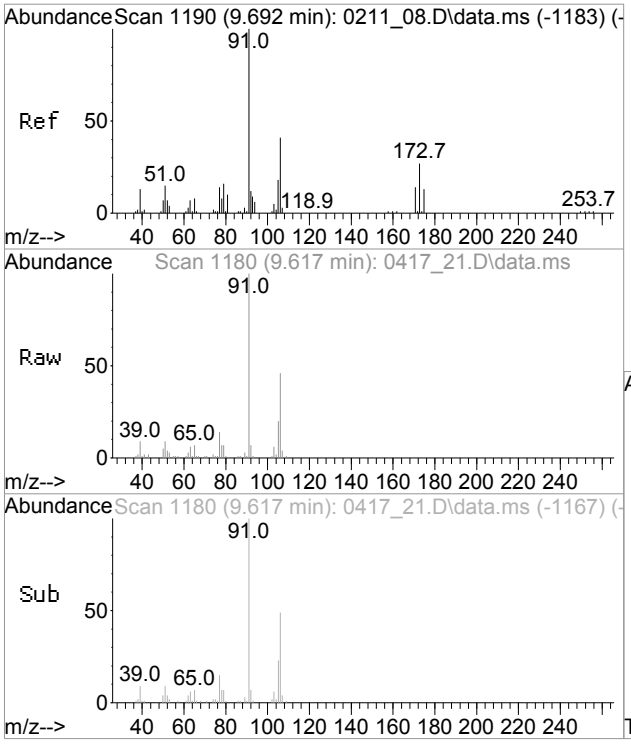


#56
Ethylbenzene
Concen: 0.71 ppbv
RT: 9.503 min Scan# 1165
Delta R.T. -0.008 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 91 Resp: 37876

Ion	Ratio	Lower	Upper
91	100		
106	29.0	11.8	51.8
77	11.0	0.0	29.3

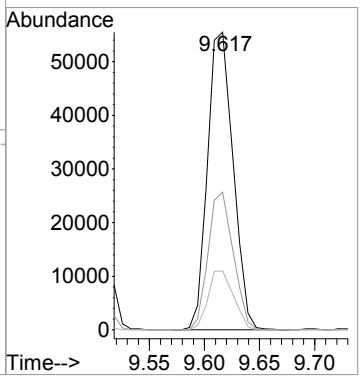


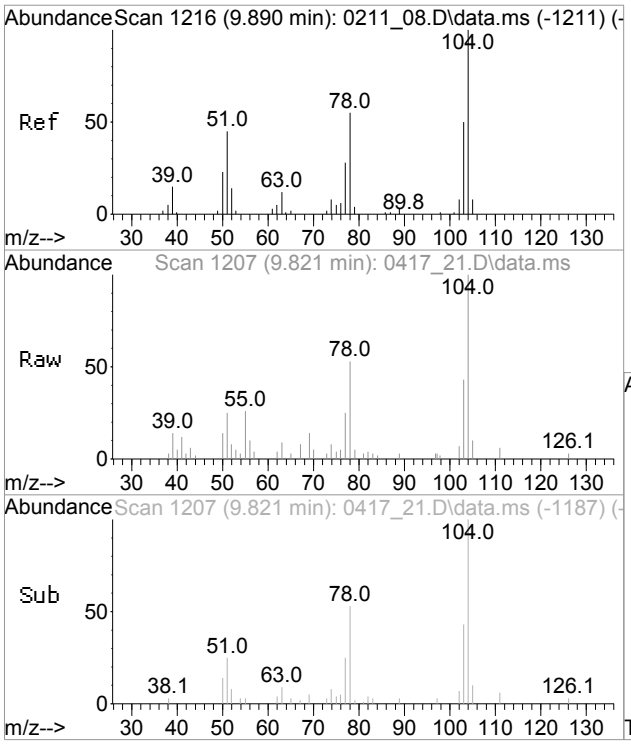


#57
m,p-Xylene
Concen: 1.95 ppbv
RT: 9.617 min Scan# 1180
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 91 Resp: 89486

Ion	Ratio	Lower	Upper
91	100		
106	45.3	38.8	58.2
105	19.7	17.0	25.6

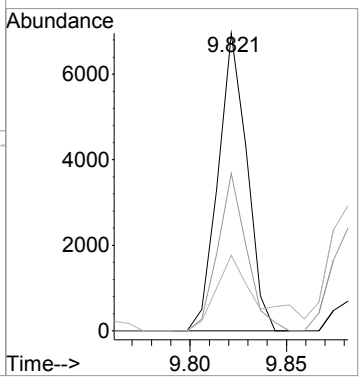


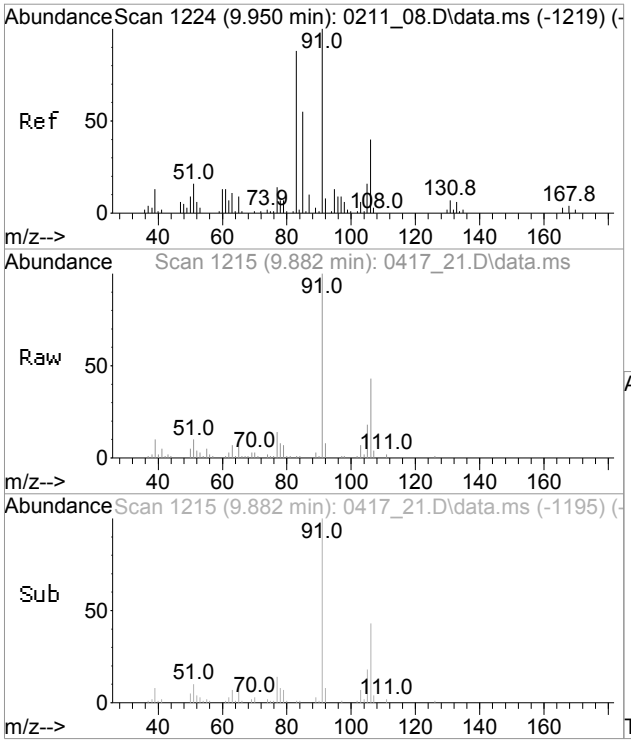


#59
Styrene
Concen: 0.25 ppbv
RT: 9.821 min Scan# 1207
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:104 Resp: 7242

Ion	Ratio	Lower	Upper
104	100		
78	53.1	36.4	54.6
51	38.1	20.2	30.2#

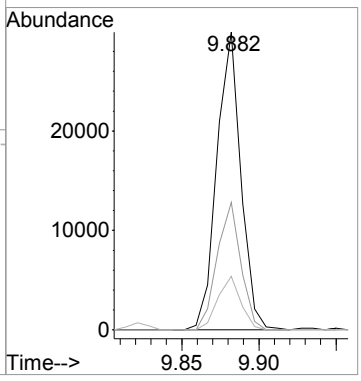


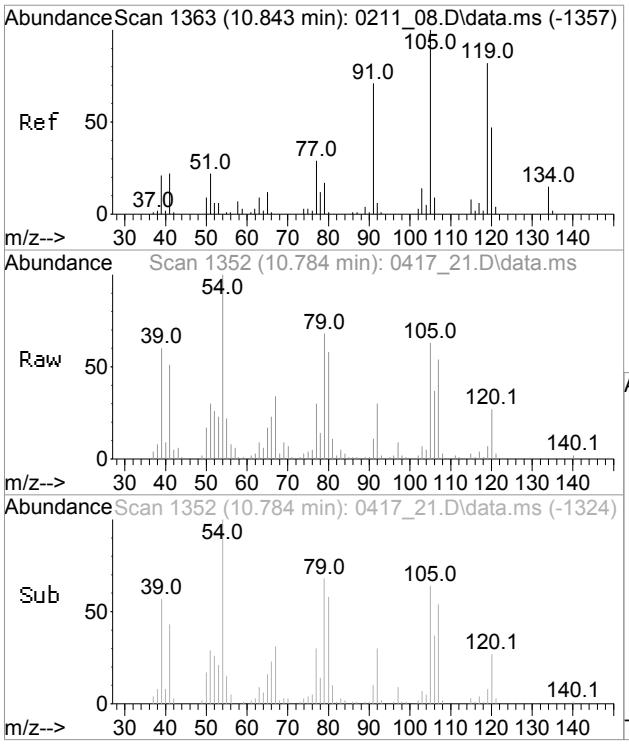


#61
o-Xylene
Concen: 0.74 ppbv
RT: 9.882 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 91 Resp: 32348

Ion	Ratio	Lower	Upper
91	100		
106	42.2	39.1	58.7
105	17.3	15.2	22.8

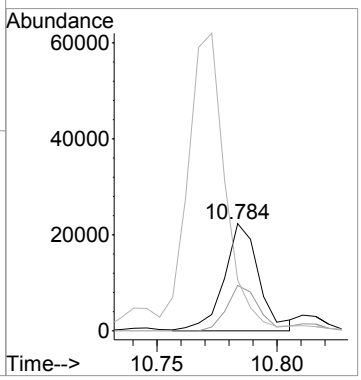


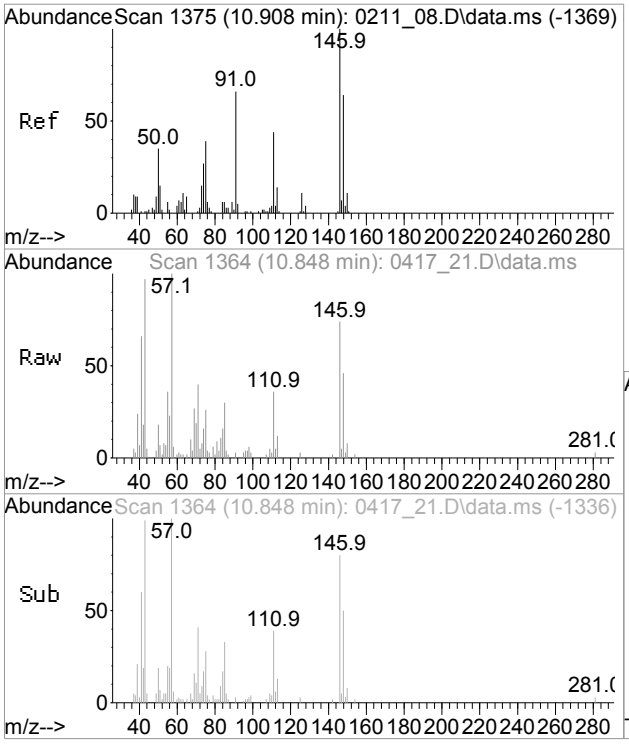


#68
1,2,4-Trimethylbenzene
Concen: 0.42 ppbv
RT: 10.784 min Scan# 1352
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:105 Resp: 22488

Ion	Ratio	Lower	Upper
105	100		
120	39.6	46.6	70.0#
77	321.0	18.8	28.2#

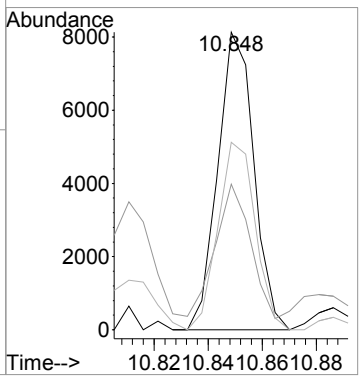


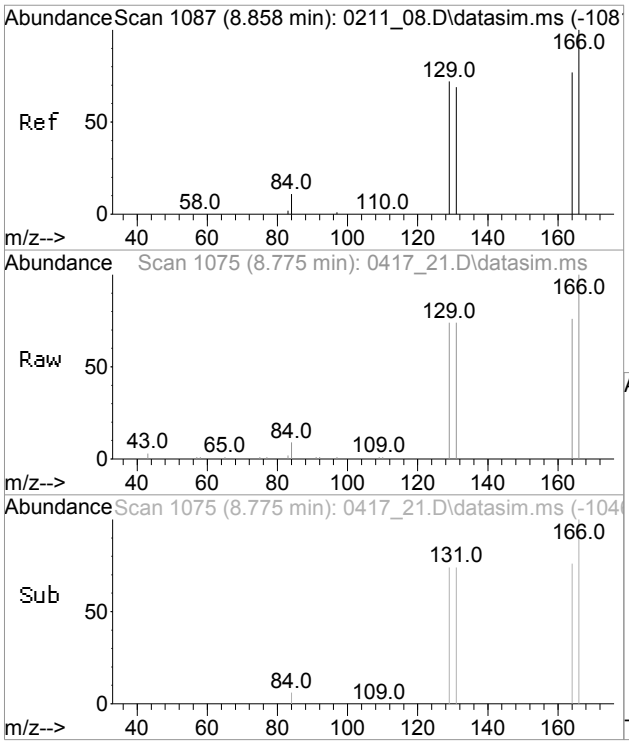


#71
1,3-Dichlorobenzene
Concen: 0.21 ppbv
RT: 10.848 min Scan# 1364
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:146 Resp: 7543

Ion	Ratio	Lower	Upper
146	100		
111	44.3	26.8	40.2#
148	65.3	51.8	77.8

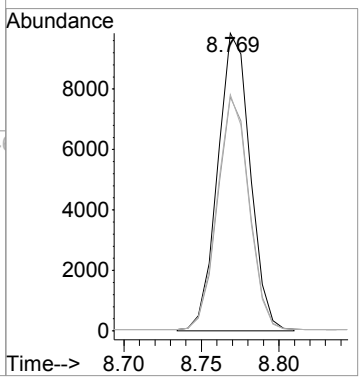


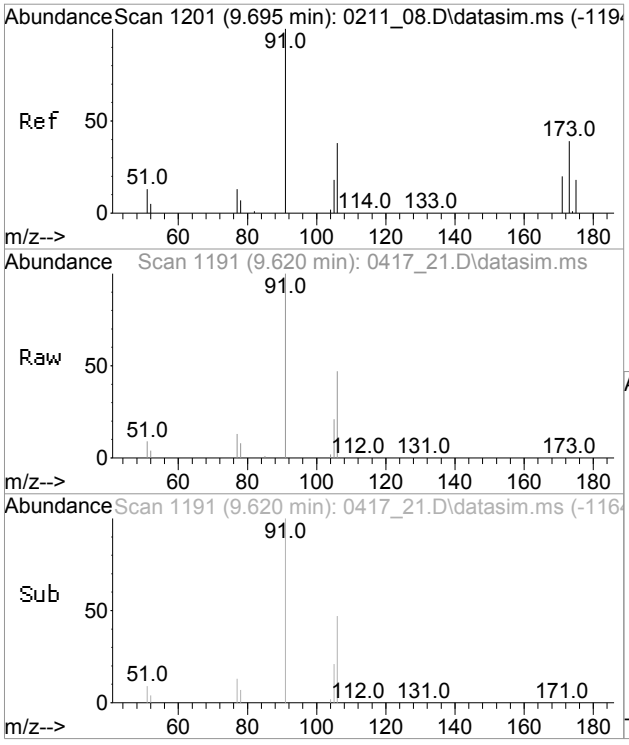


#102
Tetrachloroethene(sim)
Concen: 0.63 ppbv
RT: 8.773 min Scan# 1075
Delta R.T. -0.003 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion:166 Resp: 12967

Ion	Ratio	Lower	Upper
166	100		
164	77.8	58.9	98.9
129	76.0	40.9	80.9

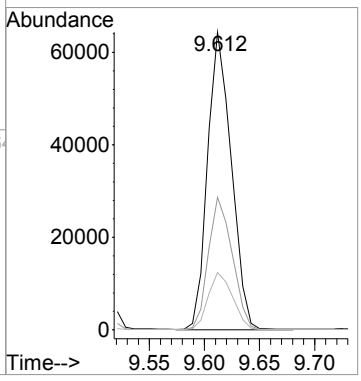




#106
m,p-Xylene(sim)
Concen: 2.09 ppbv
RT: 9.617 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2017 8:26 pm

Tgt Ion: 91 Resp: 89486

Ion	Ratio	Lower	Upper
91	100		
106	45.3	43.6	53.3
105	19.7	17.0	25.6



AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 BLANK

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 BL

Canister: BL Lab File ID: 0417_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 BLANK

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 BL

Canister: BL Lab File ID: 0417_06.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_06.D
Acq On : 17 Apr 2017 12:11 pm
Operator : Keith
Client ID : BY04726 BLANK
Lab ID : BY04726 BLANK
ALS Vial : 10 Sample Multiplier: 1

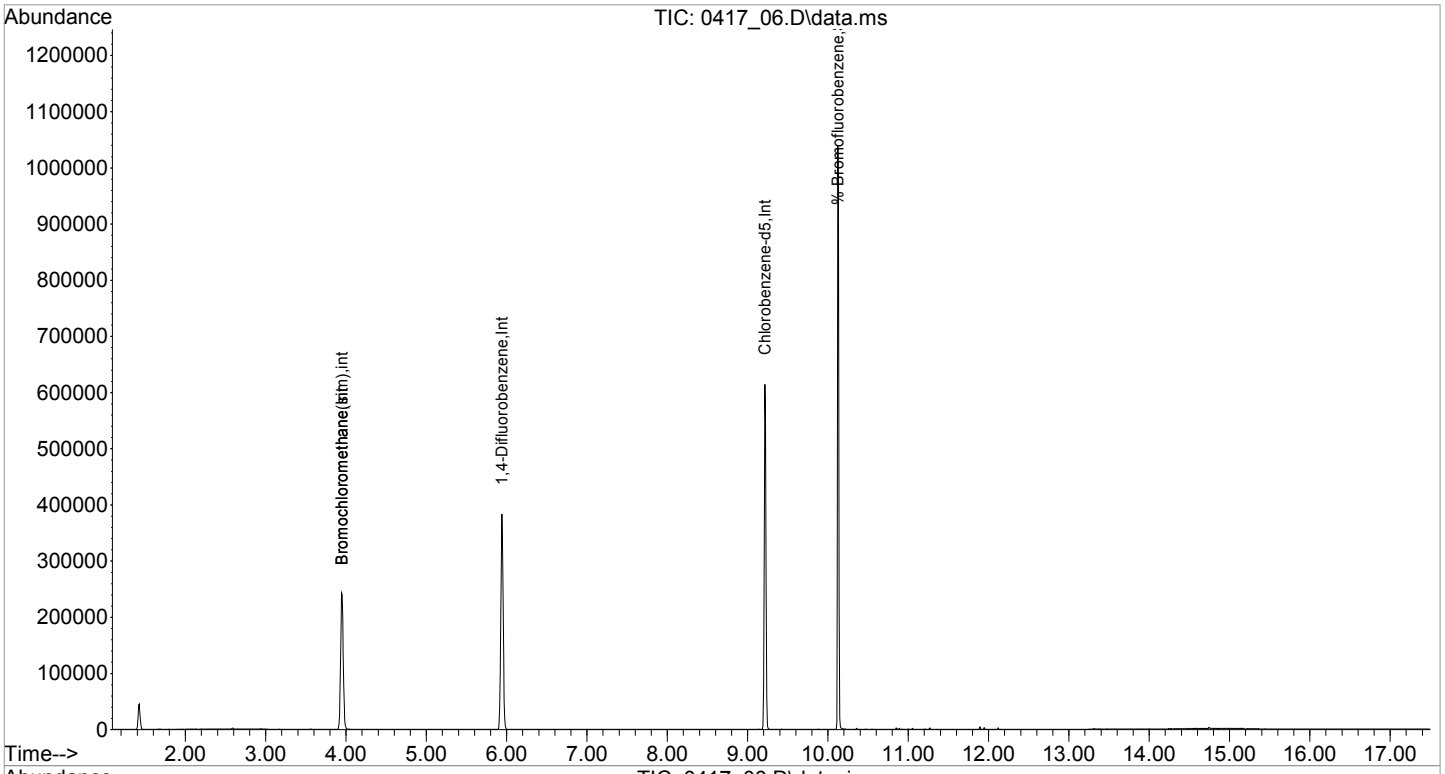
Quant Time: Apr 17 15:03:30 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

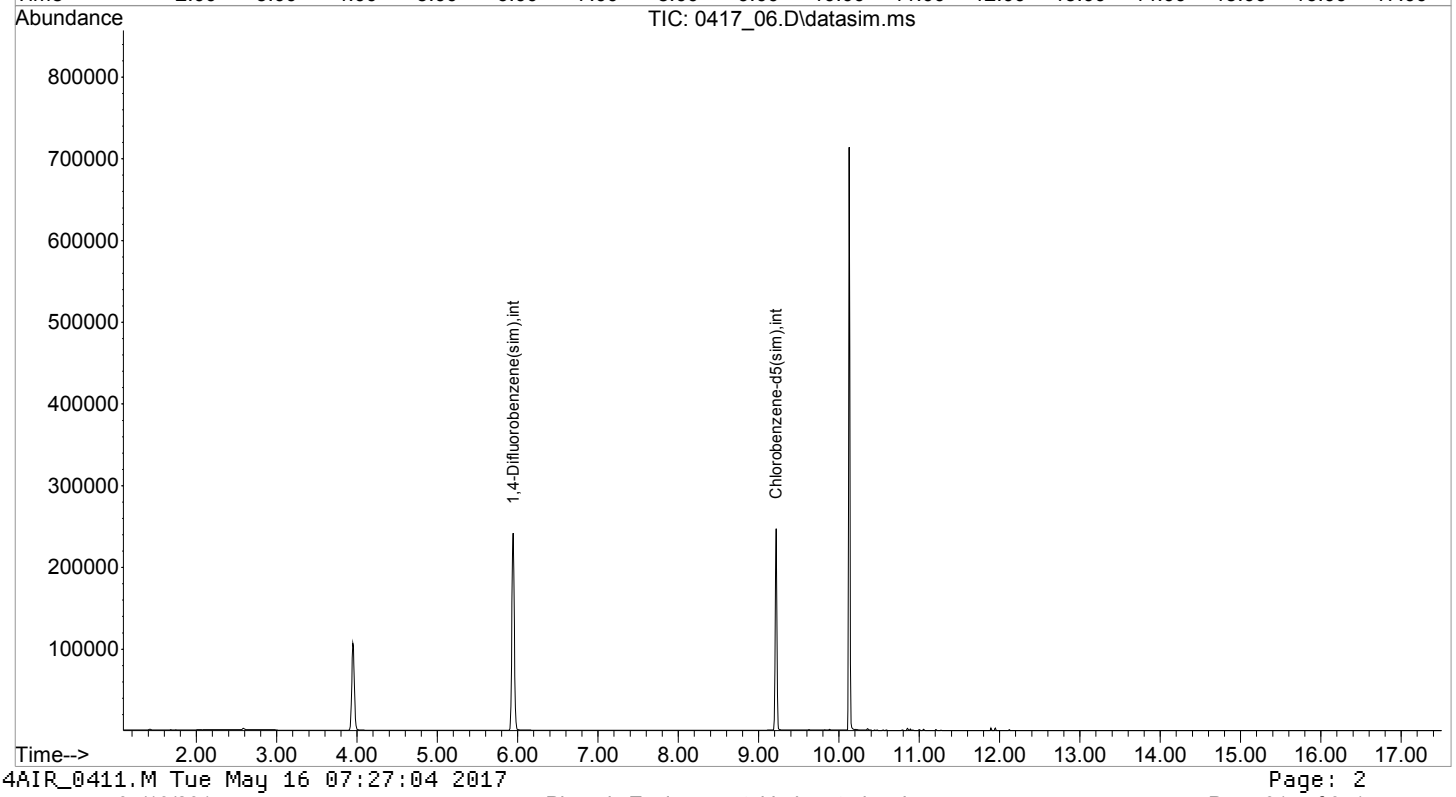
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.951	130	103133	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.941	114	331020	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	152139	10.000	ng		0.00
80) Bromochloromethane(sim)	3.951	130	103133	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.944	114	359028	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.218	82	160418	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.125	95	222899	11.148	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.50%				
Target Compounds							Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_06.D
Acq On : 17 Apr 2017 12:11 pm
Operator : Keith
Client ID : BY04726 BLANK
Lab ID : BY04726 BLANK
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 15:03:30 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration





AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 DUP

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 DUP

Canister: 19930 Lab File ID: 0417_22.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.320		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	10.0	S	0.531	0.531	r
67-64-1	Acetone	10.0	S	0.421	0.421	r
67-63-0	Isopropylalcohol	6.00	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.660		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	3.50		0.339	0.339	r
110-54-3	Hexane	1.20	S	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	1.80		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.320		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.50		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.430		0.037	0.037	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.660		0.230	0.230	r
179601-23-1	m,p-Xylene	1.80		0.230	0.230	r
100-42-5	Styrene	0.250		0.235	0.235	r
95-47-6	o-Xylene	0.660		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.370		0.204	0.204	r
541-73-1	1,3-Dichlorobenzene	0.180		0.166	0.166	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: BY04726 DUP

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: BY04726 DUP

Canister: 19930 Lab File ID: 0417_22.D

Instrument: CHEM24 Column: zb-1ms Date Received: 04/14/17

Purge Volume 200 (cc) Date Analyzed: 04/17/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.180		0.178	0.178	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.069		0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_22.D
Acq On : 17 Apr 2017 9:19 pm
Operator : Keith
Client ID : BY04726 DUP
Lab ID : BY04726 DUP
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 18 09:04:24 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration

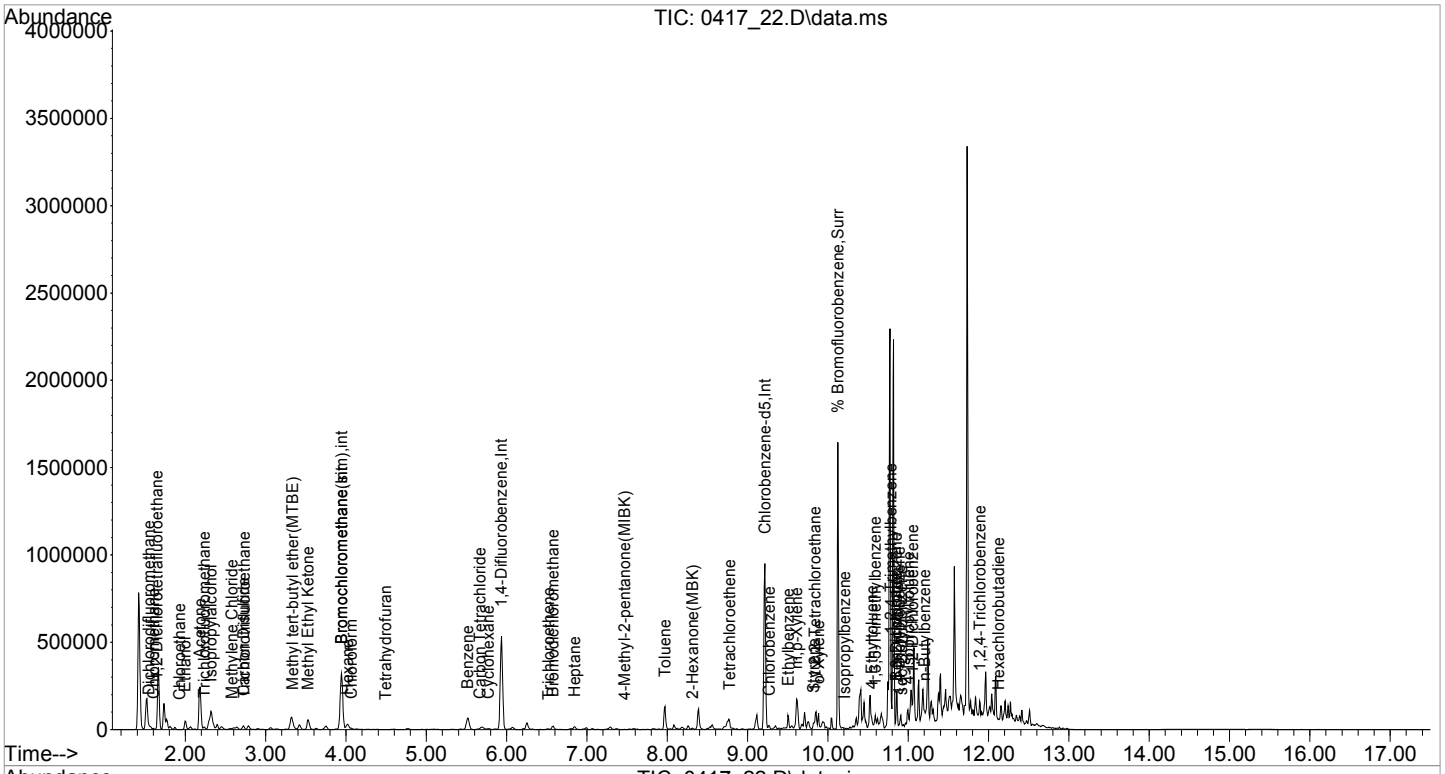
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	3.945	130	135120	10.000	ng		0.00
36) 1,4-Difluorobenzene	5.934	114	468748	10.000	ng		0.00
53) Chlorobenzene-d5	9.215	82	235083	10.000	ng		0.00
80) Bromochloromethane(sim)	3.945	130	135120	10.000	ng		0.00
93) 1,4-Difluorobenzene(sim)	5.937	114	505866	10.000	ng	#	0.00
103) Chlorobenzene-d5(sim)	9.210	82	242653	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.124	95	323159	10.460	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.60%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.545	85	16927	0.321	ppbv		99
10) Ethanol	1.994	45	50002	9.961	ppbv		96
12) Acetone	2.181	43	230894	9.953	ppbv		91
13) Trichlorofluoromethane	2.232	101	10347	0.180	ppbv		99
14) Isopropylalcohol	2.316	45	124273	6.028	ppbv		95
20) Carbon Disulfide	2.723	76	24657	0.659	ppbv#		92
25) Methyl Ethyl Ketone	3.524	43	76332	3.492	ppbv		94
27) Hexane	4.018	57	17766	1.157	ppbv		93
33) Benzene	5.512	78	72648	1.813	ppbv		98
34) Carbon Tetrachloride	5.667	117	2949	0.060	ppbv		95
43) Heptane	6.847	71	3638	0.319	ppbv#		93
48) Toluene	7.970	91	77514	1.532	ppbv		97
52) Tetrachloroethene	8.772	166	13027	0.432	ppbv#		91
56) Ethylbenzene	9.503	91	40131	0.656	ppbv		96
57) m,p-Xylene	9.609	91	96852	1.827	ppbv		96
59) Styrene	9.821	104	8122	0.245	ppbv#		87
61) o-Xylene	9.882	91	33138	0.657	ppbv		92
68) 1,2,4-Trimethylbenzene	10.783	105	23035	0.372	ppbv#		1
71) 1,3-Dichlorobenzene	10.848	146	7689	0.185	ppbv#		91
84] Trichlorofluoromethane...	2.232	101	10347	0.176	ppbv		100
91] Carbon Tetrachloride(sim)	5.663	117	3251	0.069	ppbv		100
102] Tetrachloroethene(sim)	8.772	166	13027	0.543	ppbv		91
106] m,p-Xylene(sim)	9.609	91	96852	1.972	ppbv		96
111] 1,3-Dichlorobenzene(sim)	10.851	146	8924	0.202	ppbv#		94

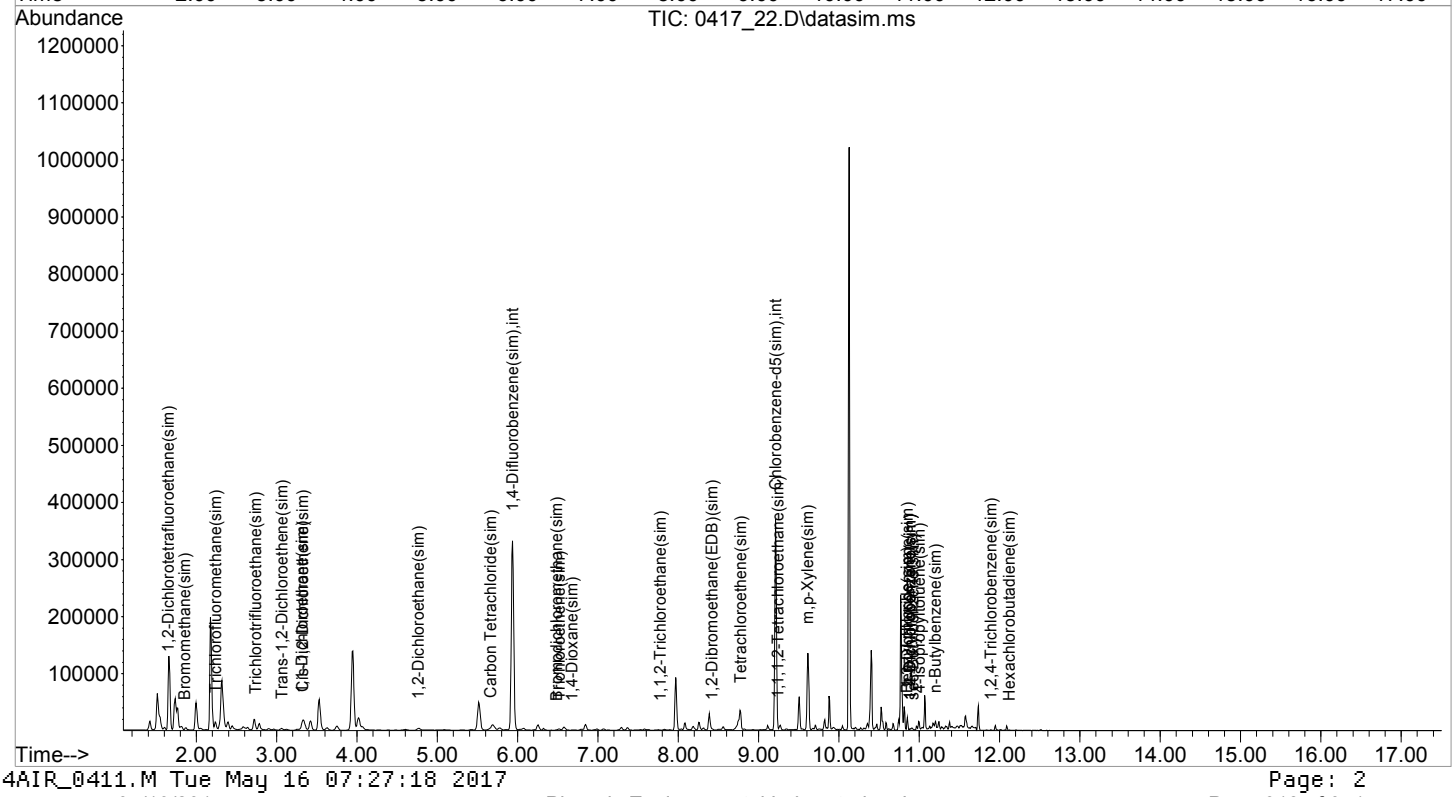
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

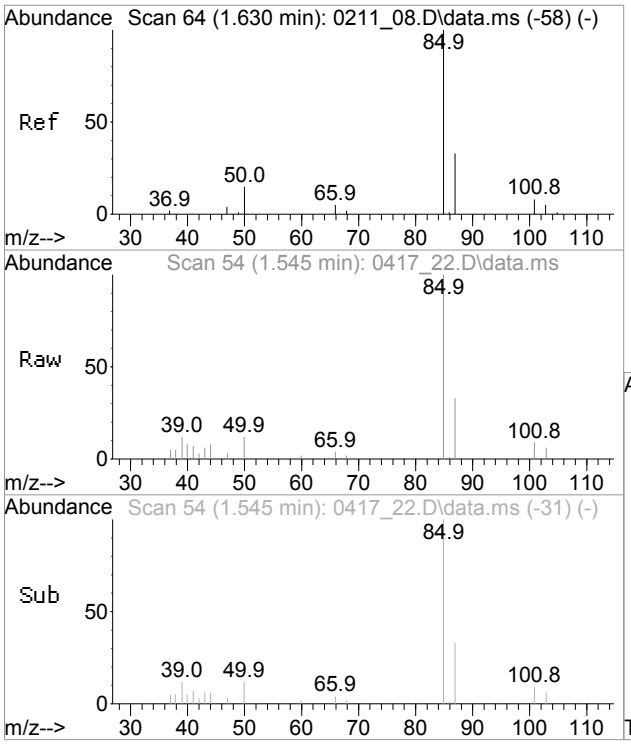
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\04APR\17\
Data File : 0417_22.D
Acq On : 17 Apr 2017 9:19 pm
Operator : Keith
Client ID : BY04726 DUP
Lab ID : BY04726 DUP
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 18 09:04:24 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0411.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 17 08:55:57 2017
Response via : Initial Calibration



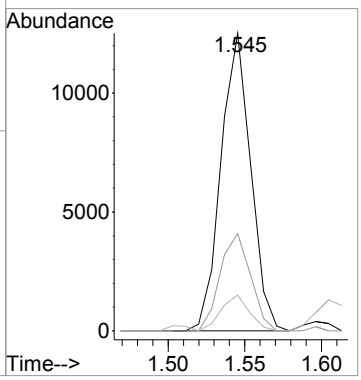


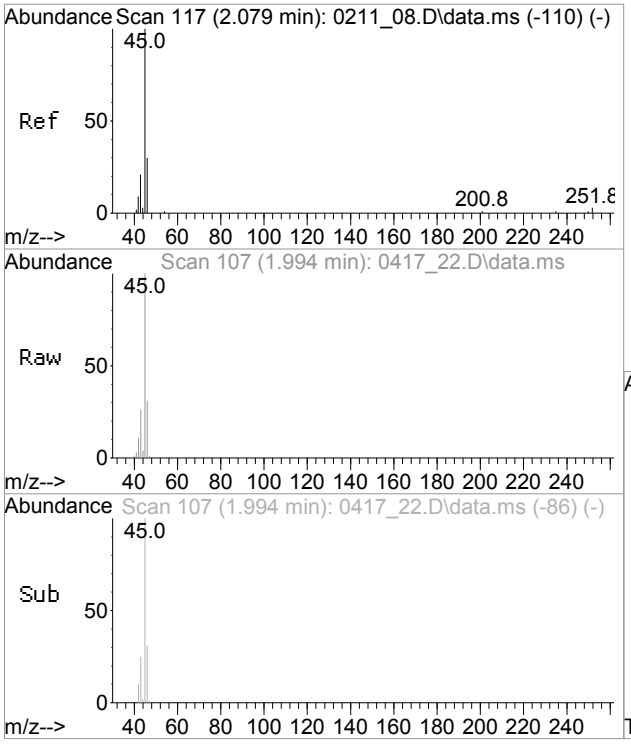


#3
Dichlorodifluoromethane
Concen: 0.32 ppbv
RT: 1.545 min Scan# 54
Delta R.T. -0.009 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 85 Resp: 16927

Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.1	39.1
50	12.6	10.0	15.0

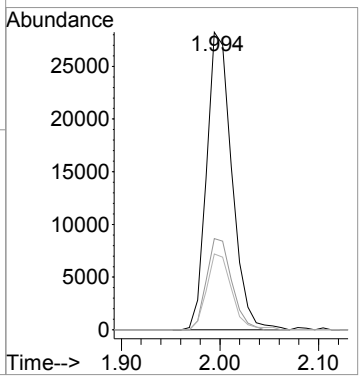


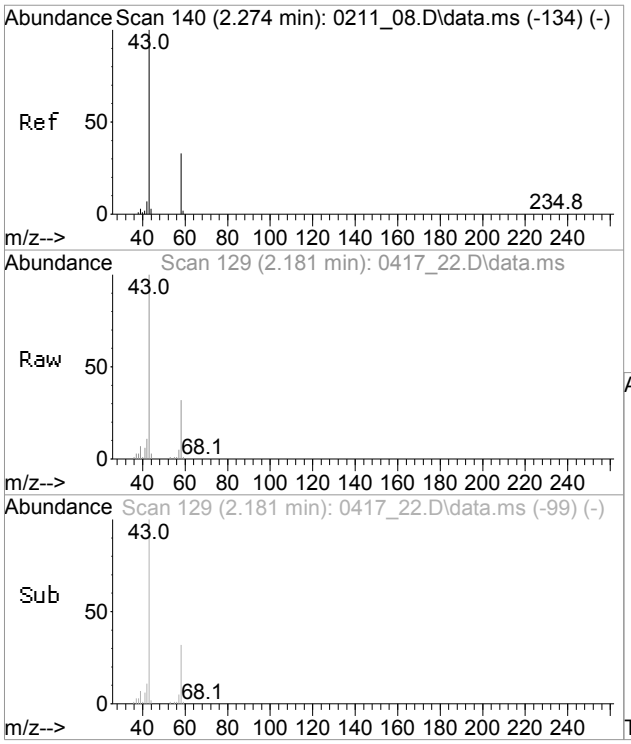


#10
Ethanol
Concen: 9.96 ppbv
RT: 1.994 min Scan# 107
Delta R.T. -0.026 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 45 Resp: 50002

Ion	Ratio	Lower	Upper
45	100		
46	30.6	25.7	38.5
43	25.4	17.7	26.5

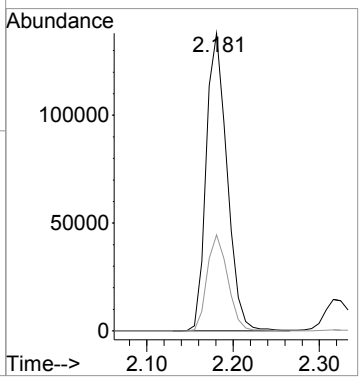


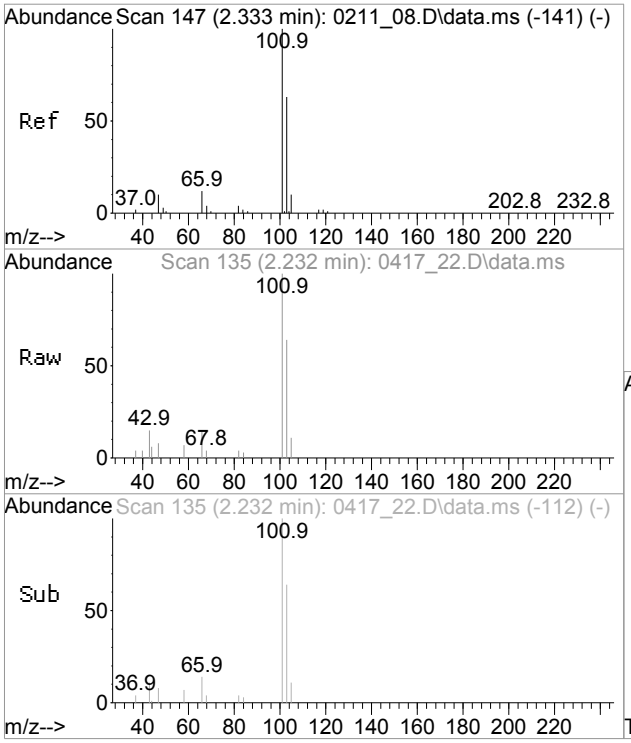


#12
Acetone
Concen: 9.95 ppbv
RT: 2.181 min Scan# 129
Delta R.T. -0.042 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 43 Resp: 230894

Ion	Ratio	Lower	Upper
43	100		
58	32.1	21.8	32.8

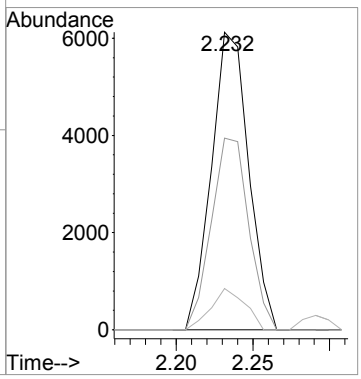


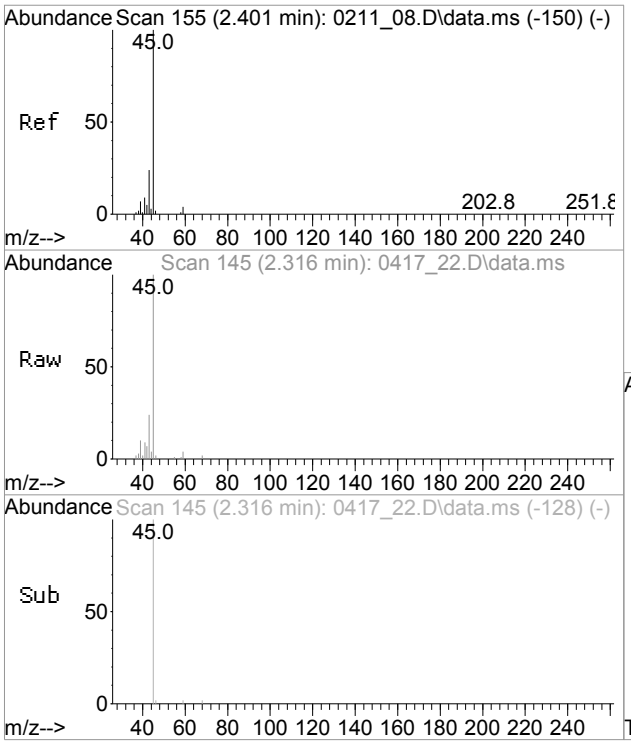


#13
Trichlorofluoromethane
Concen: 0.18 ppbv
RT: 2.232 min Scan# 135
Delta R.T. -0.009 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:101 Resp: 10347

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.5	77.3
66	12.8	8.7	13.1

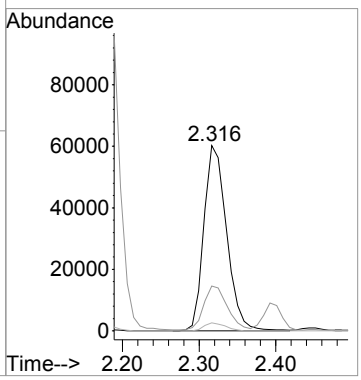


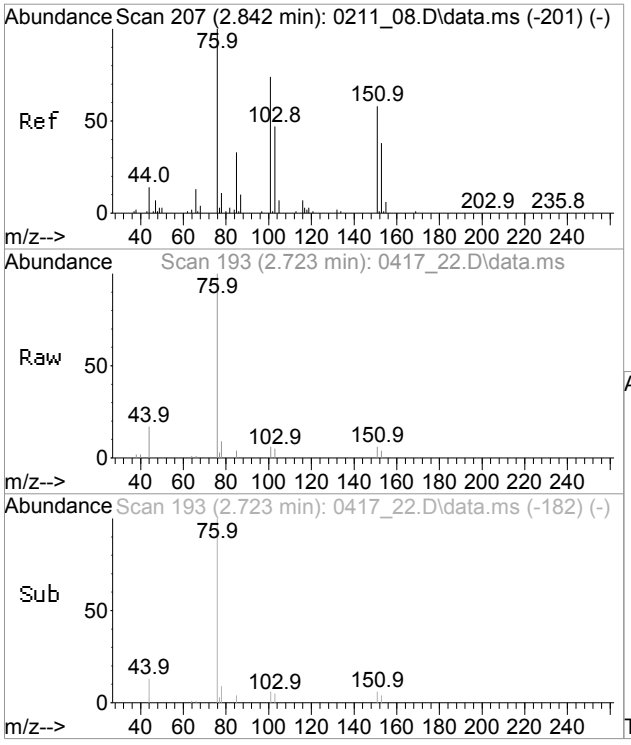


#14
Isopropylalcohol
Concen: 6.03 ppbv
RT: 2.316 min Scan# 145
Delta R.T. -0.059 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 45 Resp: 124273

Ion	Ratio	Lower	Upper
45	100		
43	24.4	17.3	25.9
59	4.0	3.0	4.6

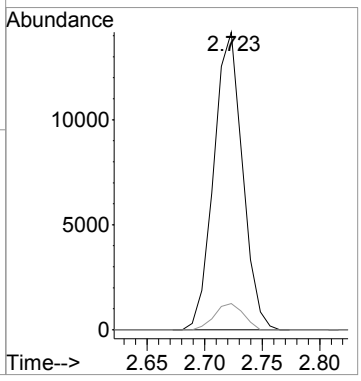


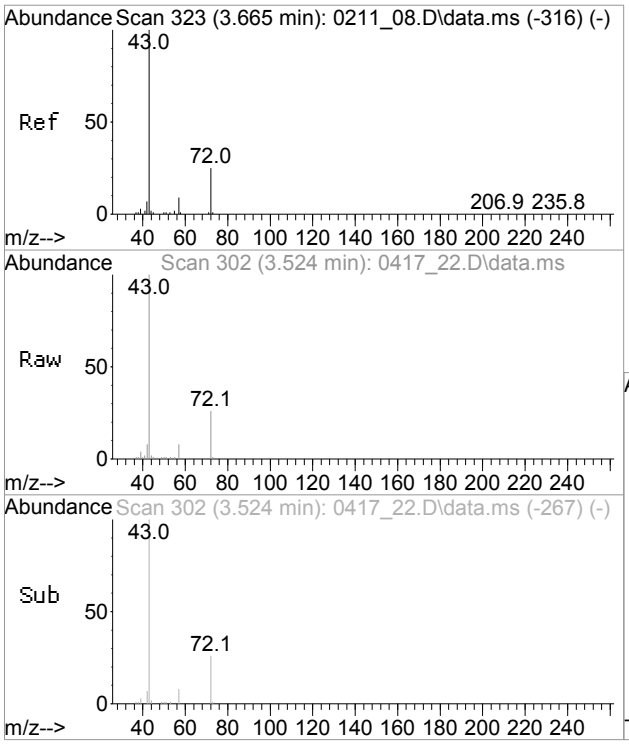


#20
Carbon Disulfide
Concen: 0.66 ppbv
RT: 2.723 min Scan# 193
Delta R.T. -0.009 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 76 Resp: 24657

Ion	Ratio	Lower	Upper
76	100		
78	8.9	9.7	14.5#

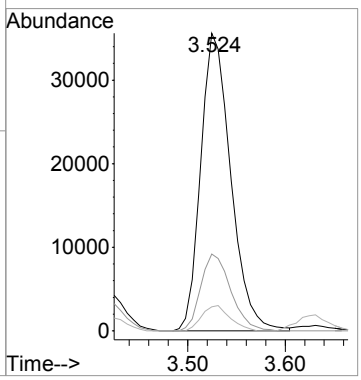


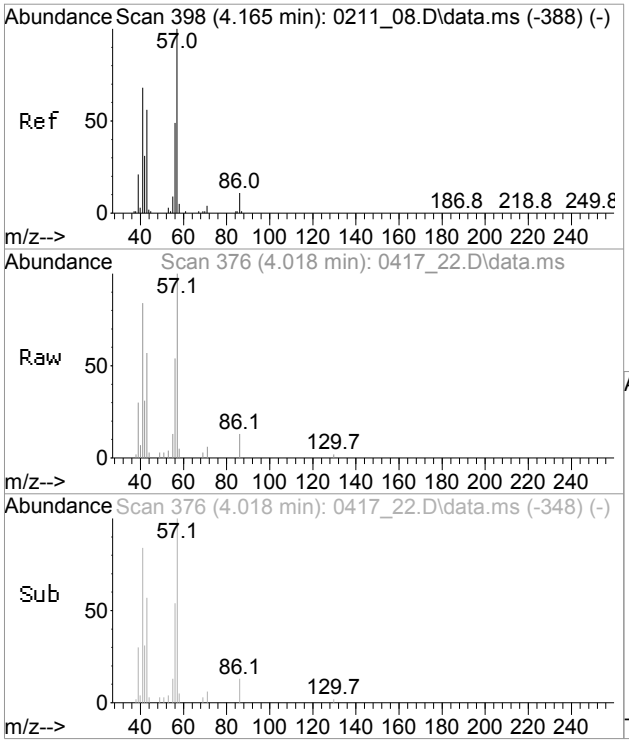


#25
Methyl Ethyl Ketone
Concen: 3.49 ppbv
RT: 3.524 min Scan# 302
Delta R.T. -0.067 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 43 Resp: 76332

Ion	Ratio	Lower	Upper
43	100		
72	25.8	17.7	26.5
57	8.0	5.9	8.9

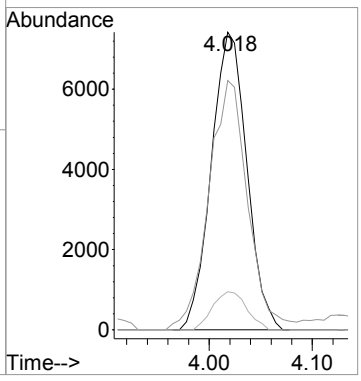


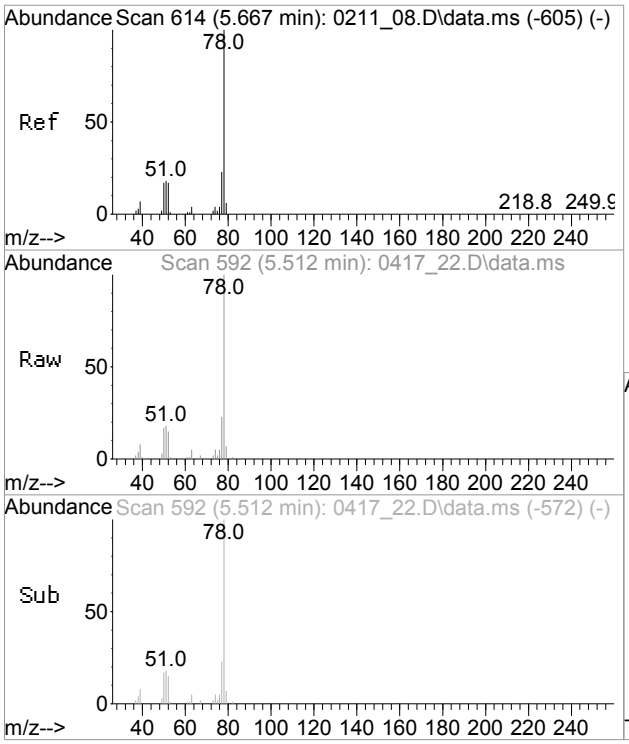


#27
Hexane
Concen: 1.16 ppbv
RT: 4.018 min Scan# 376
Delta R.T. -0.013 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 57 Resp: 17766

Ion	Ratio	Lower	Upper
57	100		
41	91.6	67.6	101.4
86	12.3	11.8	17.6

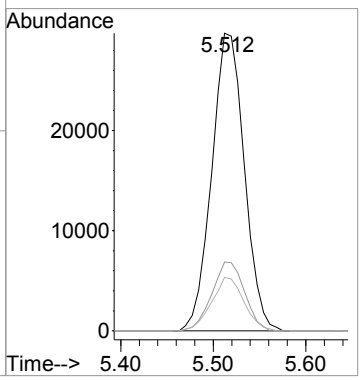


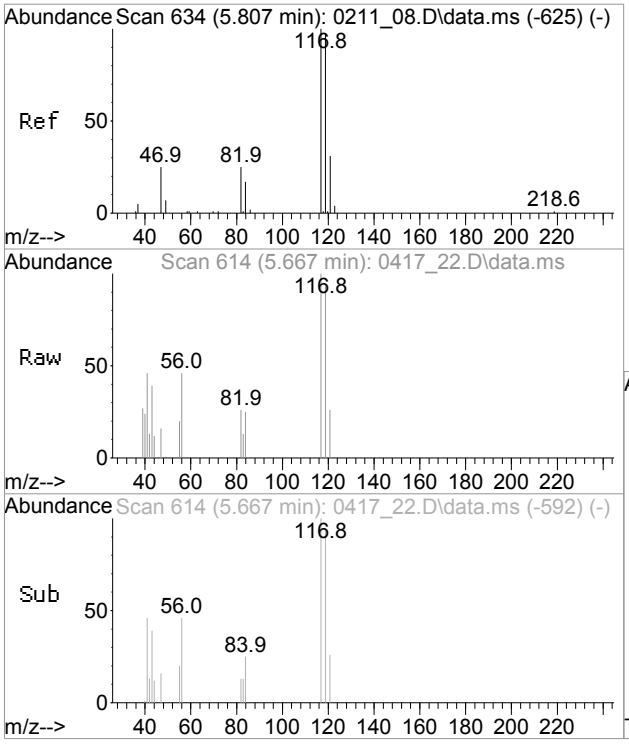


#33
Benzene
Concen: 1.81 ppbv
RT: 5.512 min Scan# 592
Delta R.T. -0.007 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 78 Resp: 72648

Ion	Ratio	Lower	Upper
78	100		
77	23.2	17.9	26.9
51	17.9	13.6	20.4

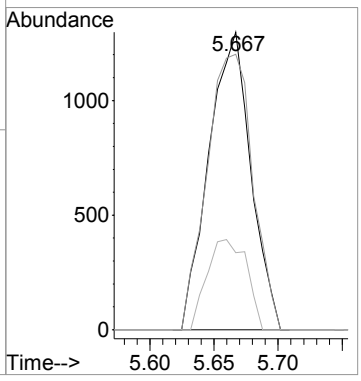


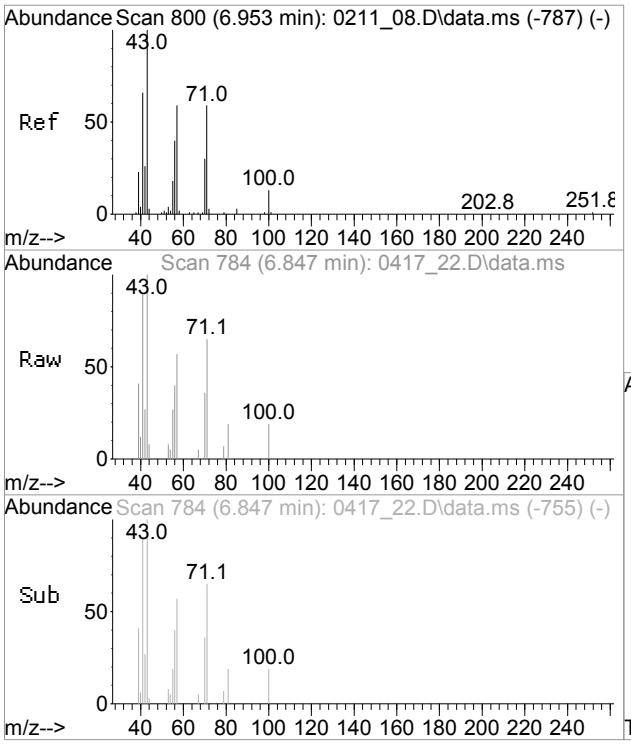


#34
Carbon Tetrachloride
Concen: Below Cal
RT: 5.667 min Scan# 614
Delta R.T. 0.007 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:117 Resp: 2949

Ion	Ratio	Lower	Upper
117	100		
119	101.6	75.6	115.6
121	28.8	10.7	50.7

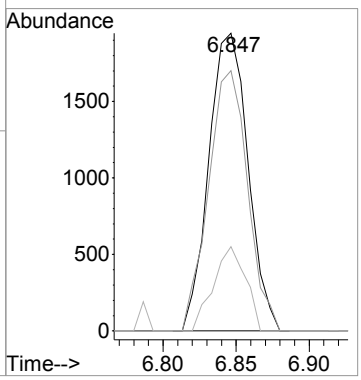


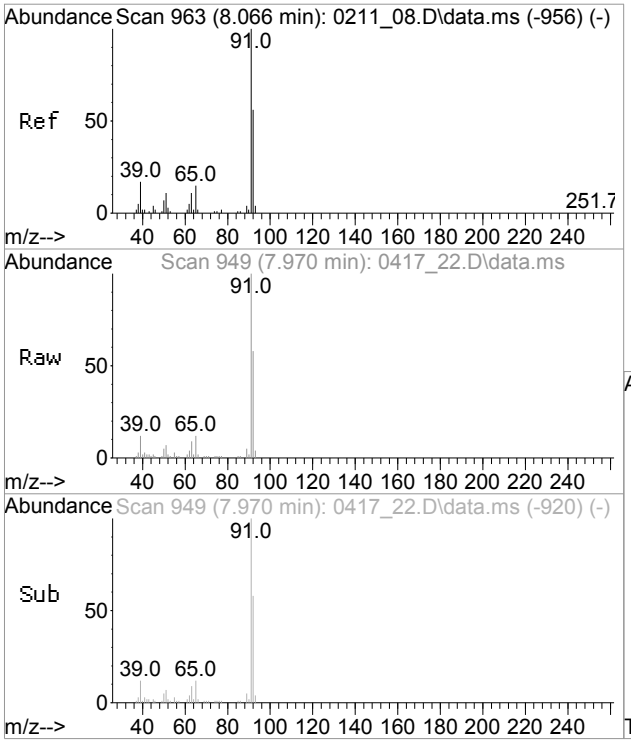


#43
Heptane
Concen: 0.32 ppbv
RT: 6.847 min Scan# 784
Delta R.T. -0.007 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 71 Resp: 3638

Ion	Ratio	Lower	Upper
71	100		
57	87.4	74.5	111.7
100	23.3	23.8	35.6#

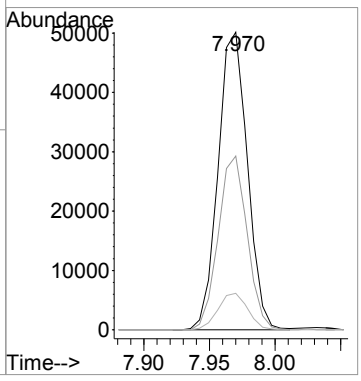


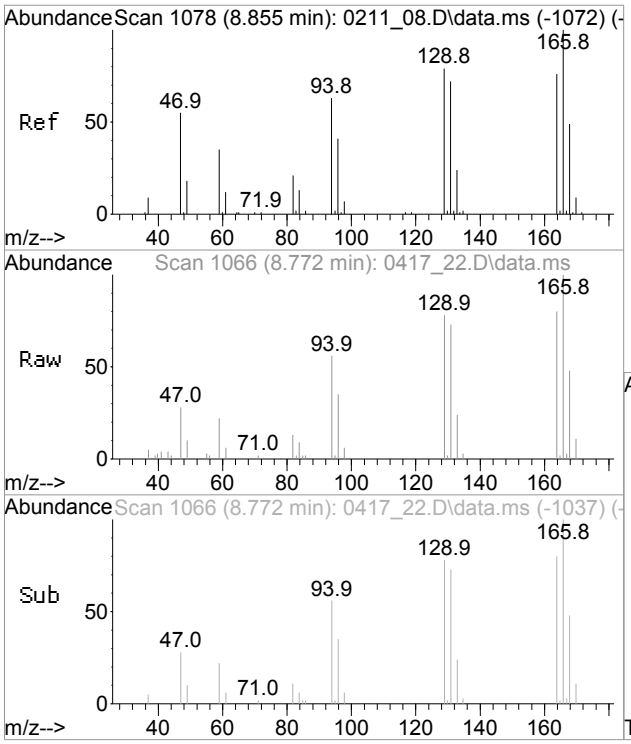


#48
Toluene
Concen: 1.53 ppbv
RT: 7.970 min Scan# 949
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 91 Resp: 77514

Ion	Ratio	Lower	Upper
91	100		
92	57.7	48.5	72.7
65	12.5	10.1	15.1

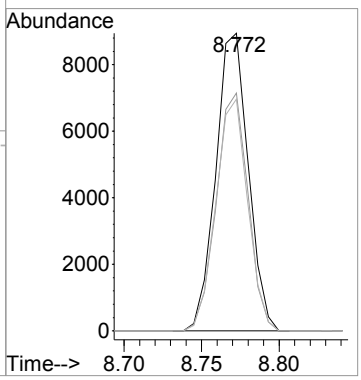


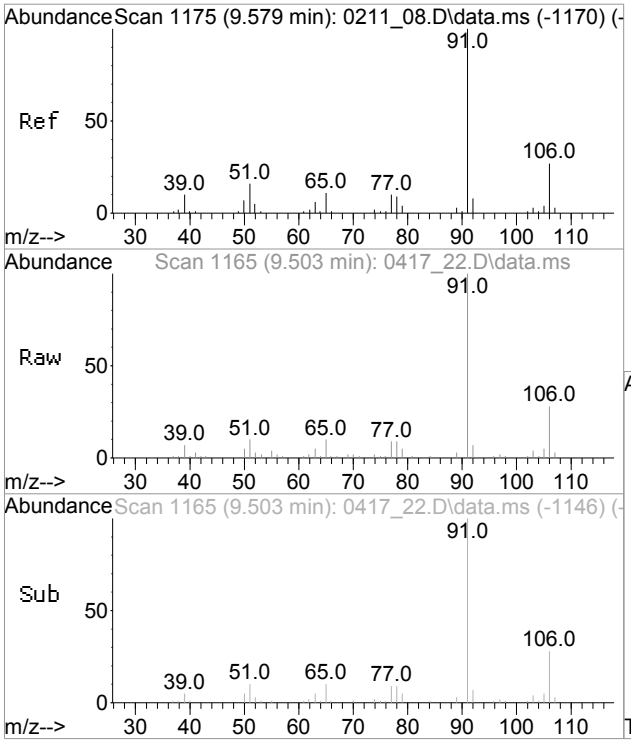


#52
Tetrachloroethene
Concen: 0.43 ppbv
RT: 8.772 min Scan# 1066
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:166 Resp: 13027

Ion	Ratio	Lower	Upper
166	100		
164	78.3	63.1	94.7
129	76.5	48.7	73.1#

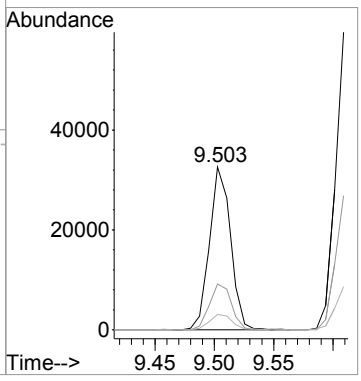


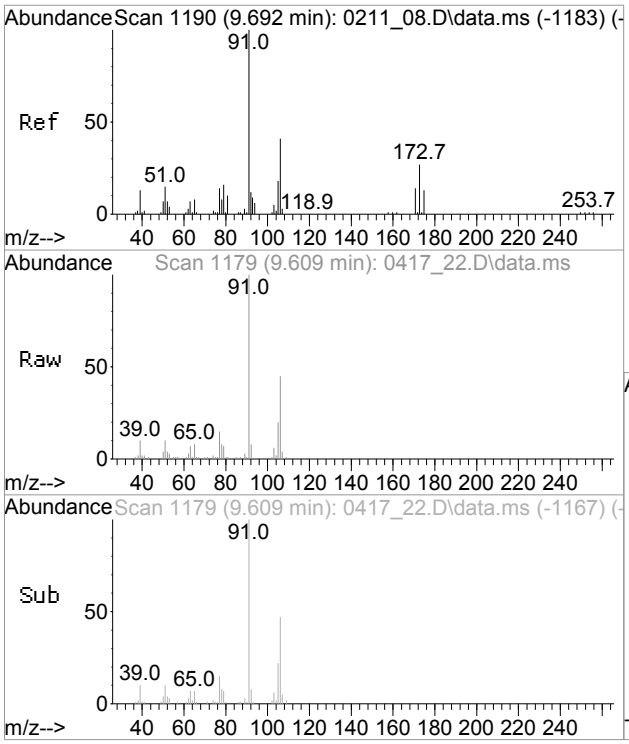


#56
Ethylbenzene
Concen: 0.66 ppbv
RT: 9.503 min Scan# 1165
Delta R.T. -0.008 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 91 Resp: 40131

Ion	Ratio	Lower	Upper
91	100		
106	29.2	11.8	51.8
77	10.4	0.0	29.3

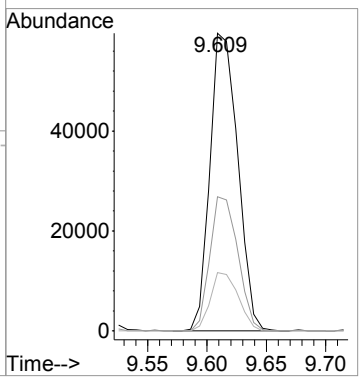


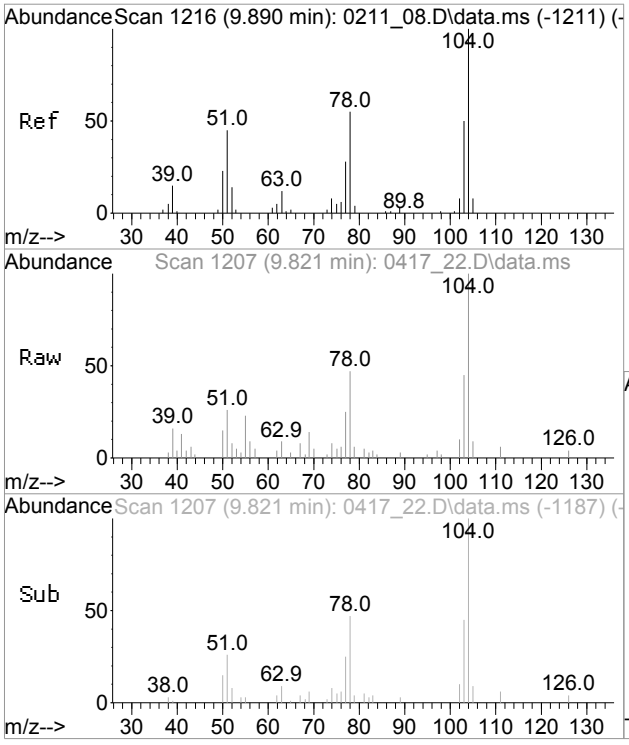


#57
m,p-Xylene
Concen: 1.83 ppbv
RT: 9.609 min Scan# 1179
Delta R.T. -0.008 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 91 Resp: 96852

Ion	Ratio	Lower	Upper
91	100		
106	45.3	38.8	58.2
105	19.7	17.0	25.6

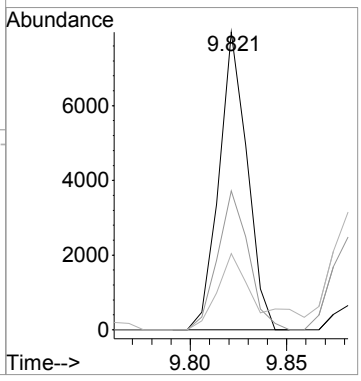


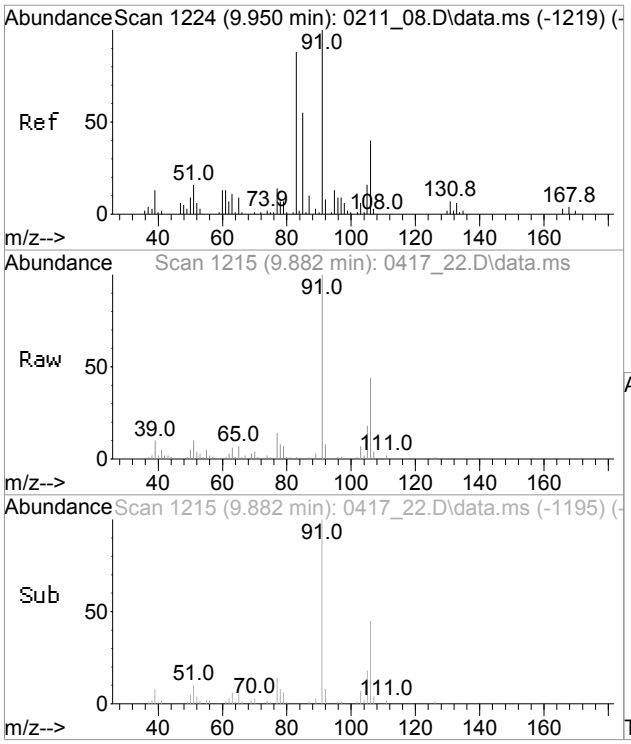


#59
Styrene
Concen: 0.24 ppbv
RT: 9.821 min Scan# 1207
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:104 Resp: 8122

Ion	Ratio	Lower	Upper
104	100		
78	51.2	36.4	54.6
51	36.1	20.2	30.2#

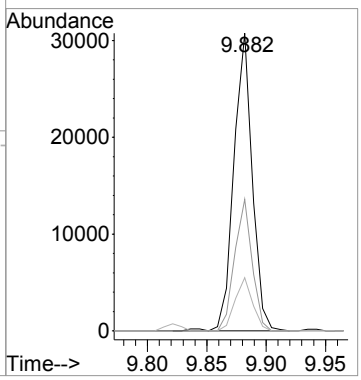


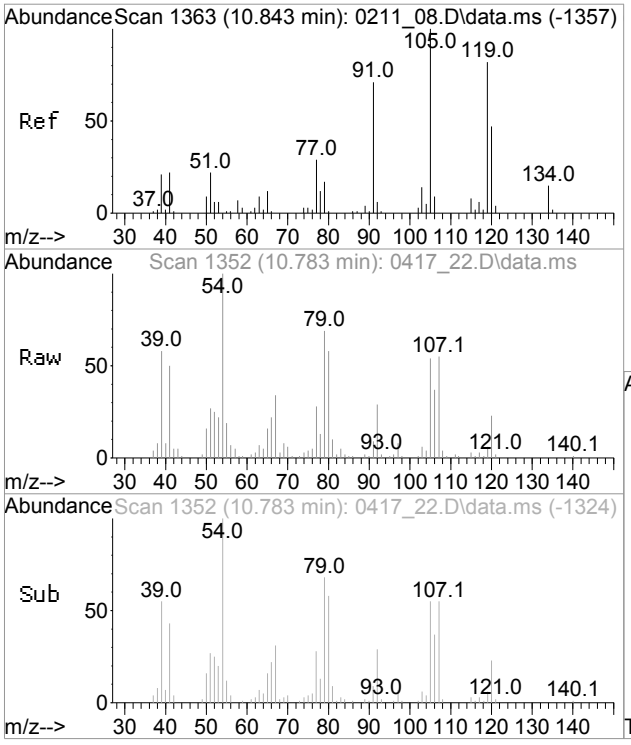


#61
o-Xylene
Concen: 0.66 ppbv
RT: 9.882 min Scan# 1215
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 91 Resp: 33138

Ion	Ratio	Lower	Upper
91	100		
106	42.1	39.1	58.7
105	17.1	15.2	22.8

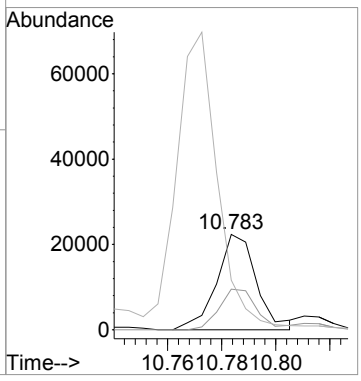


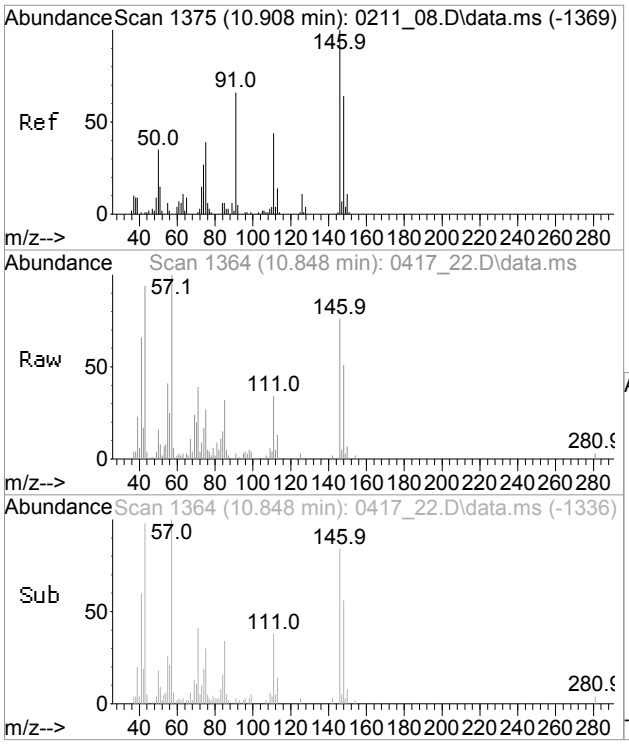


#68
1,2,4-Trimethylbenzene
Concen: 0.37 ppbv
RT: 10.783 min Scan# 1352
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:105 Resp: 23035

Ion	Ratio	Lower	Upper
105	100		
120	40.8	46.6	70.0#
77	347.0	18.8	28.2#

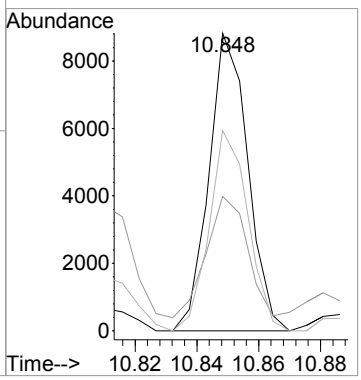


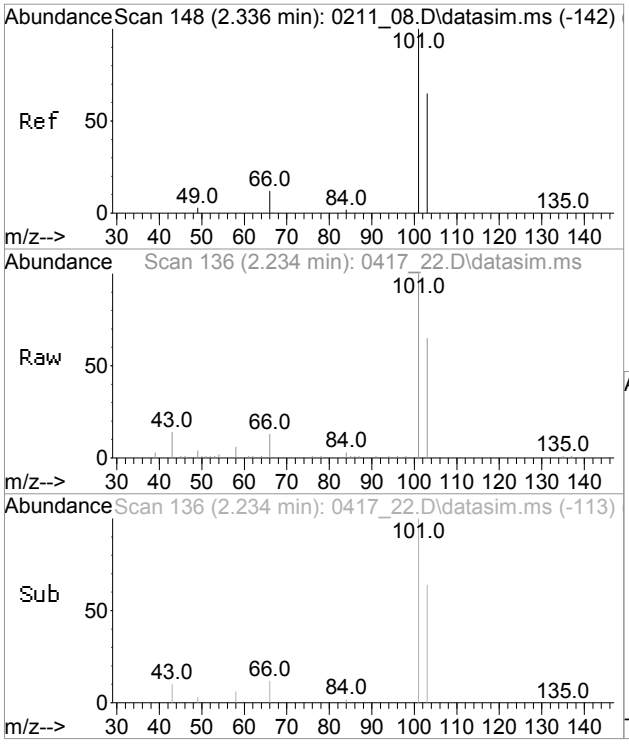


#71
1,3-Dichlorobenzene
Concen: 0.18 ppbv
RT: 10.848 min Scan# 1364
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:146 Resp: 7689

Ion	Ratio	Lower	Upper
146	100		
111	44.9	26.8	40.2#
148	67.2	51.8	77.8

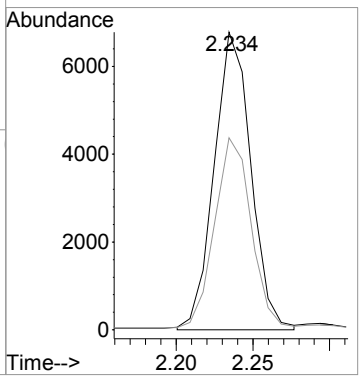


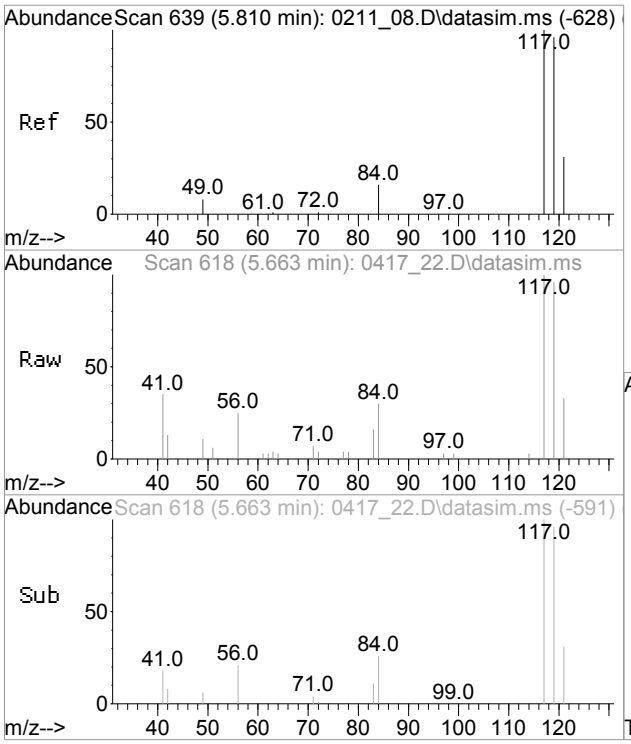


#84
Trichlorofluoromethane(sim)
Concen: 0.18 ppbv
RT: 2.232 min Scan# 136
Delta R.T. -0.009 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:101 Resp: 10347

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.5	77.3

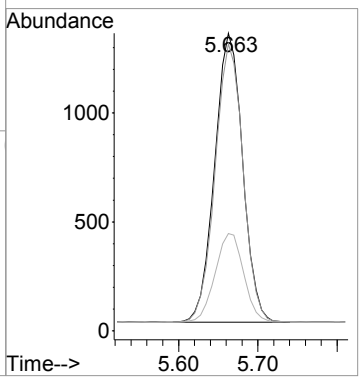


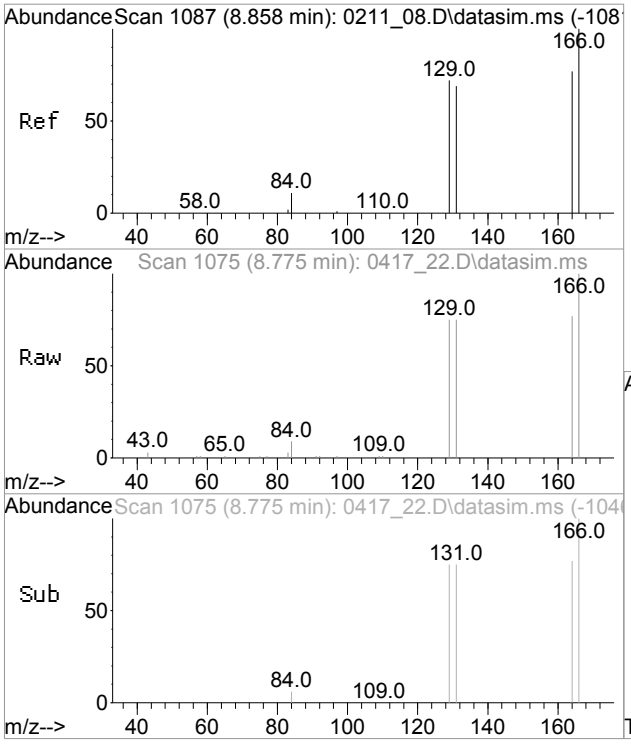


#91
Carbon Tetrachloride(sim)
Concen: 0.07 ppbv
RT: 5.663 min Scan# 618
Delta R.T. -0.007 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:117 Resp: 3251

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.8	115.2
121	31.3	24.7	37.1

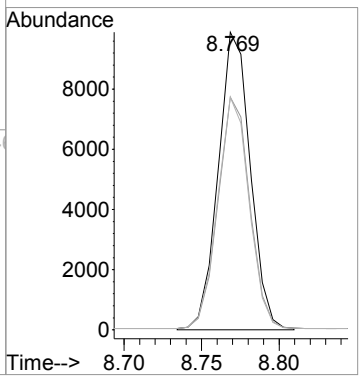


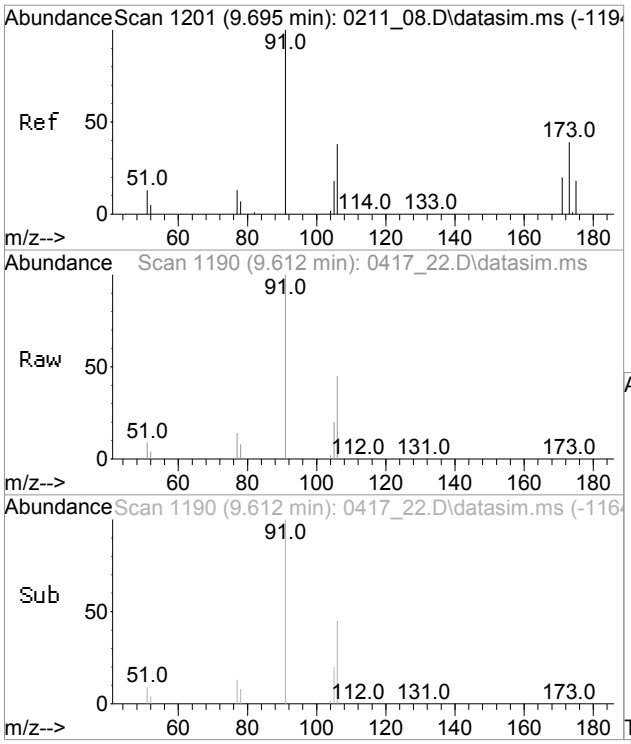


#102
Tetrachloroethene(sim)
Concen: 0.54 ppbv
RT: 8.772 min Scan# 1075
Delta R.T. -0.003 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:166 Resp: 13027

Ion	Ratio	Lower	Upper
166	100		
164	78.3	58.9	98.9
129	76.0	40.9	80.9

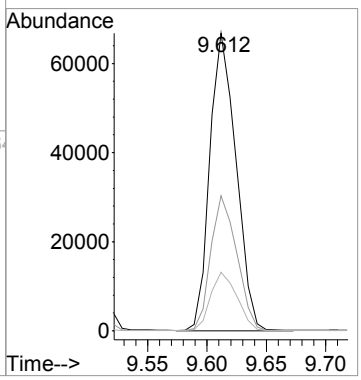


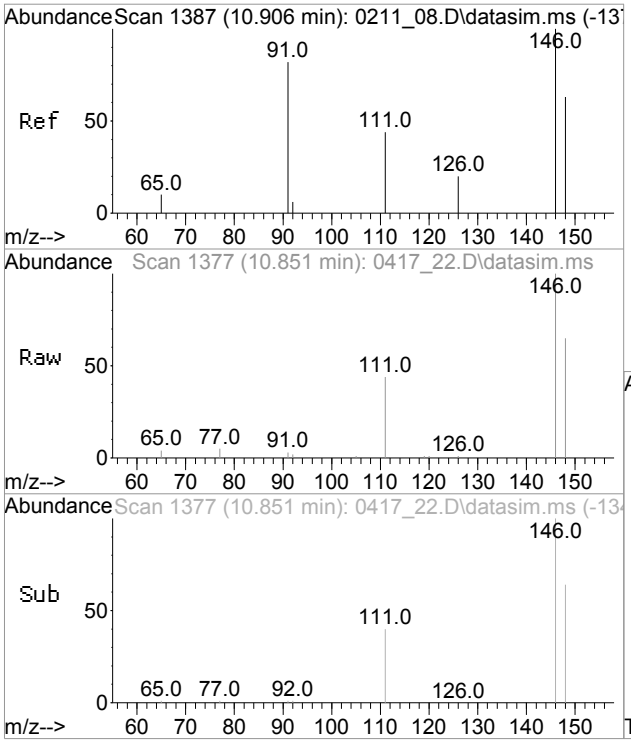


#106
m,p-Xylene(sim)
Concen: 1.97 ppbv
RT: 9.609 min Scan# 1190
Delta R.T. -0.008 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion: 91 Resp: 96852

Ion	Ratio	Lower	Upper
91	100		
106	45.3	43.6	53.3
105	19.7	17.0	25.6

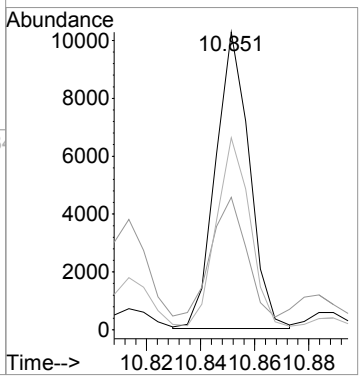




#111
1,3-Dichlorobenzene(sim)
Concen: 0.20 ppbv
RT: 10.851 min Scan# 1377
Delta R.T. -0.000 min
Lab File: 0417_22.D
Acq: 17 Apr 2017 9:19 pm

Tgt Ion:146 Resp: 8924

Ion	Ratio	Lower	Upper
146	100		
111	41.3	26.3	39.5#
148	64.5	52.2	78.4



1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 1041

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0328_19.D

Instrument: CHEM20 Column: zb-1ms Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/29/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.480		0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
75-71-8	Dichlorodifluoromethane(sim)	0.202	U	0.202	0.202	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-15-0	Carbon Disulfide(sim)	0.321	U	0.321	0.321	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 1041

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0328_19.D

Instrument: CHEM20 Column: zb-1ms Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/29/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
108-90-7	Chlorobenzene(sim)	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
100-42-5	Styrene(sim)	0.235	U	0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene(sim)	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene(sim)	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene(sim)	0.204	U	0.204	0.204	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM20\03MAR\28\
Data File : 0328_19.D
Acq On : 29 Mar 2017 12:47 am
Operator : CORTEX\ms
Client ID : CANISTER BLK 1041
Lab ID : CANISTER BLK 1041
ALS Vial : 1 Sample Multiplier: 1

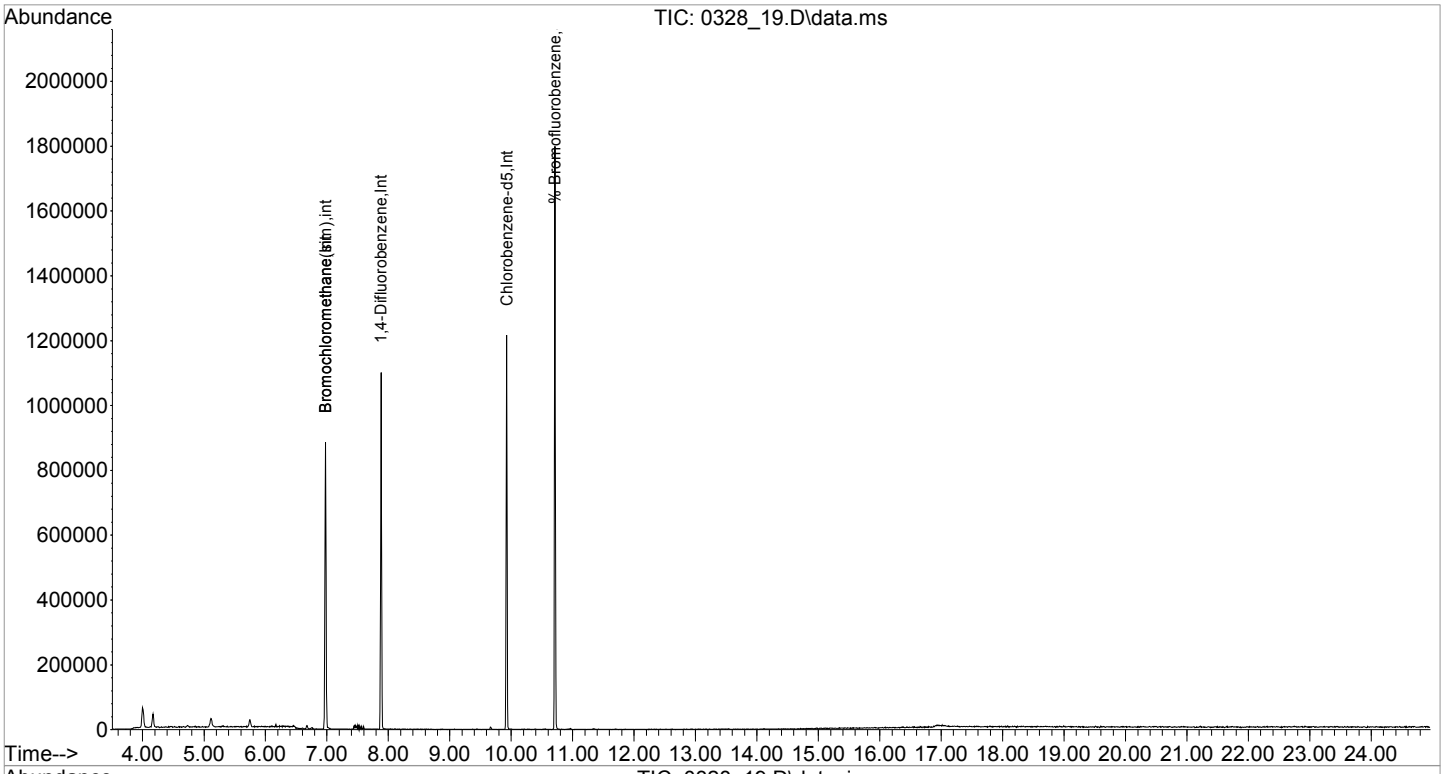
Quant Time: Mar 29 08:31:39 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration

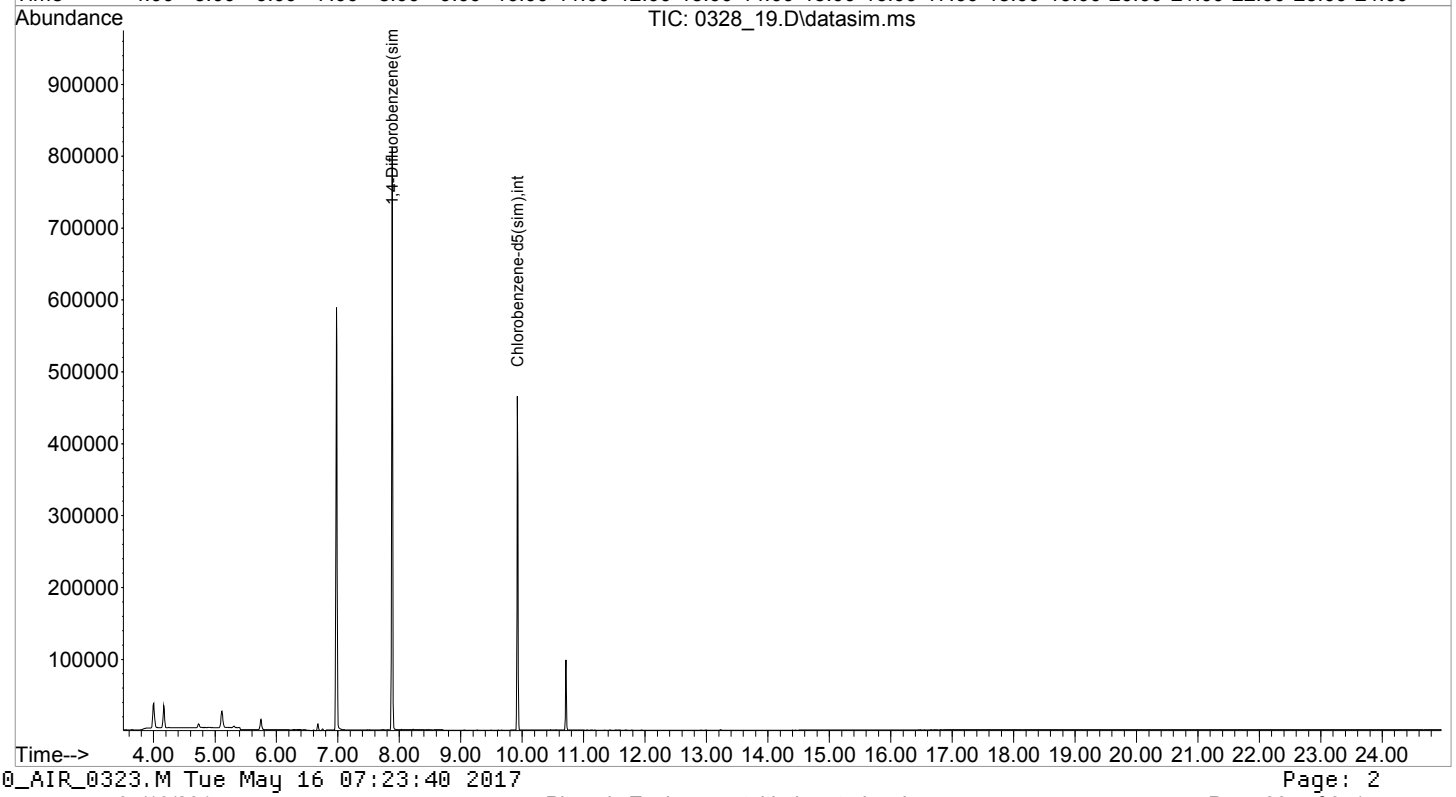
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.979	130	178796	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.881	114	460176	10.000	ng		0.00
53) Chlorobenzene-d5	9.927	82	182751	10.000	ng	#	0.00
80) Bromochloromethane(sim)	6.979	130	178796	10.000	ng		0.00
97) 1,4-Difluorobenzene(sim)	7.884	114	541549	10.000	ng		0.00
107) Chlorobenzene-d5(sim)	9.922	82	189335	10.000	ng	#	0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	10.711	95	264192	10.645	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.50%				
Target Compounds							Qvalue
12) Acetone	5.103	43	23727	0.478	ppbv	#	36

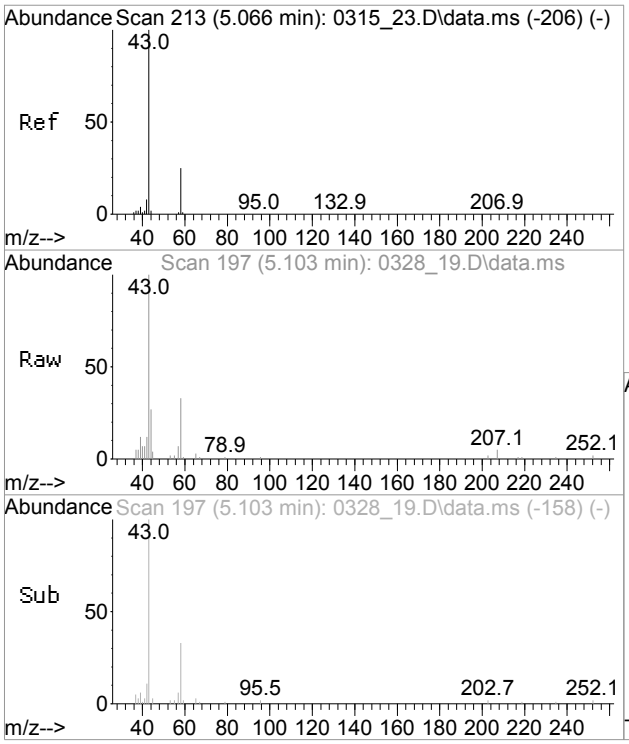
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM20\03MAR\28\
Data File : 0328_19.D
Acq On : 29 Mar 2017 12:47 am
Operator : CORTEX\ms
Client ID : CANISTER BLK 1041
Lab ID : CANISTER BLK 1041
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 29 08:31:39 2017
Quant Method : H:\AIR2017\CHEM20\METHODS\20_AIR_0323.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 24 10:23:55 2017
Response via : Initial Calibration



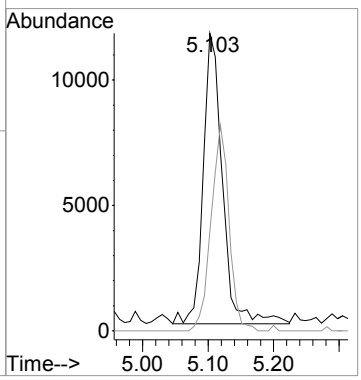




#12
Acetone
Concen: 0.48 ppbv
RT: 5.103 min Scan# 197
Delta R.T. 0.013 min
Lab File: 0328_19.D
Acq: 29 Mar 2017 12:47 am

Tgt Ion: 43 Resp: 23727

Ion	Ratio	Lower	Upper
43	100		
58	66.1	24.8	37.2#



Canister Cleaning Certification

Batch Id: 1041

QC Canister Id: 733

Canister Ids: 11285, 12857, 12864, 12868, 12869, 13643, 19816, 19969, 21345, 21368, 23343, 733

Certified: ☑

Certified Date: 3/29/2017 12:47:00 AM

Certified By: KCA

Certified Computer: AIRLABPL223

Sample Id: BLK 1041

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2017\CHEM20\03MAR\28\0328_19.D\0328_19-20_AIR_0323.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.6454	1,1,1,2-Tetrachloroethane	0
1,1,1-Trichloroethane	0	1,1,1-Trichloroethane(sim)	0
1,1,2,2-Tetrachloroethane	0	1,1,2,2-Tetrachloroethane(sim)	0
1,1,2-Trichloroethane	0	1,1,2-Trichloroethane(sim)	0
1,1-Dichloroethane	0	1,1-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	0
1,2,4-Trichlorobenzene	0	1,2,4-Trichlorobenzene(sim)	0
1,2,4-Trimethylbenzene	0	1,2,4-Trimethylbenzene(sim)	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3,5-Trimethylbenzene(sim)	0
1,3-Butadiene	0	1,3-Dichlorobenzene	0
1,3-Dichlorobenzene(sim)	0	1,4-Dichlorobenzene	0
1,4-Dichlorobenzene(sim)	0	1,4-Difluorobenzene (Internal Standard)	10
1,4-Difluorobenzene(sim) (Internal Standard	10	1,4-Dioxane	0
1,4-Dioxane(sim)	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Ethyltoluene(sim)	0
4-Isopropyltoluene	0	4-Isopropyltoluene(sim)	0
4-Methyl-2-pentanone(MIBK)	0	Acetone	0.4784
Acrylonitrile	0	Allyl Chloride	0
Benzene	0	Benzene(sim)	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane (Internal Standard)	10	Bromochloromethane(sim) (Internal Standa	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Disulfide(sim)	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene(sim)	0
Chlorobenzene-d5 (Internal Standard)	10	Chlorobenzene-d5(sim) (Internal Standard)	10
Chloroethane	0	Chloroform	0
Chloroform(sim)	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Dichlorodifluoromethane(sim)	0	Ethanol	0.4828
Ethyl acetate	0	Ethylbenzene	0
Ethylbenzene(sim)	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	Isopropylbenzene(sim)	0

Canister Cleaning Certification

Batch Id: 1041

QC Canister Id: 733

Canister Ids: 11285, 12857, 12864, 12868, 12869, 13643, 19816, 19969, 21345, 21368, 23343, 733

Certified: ☑

Certified Date: 3/29/2017 12:47:00 AM

Certified By: KCA

Certified Computer: AIRLABPL223

Sample Id: BLK 1041

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2017\CHEM20\03MAR\28\0328_19.D\0328_19-20_AIR_0323.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
m,p-Xylene	0	m,p-Xylene(sim)	0
Methyl Ethyl Ketone	0.2104	Methyl methacrylate	0
Methyl tert-butyl ether(MTBE)	0	Methylene Chloride	0
n-Butylbenzene	0	n-Butylbenzene(sim)	0
n-Propylbenzene	0	n-Propylbenzene(sim)	0
Naphthalene	0	Naphthalene(sim)	0
o-Xylene	0	o-Xylene(sim)	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
Styrene(sim)	0	tert-butyl alcohol	0.2906
tert-butylbenzenze	0	tert-butylbenzenze(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	Trans-1,2-Dichloroethene(sim)	0
trans-1,3-Dichloropropene	0	Trichloroethene	0
Trichloroethene(sim)	0	Trichlorofluoromethane	0
Trichlorofluoromethane(sim)	0	Trichlorotrifluoroethane	0
Trichlorotrifluoroethane(sim)	0	Vinyl Bromide	0
Vinyl Chloride	0	Vinyl Chloride(sim)	0

1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 1042

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0330_10.D

Instrument: CHEM24 Column: zb-1ms Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/30/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.470		0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.288	U	0.288	0.288	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.098	U	0.098	0.098	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

CLIENT ID

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CANISTER BLK 1042

Client: AIRTEK Lab: Phoenix Env. Labs

SDG No.: GBY03105 Lab Sample ID: CANISTE CANBL

Canister: CANBL Lab File ID: 0330_10.D

Instrument: CHEM24 Column: zb-1ms Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/30/17

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.040	U	0.040	0.040	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.047	U	0.047	0.047	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2017\CHEM24\03MAR\30\
Data File : 0330_10.D
Acq On : 30 Mar 2017 3:25 pm
Operator : Keith
Client ID : CANISTER BLK 1042
Lab ID : CANISTER BLK 1042
ALS Vial : 13 Sample Multiplier: 1

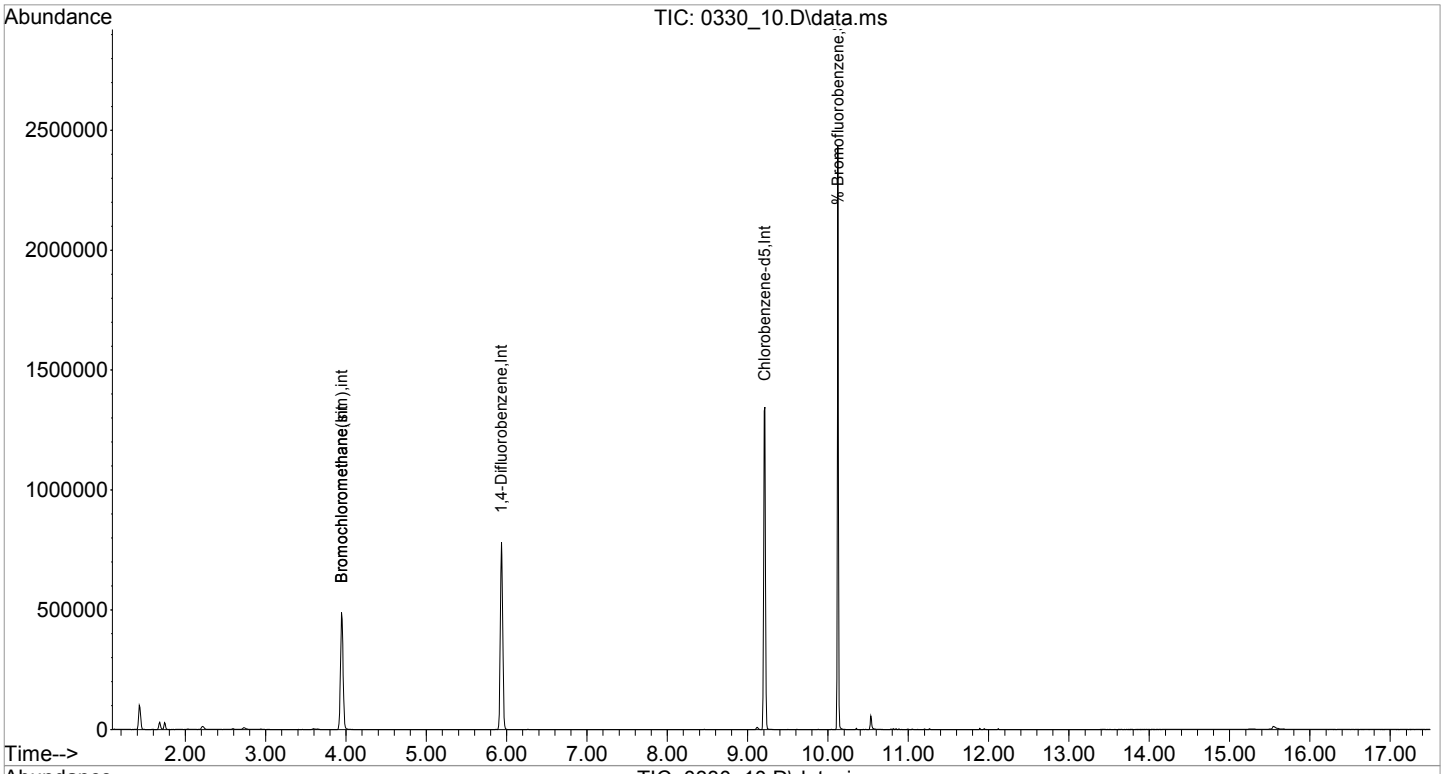
Quant Time: Mar 31 12:40:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0307.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 10:07:17 2017
Response via : Initial Calibration

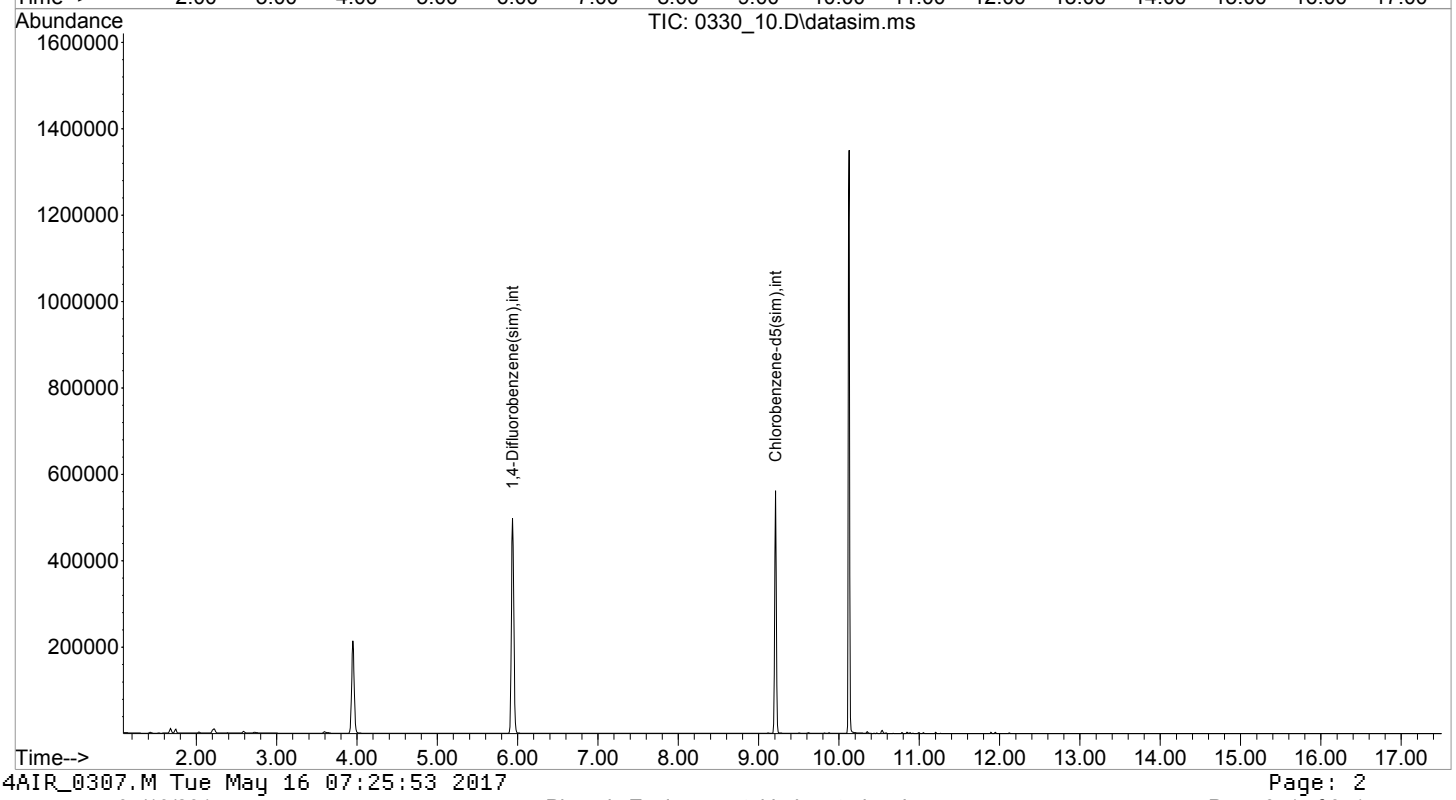
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.945	130	204308	10.000	ng	-0.04
36) 1,4-Difluorobenzene	5.934	114	701293	10.000	ng	-0.03
53) Chlorobenzene-d5	9.207	82	346604	10.000	ng	-0.01
80) Bromochloromethane(sim)	3.945	130	204308	10.000	ng	-0.04
93) 1,4-Difluorobenzene(sim)	5.937	114	758553	10.000	ng	#-0.03
103) Chlorobenzene-d5(sim)	9.210	82	362771	10.000	ng	-0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	10.124	95	455890	9.917	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.20%			
Target Compounds						Qvalue
12) Acetone	2.223	43	9957	0.475	ppbv#	1

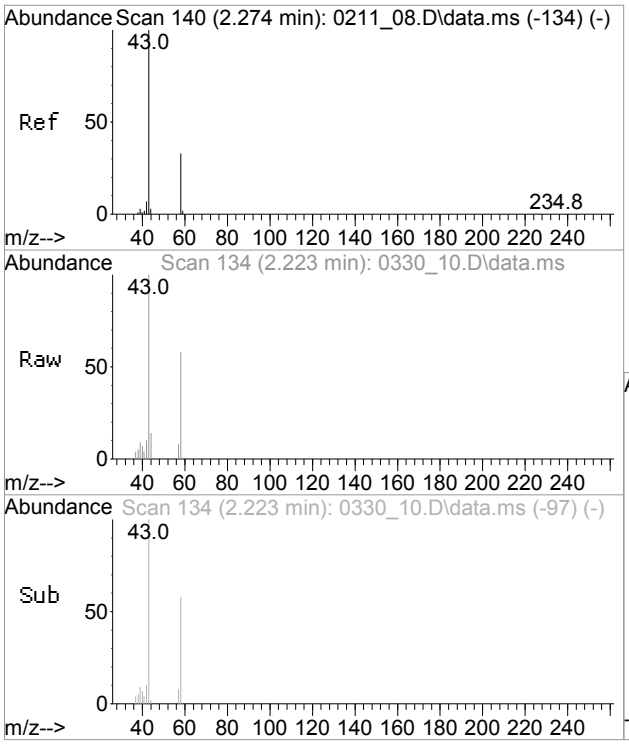
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2017\CHEM24\03MAR\30\
Data File : 0330_10.D
Acq On : 30 Mar 2017 3:25 pm
Operator : Keith
Client ID : CANISTER BLK 1042
Lab ID : CANISTER BLK 1042
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 31 12:40:45 2017
Quant Method : H:\AIR2017\CHEM24\METHODS\24AIR_0307.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 10:07:17 2017
Response via : Initial Calibration



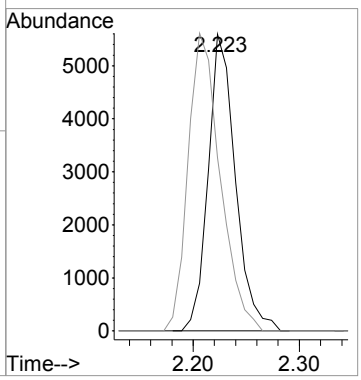




#12
Acetone
Concen: 0.47 ppbv
RT: 2.223 min Scan# 134
Delta R.T. 0.017 min
Lab File: 0330_10.D
Acq: 30 Mar 2017 3:25 pm

Tgt Ion: 43 Resp: 9957

Ion	Ratio	Lower	Upper
43	100		
58	118.6	21.8	32.8#



Canister Cleaning Certification

Batch Id: 1042

QC Canister Id: 788

Canister Ids: 11287, 19630, 19806, 19835, 19916, 19962, 21323, 21333, 23336, 369, 464, 788

Certified: ☑

Certified Date: 3/30/2017 3:25:00 PM

Certified By: KCA

Certified Computer: AIRLABPL223

Sample Id: blk 1042

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2017\CHEM24\03MAR\30\0330_10.D\0330_10-24AIR_0307.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9171	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene (Internal Standard)	10	1,4-Difluorobenzene(sim) (Internal Standard	10
1,4-Dioxane	0	1,4-Dioxane(sim)	0
2,2,4-trimethylpentane	0	2-Chlorotoluene	0
2-Hexanone(MBK)	0	4-Ethyltoluene	0
4-Isopropyltoluene	0	4-Isopropyltoluene(sim)	0
4-Methyl-2-pentanone(MIBK)	0	Acetone	0.4746
Acrylonitrile	0	Allyl Chloride	0
Benzene	0	Benzyl chloride	0
Benzyl chloride(sim)	0	Bromochloromethane (Internal Standard)	10
Bromochloromethane(sim) (Internal Standa	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5 (Internal Standard)	10
Chlorobenzene-d5(sim) (Internal Standard)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.4858	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0.2846
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0

Canister Cleaning Certification

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Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
Naphthalene(sim)	0	o-Xylene	0
Propylene	0.317	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0.3342	tert-butylbenzenze	0
tert-butylbenzenze(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Injection Log

Data Directory: H:\AIR2017\CHEM20\03MAR\28\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0328_23.D	*** No MS or GC data present ***		N/A
2)	1	0328_01.D	1ppb cc;air04q	istd;air05d	03/28/17 12:47
3)	1	0328_02.D	10ppb cc;air04v	istd;air05d	03/28/17 13:24
4)	1	0328_03.D	10ppb lcs ; air04y	istd;air05d	03/28/17 14:03
5)	1	0328_04.D	0/0	istd;air05d	03/28/17 14:38
6)	1	0328_05.D	0/0	istd;air05d	03/28/17 15:13
7)	1	0328_06.D	blk for dil	istd;air05d	03/28/17 16:40
8)	1	0328_07.D	94501	istd;air05d	03/28/17 17:21
9)	1	0328_08.D	94502	istd;air05d	03/28/17 18:01
10)	1	0328_09.D	94499	istd;air05d	03/28/17 18:42
11)	1	0328_10.D	94500	istd;air05d	03/28/17 19:22
12)	1	0328_11.D	95208	istd;air05d	03/28/17 20:02
13)	1	0328_12.D	0/0	istd;air05d	03/28/17 21:03
14)	1	0328_13.D	94502 dup	istd;air05d	03/28/17 21:43
15)	1	0328_14.D	94499 10x	istd;air05d	03/28/17 22:21
16)	1	0328_15.D	94500 30x;2x	istd;air05d	03/28/17 22:58
17)	1	0328_16.D	0/0	istd;air05d	03/28/17 23:34
18)	1	0328_17.D	0/0	istd;air05d	03/29/17 0:09
19)	1	0328_19.D	CANISTER BLK 1041	CANISTER BLK 1041	03/29/17 0:47
20)	1	0328_20.D	0/0	istd;air05d	03/29/17 1:23
21)	1	0328_21.D	1.0PPB;AIR04Q	istd;air05d	03/29/17 1:59
22)	1	0328_22.D	10PPB;AIR04V	istd;air05d	03/29/17 2:36

Injection Log

Data Directory: H:\AIR2017\CHEM20\04APR\05\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0406_17.D	*** No MS or GC data present ***		N/A
2)	0	0405_28.D	*** No MS or GC data present ***		N/A
3)	1	0405_01.D	0/0	istd;air05d	04/05/17 10:51
4)	1	0405_02.D	BFB TUNE	0/0	04/05/17 11:26
5)	1	0405_03.D	ICAL 0.035	0.035ppb	04/05/17 12:02
6)	1	0405_04.D	ICAL 0.05	0.05ppb;air03m	04/05/17 12:39
7)	1	0405_05.D	ICAL 0.1	0.10ppb;air03m	04/05/17 13:15
8)	1	0405_06.D	ICAL 0.25	0.2ppb;air03m	04/05/17 13:52
9)	1	0405_07.D	ICAL 0.5	0.5ppb;air03m	04/05/17 14:31
10)	1	0405_08.D	ICAL 1	1.0ppb;air03y	04/05/17 15:07
11)	1	0405_09.D	ICAL 2.5	2.5ppb;air03y	04/05/17 15:45
12)	1	0405_10.D	ICAL 5	5.0ppb;air03w	04/05/17 16:22
13)	1	0405_11.D	ICAL 10	10ppb;air03w	04/05/17 16:58
14)	1	0405_12.D	ICAL 25	25ppb;air03w	04/05/17 17:37
15)	1	0405_13.D	ICAL 40	40ppb;air03w	04/05/17 18:16
16)	1	0405_14.D	10PPB LCS ;air06a	istd;air05d	04/05/17 18:55
17)	1	0405_15.D	0/0	istd;air05d	04/05/17 19:29
18)	1	0405_16.D	0/0	istd;air05d	04/05/17 20:27
19)	1	0405_17.D	BLK 1046	istd;air05d	04/05/17 21:06
20)	1	0405_18.D	BLK 1047	istd;air05d	04/05/17 21:45
21)	1	0405_19.D	99687	istd;air05d	04/05/17 22:24
22)	1	0405_20.D	99689	istd;air05d	04/05/17 23:04
23)	1	0405_21.D	99690	istd;air05d	04/05/17 23:44
24)	1	0405_22.D	99692	istd;air05d	04/06/17 0:23
25)	1	0405_23.D	99475	istd;air05d	04/06/17 1:03
26)	1	0405_24.D	99476	istd;air05d	04/06/17 1:43
27)	1	0405_25.D	99477	istd;air05d	04/06/17 2:23
28)	1	0405_26.D	99688	istd;air05d	04/06/17 3:02
29)	1	0405_27.D	99691	istd;air05d	04/06/17 3:42
30)	1	0405_29.D	99476 DUP	istd;air05d	04/06/17 8:51
31)	1	0406_01.D	0.2 PPB RL;AIR 03M	istd;air05d	04/06/17 9:46
32)	1	0406_02.D	1.0ppb;air03y	istd;air05d	04/06/17 10:22
33)	1	0406_03.D	10ppb;air03w	istd;air05d	04/06/17 10:59
34)	1	0406_04.D	10PPB LCS ;air06a	istd;air05d	04/06/17 11:37
35)	1	0406_05.D	0/0	istd;air05d	04/06/17 12:12
36)	1	0406_06.D	0/0	istd;air05d	04/06/17 12:46
37)	1	0406_07.D	00163	istd;air05d	04/06/17 18:14
38)	1	0406_08.D	00161	istd;air05d	04/06/17 18:54
39)	1	0406_09.D	00161	istd;air05d	04/06/17 19:34
40)	1	0406_10.D	00162 10X	istd;air05d	04/06/17 20:11
41)	1	0406_11.D	00161 3X;10X	istd;air05d	04/06/17 20:48
42)	1	0406_12.D	0/0	istd;air05d	04/06/17 21:31
43)	1	0406_13.D	00163 DUP	istd;air05d	04/06/17 22:11
44)	1	0406_14.D	0/0	istd;air05d	04/06/17 22:53
45)	1	0406_15.D	1.0ppb;air03y	istd;air05d	04/06/17 23:30
46)	1	0406_16.D	10ppb;air03w	istd;air05d	04/07/17 0:07

Injection Log

Data Directory: H:\AIR2017\CHEM20\04APR\12\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0412_05A.D	*** No MS or GC data present ***		N/A
2)	0	0412_06.D	*** No MS or GC data present ***		N/A
3)	0	0412_01A.D	*** No MS or GC data present ***		N/A
4)	0	0412_67.D	*** No MS or GC data present ***		N/A
5)	1	0412_01.D	0/0	istd;air05v	04/12/17 16:03
6)	1	0412_02.D	1.0ppb; air04q	istd;air05v	04/12/17 17:17
7)	1	0412_03.D	10ppb;04v	istd;air05v	04/12/17 17:54
8)	1	0412_04.D	10ppb lcs;04y	istd;air05v	04/12/17 18:33
9)	1	0412_05.D	0.2PPB;AIR05I	istd;air05v	04/12/17 19:09
10)	1	0412_06A.D	0/0	istd;air05v	04/12/17 20:06
11)	1	0412_07.D	0/0	istd;air05v	04/12/17 20:41
12)	1	0412_08.D	blk 1048	istd;air05v	04/12/17 21:20
13)	1	0412_09.D	blk 1049	istd;air05v	04/12/17 21:58
14)	1	0412_10.D	01392 10x	istd;air05v	04/12/17 22:36
15)	1	0412_11.D	01393 2x;10x	istd;air05v	04/12/17 23:13
16)	1	0412_12.D	01311 10x	istd;air05v	04/12/17 23:51
17)	1	0412_13.D	01391 3x;10x	istd;air05v	04/13/17 0:28
18)	1	0412_14.D	01313 3x;10x	istd;air05v	04/13/17 1:05
19)	1	0412_15.D	0/0	istd;air05v	04/13/17 1:40
20)	1	0412_16.D	01318	istd;air05v	04/13/17 2:20
21)	1	0412_17.D	01318 dup	istd;air05v	04/13/17 3:01
22)	1	0412_18.D	01390 3x;10x	istd;air05v	04/13/17 3:38
23)	1	0412_19.D	01310 15x;10x	istd;air05v	04/13/17 4:16
24)	1	0412_20.D	01312 15x;10x	istd;air05v	04/13/17 4:53
25)	1	0412_21.D	01314 15x;10x	istd;air05v	04/13/17 5:30
26)	1	0412_22.D	01316 15x;10x	istd;air05v	04/13/17 6:07
27)	1	0412_23.D	01319 15x;10x	istd;air05v	04/13/17 6:43
28)	1	0412_24.D	01317 15x;10x	istd;air05v	04/13/17 7:20
29)	1	0412_25.D	01973	istd;air05v	04/13/17 8:00
30)	1	0412_26.D	01974	istd;air05v	04/13/17 8:40
31)	1	0412_27.D	01975	istd;air05v	04/13/17 9:19
32)	1	0412_28.D	01976	istd;air05v	04/13/17 9:59
33)	1	0412_29.D	01977	istd;air05v	04/13/17 10:38
34)	1	0412_30.D	01972 2x;5x	istd;air05v	04/13/17 11:15
35)	1	0412_31.D	01971 2x;5x	istd;air05v	04/13/17 11:52
36)	1	0412_32.D	BFB TUNE	0/0	04/13/17 12:27
37)	1	0412_33.D	CCAL 1	1.0ppb; air04q	04/13/17 13:04
38)	1	0412_34.D	CCAL 10	10ppb;04v	04/13/17 13:40
39)	1	0412_35.D	BY03107 LCS	BY03107 LCS	04/13/17 14:19
40)	1	0412_36.D	0.2PPB;AIR05I	istd;air05v	04/13/17 14:56
41)	1	0412_37.D	0/0	istd;air05v	04/13/17 15:30
42)	1	0412_38.D	BY03107 BLANK	BY03107 BLANK	04/13/17 16:05
43)	1	0412_39.D	blk 1050	istd;air05v	04/13/17 17:06
44)	1	0412_40.D	03561	istd;air05v	04/13/17 18:34
45)	1	0412_41.D	IA-1	BY03106	04/13/17 19:14
46)	1	0412_42.D	OA-1	BY03107	04/13/17 19:55
47)	1	0412_43.D	OA-1 DUP	BY03107 DUP	04/13/17 20:35
48)	1	0412_44.D	01971 400cc	istd;air05v	04/13/17 21:17
49)	1	0412_45.D	SS-1	BY03105	04/13/17 21:57
50)	1	0412_46.D	03560	istd;air05v	04/13/17 22:38
51)	1	0412_47.D	023562	istd;air05v	04/13/17 23:17
52)	1	0412_48.D	03563	istd;air05v	04/13/17 23:58
53)	1	0412_49.D	03564	istd;air05v	04/14/17 0:38
54)	1	0412_50.D	03565	istd;air05v	04/14/17 1:18
55)	1	0412_51.D	03566	istd;air05v	04/14/17 1:58
56)	1	0412_52.D	0/0	istd;air05v	04/14/17 2:33
57)	1	0412_53.D	03087	istd;air05v	04/14/17 3:12
58)	1	0412_54.D	03088	istd;air05v	04/14/17 3:52
59)	1	0412_55.D	01974 5x	istd;air05v	04/14/17 4:29
60)	1	0412_56.D	019745 3x;10x	istd;air05v	04/14/17 5:07
61)	1	0412_57.D	01976 3x;10x	istd;air05v	04/14/17 5:43
62)	1	0412_58.D	01972 8x;10	istd;air05v	04/14/17 6:20
63)	1	0412_59.D	01319 150x;10x	istd;air05v	04/14/17 6:57
64)	1	0412_60.D	0/0	istd;air05v	04/14/17 7:32
65)	1	0412_61.D	CCAL 1	1.0	04/14/17 8:09
66)	1	0412_62.D	CCAL 10	10	04/14/17 8:46

```
67)  1 0412_63.D  lcs                    istd;air05v          04/14/17  9:24
68)  1 0412_64.D  0.2                    istd;air05v          04/14/17 10:01
69)  1 0412_65.D  0/0                    istd;air05v          04/14/17 10:36
70)  1 0412_66.D  0/0                    istd;air05v          04/14/17 11:10
```

Injection Log

Data Directory: H:\AIR2017\CHEM24\04APR\11A\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0411_01.D	0/0		04/11/17 18:44
2)	2	0411_02.D	BFB TUNE	0/0	04/11/17 19:13
3)	4	0411_03.D	ICAL 0.035	0.035 ppb	04/11/17 19:43
4)	5	0411_04.D	ICAL 0.05	0.05 ppb	04/11/17 20:14
5)	6	0411_05.D	ICAL 0.1	0.1 ppb	04/11/17 20:45
6)	10	0411_06.D	ICAL 0.25	0.2ppb	04/11/17 21:16
7)	11	0411_07.D	ICAL 0.5	0.5ppb	04/11/17 21:51
8)	12	0411_08.D	ICAL 1	1 ppb	04/11/17 22:23
9)	13	0411_09.D	ICAL 2.5	2.5ppb	04/11/17 22:58
10)	14	0411_10.D	ICAL 5	5ppb	04/11/17 23:28
11)	15	0411_11.D	ICAL 10	10ppb	04/12/17 0:47
12)	16	0411_12.D	ICAL 25	25ppb	04/12/17 1:22
13)	17	0411_13.D	ICAL 40	40ppb	04/12/17 2:00
14)	18	0411_14.D	lcs		04/12/17 2:36
15)	19	0411_15.D	0/0		04/12/17 3:06
16)	20	0411_16.D	0/0		04/12/17 3:36

Injection Log

Data Directory: H:\AIR2017\CHEM24\03MAR\30\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0330_34.D	*** No MS or GC data present ***		N/A
2)	0	0330_18.D	*** No MS or GC data present ***		N/A
3)	1	0330_01.D	0/0		03/30/17 8:38
4)	2	0330_02.D	1.0 ppb 01B		03/30/17 9:10
5)	4	0330_03.D	10ppb 01D		03/30/17 9:42
6)	5	0330_04.D	10PPB LCS 00Z		03/30/17 10:18
7)	10	0330_05.D	0/0		03/30/17 10:47
8)	11	0330_06.D	0/0		03/30/17 11:17
9)	12	0330_07.D	0.5ppb AB LOD 200cc		03/30/17 11:53
10)	12	0330_08.D	0.5ppb AB LOD 200cc		03/30/17 13:12
11)	12	0330_09.D	0.5ppb AB LOD 200cc		03/30/17 14:04
12)	13	0330_10.D	CANISTER BLK 1042	CANISTER BLK 1042	03/30/17 15:25
13)	14	0330_11.D	blk 1043		03/30/17 16:00
14)	15	0330_12.D	96229		03/30/17 16:36
15)	16	0330_13.D	96230		03/30/17 17:12
16)	17	0330_14.D	96231		03/30/17 17:47
17)	18	0330_15.D	96232		03/30/17 18:18
18)	19	0330_16.D	95639 ab 10x		03/30/17 18:49
19)	20	0330_17.D	95640 ab 10x		03/30/17 19:19
20)	22	0330_19.D	96694		03/30/17 19:54
21)	23	0330_20.D	96695		03/30/17 20:30
22)	24	0330_21.D	96644		03/30/17 21:00
23)	25	0330_22.D	96696		03/30/17 21:36
24)	26	0330_23.D	96697		03/30/17 22:11
25)	27	0330_24.D	0/0		03/30/17 22:41
26)	28	0330_25.D	96695 dup		03/30/17 23:15
27)	29	0330_26.D	95640 ab 1x		03/31/17 0:37
28)	30	0330_27.D	96230 2x		03/31/17 1:10
29)	31	0330_28.D	96229 10x		03/31/17 1:41
30)	32	0330_29.D	96696 10x		03/31/17 2:12
31)	33	0330_30.D	96697 10x		03/31/17 2:42
32)	34	0330_31.D	0/0		03/31/17 3:12
33)	35	0330_32.D	1.0ppb;air01b		03/31/17 3:44
34)	36	0330_33.D	10ppb;air01d		03/31/17 4:17

Injection Log

Data Directory: H:\AIR2017\CHEM24\04APR\17\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0417_35.D	*** No MS or GC data present ***		N/A
2)	1	0417_01.D	0/0		04/17/17 9:28
3)	2	0417_02.D	CCAL 1 - BFB TUNE	1.0 ppb 01B - 1.0 p	04/17/17 10:01
4)	4	0417_03.D	CCAL 10	10ppb 01D	04/17/17 10:33
5)	5	0417_04.D	BY04726 LCS	BY04726 LCS	04/17/17 11:08
6)	6	0417_05.D	0.2		04/17/17 11:41
7)	10	0417_06.D	BY04726 BLANK	BY04726 BLANK	04/17/17 12:11
8)	11	0417_07.D	0/0		04/17/17 12:41
9)	12	0417_08.D	SS-1 DIL	BY03105 30X	04/17/17 13:11
10)	13	0417_09.D	03560 15x;10x		04/17/17 13:42
11)	14	0417_10.D	03561 3x;10x		04/17/17 14:13
12)	15	0417_11.D	03562 15x;10x		04/17/17 14:43
13)	16	0417_12.D	03563 3x;10x		04/17/17 15:14
14)	17	0417_13.D	03564 3x;10x		04/17/17 15:45
15)	18	0417_14.D	03566 3x;10x		04/17/17 16:16
16)	18	0417_15.D	blk 1051		04/17/17 16:51
17)	19	0417_16.D	04710 ab 5x		04/17/17 17:27
18)	20	0417_17.D	04725		04/17/17 18:02
19)	21	0417_18.D	04406		04/17/17 18:38
20)	22	0417_19.D	04407		04/17/17 19:15
21)	23	0417_20.D	04724		04/17/17 19:50
22)	24	0417_21.D	BY04726 QC	BY04726	04/17/17 20:26
23)	25	0417_22.D	BY04726 DUP	BY04726 DUP	04/17/17 21:19
24)	26	0417_23.D	04710 ab 5x;5x		04/17/17 21:50
25)	27	0417_24.D	0/0		04/17/17 22:20
26)	28	0417_25.D	0/0		04/17/17 22:50
27)	29	0417_26.D	05389		04/17/17 23:25
28)	30	0417_27.D	05390		04/18/17 0:00
29)	31	0417_28.D	05388		04/18/17 1:23
30)	32	0417_29.D	05491 ab 5x		04/18/17 1:58
31)	33	0417_30.D	0/0		04/18/17 2:28
32)	34	0417_31.D	CCAL 1	1.0ppb;air4r	04/18/17 3:01
33)	35	0417_32.D	CCAL 10	10ppb;air4u	04/18/17 3:33
34)	36	0417_33.D	10ppb lcs;air4z		04/18/17 4:08
35)	37	0417_34.D	0.2ppb rl;air5j		04/18/17 4:41
36)	42	0417_39.D	?		04/18/17 15:39

APPENDIX C – NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Michael Rivera Date/Time Prepared 6/5/17 0930

Preparer's Affiliation Airtek Environmental corp. Phone No. 718 937 3720

Purpose of Investigation Soil vapor investigation for 32-01 57th st. Woodside NY 11377

1. OCCUPANT:

Interviewed: (Y)/ N

Last Name: Topjor First Name: Tenzin

Address: 32-12 58th Street, Woodside, NY 11377

County: Queens

Home Phone: N/A Office Phone: (646) 479-4636

Number of Occupants/persons at this location 2 Age of Occupants 32

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y /(N)

Last Name: Curley First Name: Keron

Address: 32 East 35th Street, NY, NY 10016

County: Newyork

Home Phone: NA Office Phone: NA

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential) School ~~Commercial/Multi-use~~
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: Single family house

If multiple units, how many? NA

If the property is commercial, type?

Business Type(s) office

Does it include residences (i.e., multi-use)? (Y) N If yes, how many? 2

Other characteristics:

Number of floors 2 Building age 1925

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Basement Air flows up to 1ST floor through stairway and water line penetraters

Airflow near source

Boiler has vented doors

Outdoor air infiltration

Outdoor Air enters At windows

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick unknown
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with 12X12 vFT	
e. Concrete floor:	unsealed	sealed	sealed with unknown	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	unknown
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 5 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

None observed

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene	
Electric	Propane	Solar	Possibly fuel oil
Wood	Coal		

Domestic hot water tank fueled by: electric

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other _____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Storage
1st Floor	office space
2nd Floor	Residential / Bedrooms
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? Y / (N) When & Type?_____

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y / (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) / N If yes, where vented? no operational

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented? _____

o. Is there a clothes dryer? (Y) / N If yes, is it vented outside? (Y) / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? Y / N
If yes, please describe: Basement has animal ~~waste~~ urine odor

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	(Public Sewer)	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: NA

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

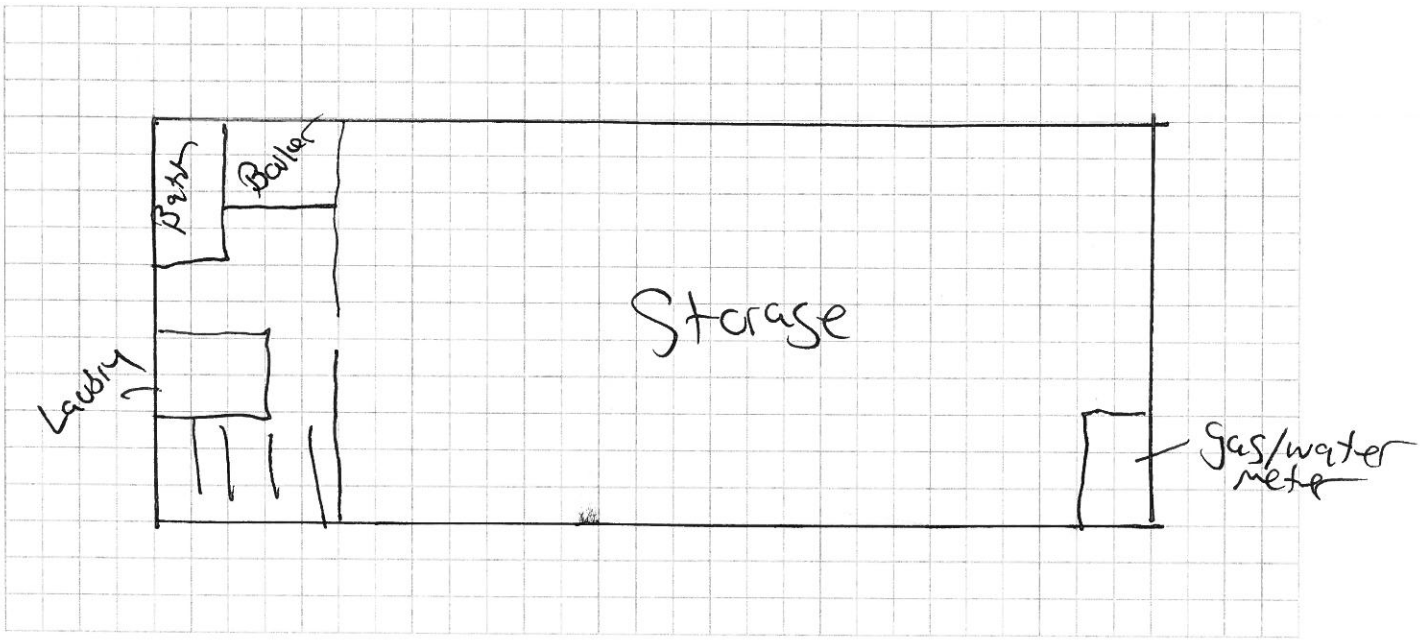
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

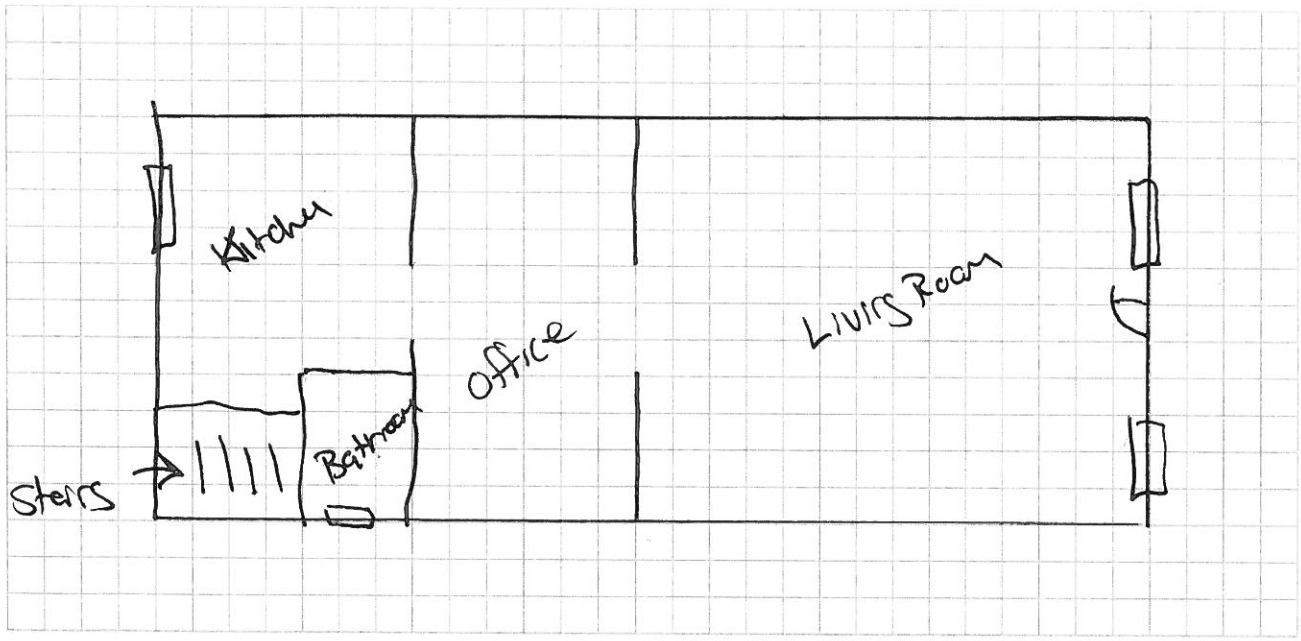
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

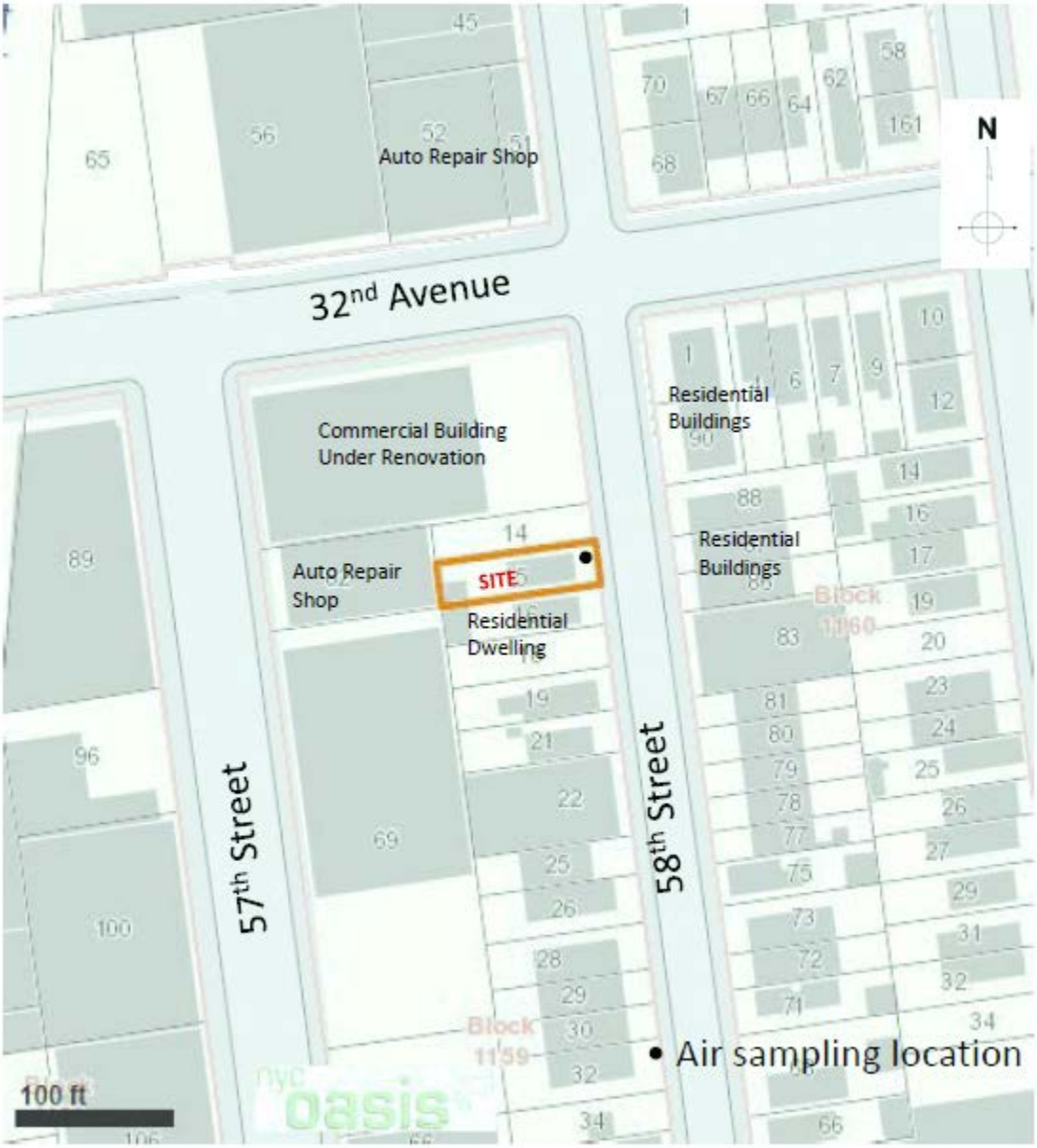
Basement:



First Floor:



12. OUTDOOR PLOT



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: N/A

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Basement	Instant Fabric color	3cans (30z)	used	Ethanol, Dimethyl Ether, Polyacrylic Acid		Y
Basement	Rustoleum Paint (spray)	8oz	used	Acetone and xylene		Y
↓	Simple Green Stainless steel polish	32oz	Used	Silicone Polymer Emulsion		Y
↓				Biodegradable surfactant		Y
↓	WD-40	8oz	used	Petroleum Distillates		Y
↓	Tile lab Penetrating Sealer	487ML	used	CAS #7732-18-15; copolymer		Y
↓	Repel insect Block 29% Deet	6.5oz		27.65% Deet 1.45% other ingredients		Y
↓	MR Clean	1gal	used	see photo		Y
↓	3 in 1 oil	3oz	used	Petroleum Distillate		Y
↓	Easy off oven cleaner	16oz	used	Monoethanolamine		Y
Kitchen	Easy off oven cleaner	14.5oz	used	Sodium Hydroxide		Y
↓	Drano Clog Remover	32oz	used	Sodium Hypochlorite, Sodium Hydroxide, Sodium Silicate		Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX D – SPECIFICATION CUT SHEETS FOR RADONAWAY VENTILATION FANS

RadonAway®
The world's leading radon fan manufacturer

RP Series



Radon Mitigation Fan

All RadonAway® fans are specifically designed for radon mitigation. RP Series Fans provide superb performance, run ultra-quiet and are attractive. They are ideal for most sub-slab radon mitigation systems.

Features

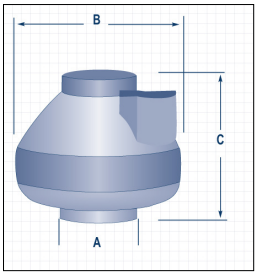
- Energy efficient
- Ultra-quiet operation
- Meets all electrical code requirements
- Water-hardened motorized impeller
- Seams sealed to inhibit radon leakage (RP140 & RP145 double snap sealed)
- ETL Listed - for indoor or outdoor use
- Thermally protected motor
- Rated for commercial and residential use

MODEL	P/N	FAN DUCT DIAMETER	WATTS	MAX. PRESSURE"WC	TYPICAL CFM vs. STATIC PRESSURE WC				
					0"	.5"	1.0"	1.5"	2.0"
RP140	23029-1	4"	15-21	0.8	135	70	-	-	-
RP145	23030-1	4"	41-72	2.1	166	126	82	41	3
RP260	23032-1	6"	50-75	1.6	272	176	89	13	-
RP265	23033-1	6"	91-129	2.3	334	247	176	116	52
RP380	28208	8"	95-152	2.3	497	353	220	130	38

Made in USA with US and imported parts

ETL Listed

All RadonAway inline radon fans are covered by our 5-year, hassle-free warranty



Model	A	B	C
RP140	4.5"	9.7"	8.5"
RP145	4.5"	9.7"	8.5"
RP260	6"	11.75"	8.6"
RP265	6"	11.75"	8.6"
RP380	8"	13.41"	10.53"

For Further Information Contact

8/15
P/N 02008

RadonAway®

The World's Leading
Radon Fan Manufacturer





RP Series

Installation & Operating Instructions

RadonAway
3 Saber Way | Ward Hill, MA 01835
www.radonaway.com

P/N IN020-REV R 08/15

RadonAway Ward Hill, MA.

Series Fan Installation & Operating Instructions

Please Read and Save These Instructions.

DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED. MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN "OFF" POSITION. DISCONNECT POWER BEFORE SERVICING FAN.

1. **WARNING!** WARNING! For General Ventilating Use Only. Do Not Use to Exhaust Hazardous, Corrosive or Explosive Materials, Gases or Vapors. See Vapor Intrusion Application Note #AN001 for important information on VI applications. RadonAway.com/vapor-intrusion
2. **WARNING!** NOTE: Fan is suitable for use with solid state speed controls however use of speed controls is not generally recommended.
3. **WARNING!** Check voltage at the fan to insure it corresponds with nameplate.
4. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.
5. **NOTICE!** There are no user serviceable parts located inside the fan unit. **Do NOT attempt to open.** Return unit to the factory for service.
6. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.
7. **WARNING!** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

   a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

   b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

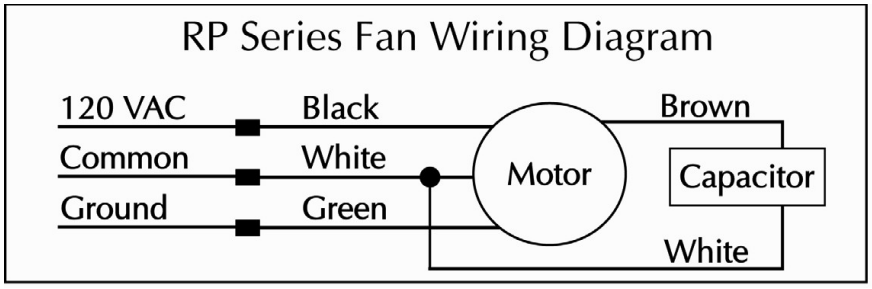
   c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction.

   d) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturers guideline and safety standards such as those published by the National Fire Protection Association, and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

   e) When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.

   f) Ducted fans must always be vented to outdoors.

   g) If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) - protected branch circuit.



RP Series

RP140	**p/n 23029-1**
RP145	**p/n 23030-1**
RP260	**p/n 23032-1**
RP265	**p/n 23033-1**
RP380	**p/n 28208**

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1. INTRODUCTION

The RP Series Radon Fans are intended for use by trained, professional, certified/licensed Radon mitigators. The purpose of this instruction is to provide additional guidance for the most effective use of an RP Series Fan. This instruction should be considered as a supplement to EPA/radon industry standard practices, state and local building codes and state regulations. In the event of a conflict, those codes, practices and regulations take precedence over this instruction.

1.2. FAN SEALING

The RP Series Fans are factory sealed, no additional caulk or other materials are required to inhibit air leakage.

1.3. ENVIRONMENTALS

The RP Series Fans are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F. or more than 100 degrees F.

1.4. ACOUSTICS

The RP Series Fan, when installed properly, operates with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the "rushing" sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

(To ensure quiet operation of ENERGY STAR qualified in-line and remote fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. For bathroom and general ventilation applications, at least 8 feet of insulated flexible duct shall be installed between the exhaust or supply grille(s) and the fan). RP Series fans are not suitable for kitchen range hood remote ventilation applications.

1.5. GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes thus blocking air flow to the RP Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff and falls upon shutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes allowing for return to normal operation.

1.6. SLAB COVERAGE

The RP Series Fan can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the RP Series Fan best suited for the sub-slab material can improve the slab coverage. The RP140/145/155 are best suited for general purpose use. The RP260 can be used where additional airflow is required and the RP265/380 is best suited for large slab, high airflow applications. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.7. CONDENSATION & DRAINAGE

Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The RP Series Fan **MUST** be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The RP Series Fans are **NOT** suitable for underground burial.

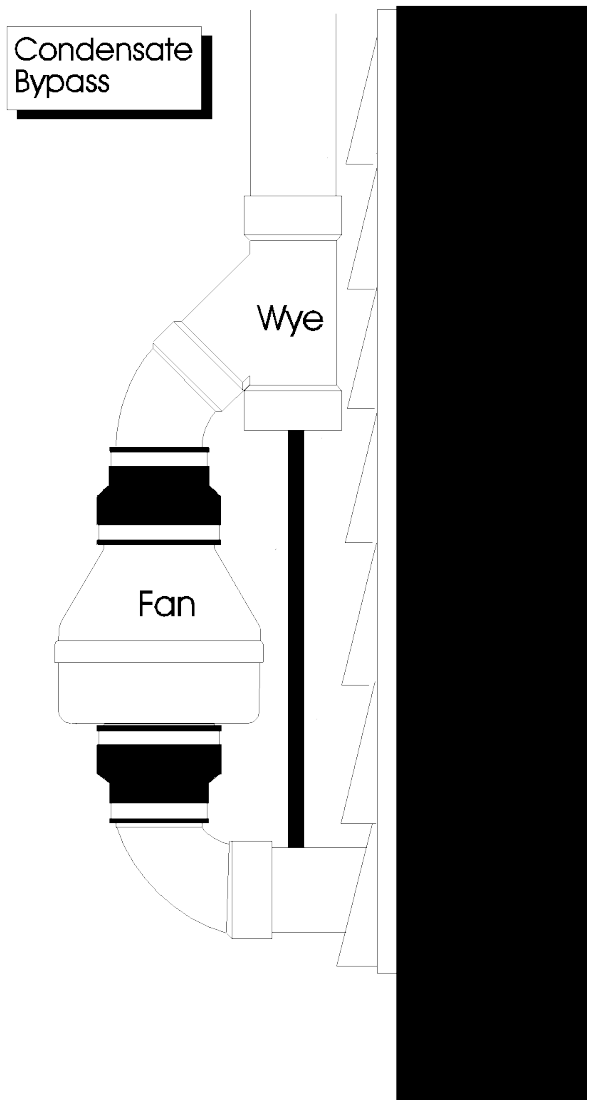
For RP Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

Pipe Dia.	Minimum Rise per Ft of Run*				
	@25 CFM	@50 CFM	@100 CFM	@200 CFM	@300 CFM
6"	-	3/16	1/4	3/8	3/4
4"	1/8	1/4	3/8	2 3/8	-
3"	1/4	3/8	1 1/2	-	-



*Typical RP1xx/2xx Series Fan operational flow rate is 25 - 90 CFM 0n 3" and 4" pipe. (For more precision, determine flow rate by measuring Static Pressure, in WC, and correlate pressure to flow in the performance chart in the addendum.)

Under some circumstances in an outdoor installation a condensate bypass should be installed in the outlet ducting as shown. This may be particularly true in cold climate installations which require long lengths of outlet ducting or where the outlet ducting is likely to produce large amounts of condensation because of high soil moisture or outlet duct material. Schedule 20 piping and other thin-walled plastic ducting and Aluminum downspout will normally produce much more condensation than Schedule 40 piping. Schedule 40 piping is preferred for radon mitigation, all joints should fully sealed using the appropriate pipe cement on socket type fittings or flexible coupling firmly attached via worm drive screw clamps. Sealing ducting or pipe with duct tape is not acceptable on radon mitigation installations. No pipe penetrations are permitted, other than the condensation bypass. Silicon caulk is permitted for sealing purposes.



The bypass is constructed with a 45 degree Wye fitting at the bottom of the outlet stack. The bottom of the Wye is capped and fitted with a tube that connects to the inlet piping or other drain. The condensation produced in the outlet stack is collected in the Wye fitting and drained through the bypass tube. The bypass tubing may be insulated to prevent freezing.

1.8. SYSTEM MONITOR & LABEL

A System Monitor, such as a manometer (P/N 50017) or audible alarm (P/N 28001-2) is required to notify the occupants of a fan system malfunction. A System Label (provided with Manometer P/N 50017) with instructions for contacting the installing contractor for service and also identifying the necessity for regular radon tests to be conducted by the building occupants, must be conspicuously placed where the occupants frequent and can see the label.

1.9. VENTILATION

If used as a ventilation Fan any type of ducting is acceptable, however, flexible nonmetallic ducting is recommended for easy installation and quieter operation. Insulated flexible ducting is highly recommended in cold climates to prevent the warm bathroom air from forming condensation in the ducting where it is exposed to colder attic air. The outlet of the fan should always be ducted to the outside. Avoid venting the outlet of the fan directly into an attic area. The excess moisture from the bathroom can cause damage to building structure and any items stored in the attic. Multiple venting points may be connected together using a "T" or "Y" fitting. Ideally Duct should be arranged such that equal duct lengths are used between intake and "T" or "Y" fitting, this will result in equal flow rates in each intake branch. If adjustable intake grilles are used on multi-intake systems then the opening on each grill should be equal in order to minimize noise and resistance. Straight smooth runs of rigid metal ducting will present the least resistance and maximize system performance. The Equivalent Length of Rigid Metal Ducting resulting in .2" WC pressure loss for each Fan Model is provided in the specification section of these Instructions. Flexible ducting, if used, must always be as close to being fully extended as possible. Formed rigid metal duct elbows will present the least resistance and maximize system performance, recommended bend radius of elbow is at least 1.5 x duct diameter.

RP Series fans are not suitable for kitchen range hood remote ventilation applications. For quietest performance, the fan should be mounted further away from the inlet duct, near the outside vent. A minimum distance of 8 feet is recommended between the fan or T/Y of a multi-intake system and intake grille(s).

Backdraft dampers allow airflow in only one direction preventing cold/hot drafts from entering the vented area and minimize possible condensation and icing within the system while the fan is not operating. Backdraft dampers are highly recommended at each intake grille for bathroom ventilation in all cold climate installations. Installation instructions are included with Spruce backdraft dampers.

The ducting from this fan to the outside of the building has a strong effect on the airflow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow.

1.10. ELECTRICAL WIRING

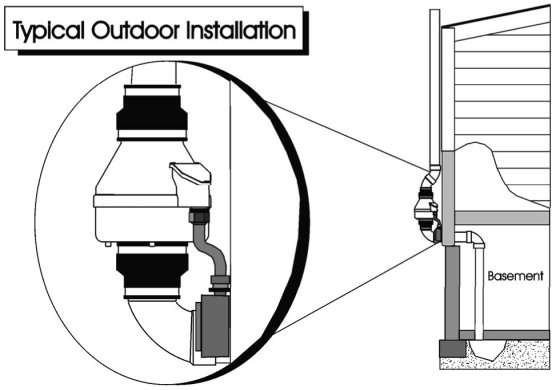
The RP Series Fans operate on standard 120V 60 Hz. AC. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA)"National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a U.L. listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly sealed to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

1.11. SPEED CONTROLS

The RP Series Fans are rated for use with electronic speed controls, however, they are generally not recommended. If used, the recommended speed control is Pass & Seymour Solid State Speed Control Cat. No. 94601-I.

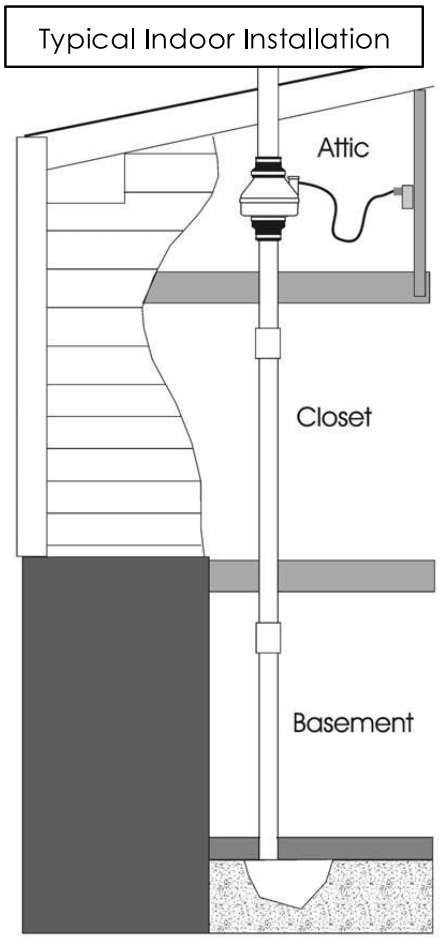
2.0 INSTALLATION

The RP Series Fan can be mounted indoors or outdoors. (It is suggested that EPA recommendations be followed in choosing the fan location.) The RP Series Fan may be mounted directly on the system piping or fastened to a supporting structure by means of optional mounting bracket



2.1 MOUNTING

Mount the RP Series Fan vertically with outlet up. Insure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.



2.2 MOUNTING BRACKET (optional)

The RP Series Fan may be optionally secured with the RadonAway P/N 25007 (25033 for RP385) mounting bracket. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

Complete piping run, using flexible couplings as means of disconnect for servicing the unit and vibration isolation. Used as a Radon Fan the fan is typically outside of the building thermal boundary, and is venting to the outside, installation of insulation around the fan is not required. If used as a ventilation fan insulation may be installed around the fan and duct work, insulation should be sized appropriately for the duct size used and secured with duct tape.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections (See Section 1.10). Note that the fan is not intended for connection to rigid metal conduit.

Fan Wire	Connection
Green	Ground
Black	AC Hot
White	AC Common

2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS & ANNUAL SYSTEM MAINTENANCE

_____**Verify** all connections are tight and **leak-free**.

_____**Insure** the RP Series Fan and all ducting is secure and vibration-free.

_____**Verify** system vacuum pressure with manometer. **Insure** vacuum pressure is within normal operating range and **less than** the maximum recommended operating pressure.

(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 Feet.)
(Further reduce Maximum Operating Pressure by 10% for High Temperature environments)
See Product Specifications. If this is exceeded, increase the number of suction points.

_____**Verify Radon levels by testing to EPA protocol.**

RP SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the RP Series Fan:

Typical CFM Vs Static Pressure "WC									
	0"	.25"	.5"	.75"	1.0"	1.25"	1.5"	1.75"	2.0"
RP140	135	103	70	14	-	-	-	-	-
RP145	166	146	126	104	82	61	41	21	3
RP260	272	220	176	138	103	57	13	-	-
RP265	334	291	247	210	176	142	116	87	52
RP380*	497	401	353	281	220	176	130	80	38

* Tested with 6" inlet and discharge pipe.

Power Consumption 120 VAC, 60Hz 1.5 Amp Maximum		Maximum Recommended Operating Pressure* (Sea Level Operation)**	
RP140	17 - 21 watts	RP140	0.8" W.C.
RP145	41 - 72 watts	RP145	1.7" W.C.
RP260	52 - 72 watts	RP260	1.5" W.C.
RP265	91 - 129 watts	RP265	2.2" W.C.
RP380	95 - 152 watts	RP380	2.0" W.C.

**Reduce by 10% for High Temperature Operation*
***Reduce by 4% per 1000 feet of altitude*

	Size	Weight	Inlet/Outlet	L.2
RP140	8.5H" x 9.7" Dia.	5.5 lbs.	4.5" OD (4.0" PVC Sched 40 size compatible)	25
RP145	8.5H" x 9.7" Dia.	5.5 lbs.	4.5" OD (4.0" PVC Sched 40 size compatible)	15
RP260	8.6H" x 11.75" Dia.	5.5 lbs.	6.0" OD	48
RP265	8.6H" x 11.75" Dia.	6.5 lbs.	6.0" OD	30
RP380	10.53H" x 13.41" Dia.	11.5 lbs.	8.0" OD	57

L.2 = Estimated Equivalent Length of Rigid Metal Ducting resulting in .2in WC pressure loss for Duct Size listed. Longer Equivalent Lengths can be accommodated at Flows Lower than that at .2in WC pressure loss (see CFM Vs Static Pressure "WC Table).

Recommended ducting: 3" or 4" RP1xx/2xx, 6" RP380, Schedule 20/40 PVC Pipe

Mounting: If used for Ventilation use 4", 6" or 8" Rigid or Flexible Ducting

Mount on the duct pipe or with optional mounting bracket.

Storage temperature range: 32 - 100 degrees F.

Normal operating temperature range: -20 - 120 degrees F.

Maximum inlet air temperature: 80 degrees F.

Continuous Duty

Class F Insulation [RP140 Class B]

Class B Insulation

Thermally Protected

3000 RPM

Rated for Indoor or Outdoor Use

LISTED
Electric Fan

Intertek
77728

Conforms to
UL STD. 507

Certified to
CAN/CSA STD.
C22.2 No.113

ENERGY STAR
RP140 Only

TESTED/CERTIFIED
2100
Home Ventilating Institute

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the GP/XP/XR/RP/SF Series Fan for shipping damage within 15 days of receipt. Notify **RadonAway® of any damages immediately**. RadonAway® is not responsible for damages incurred during shipping. However, for your benefit, RadonAway® does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open.** Return unit to factory for service.

Install the GP/XP/XR/RP/SF Series Fan in accordance with all EPA standard practices, and state and local building codes and state regulations.

Provide a copy of this instruction or comparable radon system and testing information to the building occupants after completing system installation.

WARRANTY

RadonAway® warrants that the GPX01/XP/XR/RP/SF Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 90 days from the date of purchase (the "Warranty Term").

RadonAway® will replace any Fan which fails due to defects in materials or workmanship during the Warranty Term. The Fan must be returned (at Owner's cost) to the RadonAway® factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway®.

5 YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway® will extend the Warranty Term of the fan to five (5) years from date of purchase or sixty-three (63) months from the date of manufacture, whichever is sooner, if the Fan is installed in a professionally designed and professionally installed active soil depressurization system or installed as a replacement fan in a professionally designed and professionally installed active soil depressurization system by a qualified installer. Proof of purchase and/or proof of professional installation may be required for service under this warranty. Outside the Continental United States and Canada the extended Warranty Term is limited to one (1) year from the date of manufacture.

RadonAway® is not responsible for installation, removal or delivery costs associated with this Warranty.

LIMITATION OF WARRANTY

EXCEPT AS STATED ABOVE, THE GPx01/XP/XR/RP SERIES FANS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping costs, including insurance, to and from factory.

RadonAway® 3 Saber Way
Ward Hill, MA 01835 USA TEL (978) 521-3703
FAX (978) 521-3964
Email to: Returns@RadonAway.com

Record the following information for your records:

Serial No._____
Purchase Date_____

APPENDIX 3

NON-AGENCY PERMITS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

May 23, 2017

VIA E-MAIL

Mr. Tenzin Topjor
Tibetan Community of New York and New Jersey
32-01 57th Street
Queens, NY 11377

Re: 32-01 57th Street
NYSDEC Site no. 241197
Interim Remedial Measure Work Plan

Dear Mr. Topjor:

The New York State Department of Environmental Conservation (Department), in consultation with the New York State Department of Health (NYSDOH), has reviewed the Interim Remedial Measure Work Plan (IRMWP) dated April 26, 2017 which was prepared by HAKS Engineers Architects and Land Surveyors, DPC on behalf of Tibetan Community of New York and New Jersey (the Remedial Party). The IRMWP is hereby approved.

The Remedial Party and its contractors are solely responsible for safe execution of all invasive and other field work performed under the IRMWP. The Remedial Party and its contractors must obtain all local, state, and/or federal permits or approvals that may be required to perform work under the IRMWP. Further, the Remedial Party and its contractors are solely responsible for the identification of utilities that might be affected by work under the IRMWP and implementation of all required, appropriate, or necessary health and safety measures during performance of work under the IRMWP.

The Soil Management Plan included as Appendix B of the IRMWP provides a detailed description of all procedures required to manage residual contamination at the site to ensure protection of public health and the environment.

Should you have any questions, please contact me at (718) 482-4065 or e-mail me at Ioana.munteanu-ramnic@dec.ny.gov.

Sincerely,

Ioana Munteanu-Ramnic, P.E.
Project Manager

ec: Jane O'Connell, Karen Mintzer – NYSDEC
Justin Deming, Sarita Wagh – NYSDOH
Tarek Khouri, Dorina Aliu – HAKS Engineers Architects & Land Surveyors DPC
Christine Chen – Airtech Environmental Co.
George Duke – Brown Sharlow Duke & Fogel, P.C.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

September 6, 2017

VIA E-MAIL

Mr. Tenzin Topjor
Tibetan Community of New York and New Jersey
32-01 57th Street
Woodside, Queens, New York 11377

Re: Tibetan Community Center
32-01 57th Street, Queens, NY 11377
Site #241197
Addendum to the Interim Remedial Measure Work Plan

Dear Mr. Topjor:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Addendum to the Interim Remedial Measure Work Plan (IRMWP Addendum) for the Tibetan Community Center dated August 7, 2017 and prepared by HAKS Engineers, Architects, and Land Surveyors DPC on behalf of Tibetan Community of New York and New Jersey (the Remedial Party). The IRMWP Addendum is hereby approved.

The Remedial Party and its contractors are solely responsible for safe execution of all invasive and other field work performed under this IRMWP Addendum. The Remedial Party and its contractors must obtain all local, state, and/or federal permits or approvals that may be required to perform work under this IRMWP Addendum. Further, the Remedial Party and its contractors are solely responsible for the identification of utilities that might be affected by work under this IRMWP Addendum and, implementation of all required, appropriate, or necessary health and safety measures during performance of work under this IRMWP Addendum.

Should you have any questions, please contact me at (718) 482-4065 or e-mail me at Ioana.munteanu-ramnic@dec.ny.gov.

Sincerely,

Ioana Munteanu-Ramnic, P.E.
Environmental Engineer

ec: Jane O'Connell, Karen Mintzer – NYSDEC
Justin Deming, Sarita Wagh – NYSDOH
Tarek Khouri, Dorina Aliu - HAKS
George Duke – Brown Sharlow Duke & Fogel, P.C.

NYC Buildings

PLACE OF ASSEMBLY
CERTIFICATE OF OPERATION

Certificate Number: *421479723*
Borough: *QUEENS*
Premises Address: *57-12 32ND AVENUE*
Block/Lot: *1159 / 1*
Issued On: *01/16/2019*
BIN: *4026074*
Related NB/A1 Job No: *421062094*

Name of Establishment: *PHUNTSOK DESHI HOUSE OF WORSHIP.*

Floors: *CEL*

Occupancy Classification and Description:	Number of Persons
A-3 COMMUNITY CENTER Not a cabaret	*298*

This certificate authorizes occupancy of the premises as a place of assembly for one year after its issuance, and thereafter, only for periods of time during which there is in effect a New York City Fire Department place of assembly permit, unless suspended, revoked, or superseded. This certificate is subject to the strict observance of the laws, rules and regulations enacted for the protection of the public in such places of assembly. Approved seating plans must be kept on premises at all times.

Borough Commissioner: **Commissioner:** James S. Oddo

MUST BE POSTED CONSPICUOUSLY AT ALL TIMES

This permit copy created on 04/25/2025 reflects the Commissioner(s) as of such date.

OP-111 (4/13)

NYC Buildings

PLACE OF ASSEMBLY
CERTIFICATE OF OPERATION

Certificate Number: *421479732*
Borough: *QUEENS*
Premises Address: *57-12 32ND AVENUE*
Block/Lot: *1159 / 1*
Issued On: *01/16/2019*
BIN: *4026074*
Related NB/A1 Job No: *421062094*

Name of Establishment: *PHUNTSOK DESHI HOUSE OF WORSHIP*

Floors: *001*

Occupancy Classification and Description:	Number of Persons
A-3 COMMUNITY CENTER Not a cabaret	*760*

This certificate authorizes occupancy of the premises as a place of assembly for one year after its issuance, and thereafter, only for periods of time during which there is in effect a New York City Fire Department place of assembly permit, unless suspended, revoked, or superseded. This certificate is subject to the strict observance of the laws, rules and regulations enacted for the protection of the public in such places of assembly. Approved seating plans must be kept on premises at all times.

Borough Commissioner: **Commissioner:** James S. Oddo

MUST BE POSTED CONSPICUOUSLY AT ALL TIMES

This permit copy created on 04/25/2025 reflects the Commissioner(s) as of such date.

OP-111 (4/13)

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NYC Department of Buildings

Work Permit Data

Premises: 57-02 32 AVENUE QUEENS **Filed At: 57-12 32ND AVE QUEENS**

BIN: 4026074 Block: 1159 Lot: 1 **Job Type: A3 - ALTERATION TYPE 3**

View Permit History

DOB NOW: *Inspections*

Job No:	421313830			**Fee:**	EXEMPT
Permit No:	421313830-01-EQ-FN	**Issued:**	10/27/2016	**Expires:**	10/27/2017
Seq. No.:	02	**Filing Date:**	10/27/2016 ERENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	04/18/2016	**Work Approved:**	04/18/2016

ALTERATION TYPE 3 - CONSTRUCTION EQUIPMENT - FENCE
PROPOSED INSTALLATION 300 LINEAR FEET X 8 FEET HIGH PLYWOOD FENCE FOR AN ALTERATION CONSTRUCTION FILED SEPARATELY UNDER APPLICATION # 421062094. NO CHANGE IN USE OCCUPANCY OR EGRESS UNDER THIS APPLICATION.

Use: A-3 - ASSEMBLY: OTHER **Landmark:** NO **Stories:** 1

Review is requested under Building Code: 1968

Issued to: REFIK RADONCIC

GC SAFETY REGISTRATION: GC 005388

Business: T. & R. CONSTRUCTION CORP

14-08 31ST. AVENUE, SUITE1 LONG ISLAND CIT NY 11106

Phone: 718-545-5951

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

Work Permit Data

Premises: 57-02 32 AVENUE QUEENS **Filed At: 57-12 32ND AVENUE QUEENS**

BIN: 4026074 Block: 1159 Lot: 1 **Job Type: A2 - ALTERATION TYPE 2**

View Permit History | **Inspection History**

DOB NOW: *Inspections*

Job No:	421066713			**Fee:**	EXEMPT
Permit No:	421066713-01-PL	**Issued:**	11/09/2017	**Expires:**	11/09/2018
Seq. No.:	02	**Filing Date:**	11/09/2017 ERENEWAL	**Status:**	ISSUED
Work:		**Proposed Job Start:**	05/24/2016	**Work Approved:**	04/21/2015

PLUMBING - ALTERATION TYPE 2
GENERAL MECHANICAL AND PLUMBING CHANGES TAKING PLACE IN THE CELLAR AND 1ST FLOOR, AS INDICATED ON PLANS FILED HEREWITH. THIS APPLICATION IS IN CONJUNCTION WITH ALT-1 JOB # 421062094.

Use: A-3 - ASSEMBLY: OTHER **Landmark:** NO **Stories:** 1
Site Fill: NOT APPLICABLE
Review is requested under Building Code: 2008

Issued to: OVIDIU LAZAR **MASTER PLUMBER**
Business: MYRTO PLUMBING & HVAC COR **License No:** MP 002221
14-52 28TH AVENUE ASTORIA NY 11102 **Phone:** 718-606-1134

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

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NYC Department of Buildings

Query Inspection Results:4-18-21793

Premises: 57-02 32 AVENUE QUEENS
BIN: 4026074 Block: 1159 Lot: 1

Job No: 421066713 01
Permit Number: 421066713
Permit Type: PLUMBING

Licensee: P 002221
GAS SERVICE | COMMENTS

Floor - Apts - Insp Area: - -
Work Description: PLUMBING - NO DESCRIPTION

Inspector Badge:	400P	**Date of Inspection:**	05/23/2018	**Time Scheduled:**	0830
Inspection Reference #:	0020658437	**Status:**	INSPECTION CONDUCTED	**Type:**	3 - ADVANCE NOTICE CERTIFICATION

Accela Inspection #: 000000000000000002294063
Scheduled Comments: N/A

RESULTS:			
FLOOR	**REF NO**	**TEST / INSPECTION**	**RESULT**
001	2294063	STORM DRAINAGE-ST-PIPING-ROUGHING	PASS

(*) Changes to these tests after the initial inspection scheduling may not be reflected on this website.

COMMENTS: TOTAL: 0

GAS DETAILS - AUTHORIZED FOR THE FOLLOWING END USES: NO AUTHORIZATIONS

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

APPENDIX 4

DAILY REPORTS AND MONTHLY REPORTS

Hydro Tech Environmental Air Monitoring Form

Project Name: 170203
Site Location: 32-01 57th Street Queens, NY 11377
Date: 7-17-17
HTE Personnel: Silvestre Castillo
Weather: Sunny
Temperature: Low 70's
Humidity: 83%
Wind Direction: SW 3 mph

TIME	Air Monitoring Equipment Make and Model	Air Particulate levels Sampling Results: (mg/m³)	Visible Dust (Y/N)	Odors (Y/N)	PID Readings (PPM)	Corrective Action Taken	Additional comments S.A.B=Same As Before
7:00 AM	PID 2000 / PDR 1500						
7:15 AM	PID 2000 / PDR 1500						
7:30 AM	PID 2000 / PDR 1500						
7:45 AM	PID 2000 / PDR 1500						
8:00 AM	PID 2000 / PDR 1500						
8:15 AM	PID 2000 / PDR 1500						
8:30 AM	PID 2000 / PDR 1500	0.025	N	N	0.0	N/A	HTE Onsite
8:45 AM	PID 2000 / PDR 1500	0.013	N	N	0.0	N/A	Background Check
9:00 AM	PID 2000 / PDR 1500	0.020	N	N	0.0	N/A	Machinery Warming
9:15 AM	PID 2000 / PDR 1500	0.027	N	N	0.0	N/A	Begin removing asphalt layer
9:30 AM	PID 2000 / PDR 1500	0.043	N	N	0.0	N/A	Removing asphalt layer
9:45 AM	PID 2000 / PDR 1500	0.057	N	N	0.0	N/A	S.A.B
10:00 AM	PID 2000 / PDR 1500	0.048	N	N	0.0	N/A	S.A.B
10:15 AM	PID 2000 / PDR 1500	0.029	N	N	0.0	N/A	Removing asphalt layer
10:30 AM	PID 2000 / PDR 1500	0.037	N	N	0.0	N/A	S.A.B
10:45 AM	PID 2000 / PDR 1500	0.026	N	N	0.0	N/A	S.A.B
11:00 AM	PID 2000 / PDR 1500	0.041	N	N	0.0	N/A	Removing asphalt layer
11:15 AM	PID 2000 / PDR 1500	0.035	N	N	0.0	N/A	S.A.B
11:30 AM	PID 2000 / PDR 1500	0.028	N	N	0.0	N/A	S.A.B
11:45 AM	PID 2000 / PDR 1500	0.040	N	N	0.0	N/A	Low Activity
12:00 PM	PID 2000 / PDR 1500	0.027	N	N	0.0	N/A	Break for lunch
12:15 PM	PID 2000 / PDR 1500	0.012	N	N	0.0	N/A	No activity
12:30 PM	PID 2000 / PDR 1500	0.020	N	N	0.0	N/A	Resume work
12:45 PM	PID 2000 / PDR 1500	0.035	N	N	0.0	N/A	loading container
1:00 PM	PID 2000 / PDR 1500	0.044	N	N	0.0	N/A	S.A.B
1:15 PM	PID 2000 / PDR 1500	0.051	N	N	0.0	N/A	S.A.B
1:30 PM	PID 2000 / PDR 1500	0.046	N	N	0.0	N/A	loading container
1:45 PM	PID 2000 / PDR 1500	0.043	N	N	0.0	N/A	Loading container done
2:00 PM	PID 2000 / PDR 1500	0.032	N	N	0.0	N/A	HTE Offsite
2:15 PM	PID 2000 / PDR 1500						
2:30 PM	PID 2000 / PDR 1500						
2:45 PM	PID 2000 / PDR 1500						
3:00 PM	PID 2000 / PDR 1500						
3:15 PM	PID 2000 / PDR 1500						
3:30 PM	PID 2000 / PDR 1500						
3:45 PM	PID 2000 / PDR 1500						
4:00 PM	PID 2000 / PDR 1500						
4:15 PM	PID 2000 / PDR 1500						
4:30 PM	PID 2000 / PDR 1500						
4:45 PM	PID 2000 / PDR 1500						
5:00 PM	PID 2000 / PDR 1500						

Particulate Air Monitoring will be conducted during ground intrusuve activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical

As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaion of dust supression techniques to allow work to continue.

As per DER-10 Technical Guidance; any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

Hydro Tech Environmental Air Monitoring Form

Project Name:
Site Location: 32-01 57TH STREET QUEENS
Date: 8/9/17
HTE Personnel: Jordan Pineda
Weather: Temp: Humidity: Wind Direction:

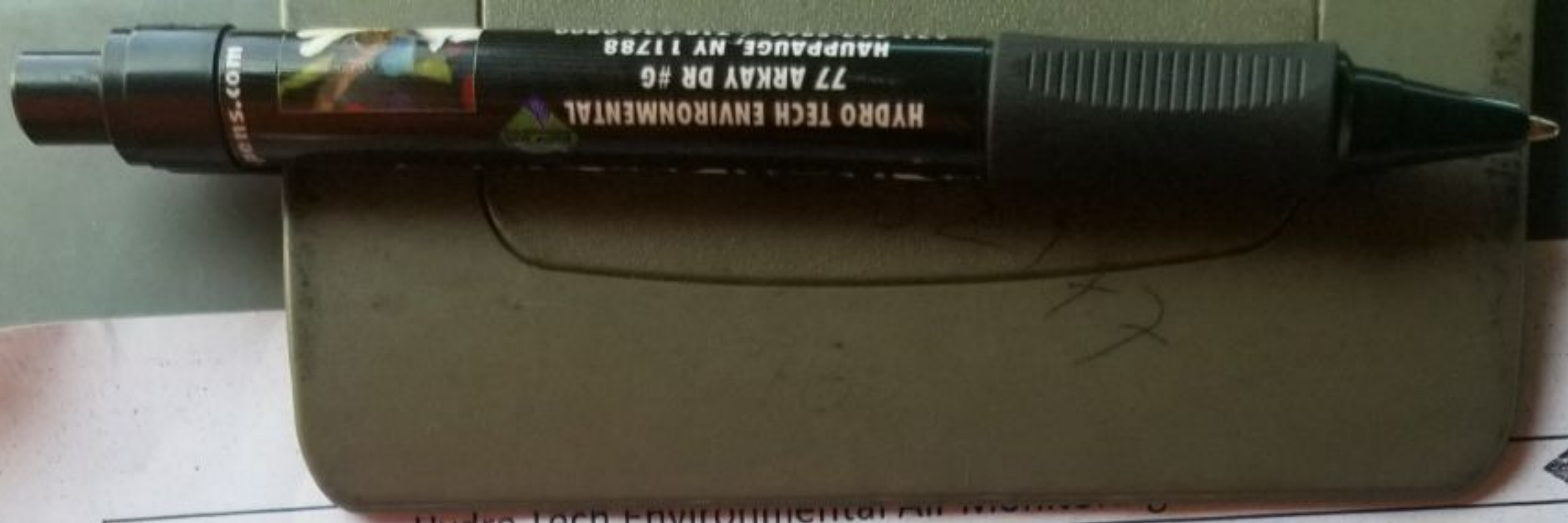
TIME	Air Monitoring Stations Make and Model	Air Particulate levels Sampling Results: Up gradient (mg/m³)	PID Readings (PPM)	Air Particulate levels Sampling Results: Down gradient (mg/m³)	PID Readings (PPM)	Odors (Y/N)	Visible Dust (Y/N)	Corrective Action Taken	Additional comments
7:00 AM	TSE-8530 Dust Trak II	0025	0.0			N	N		Setting up SIR
7:15 AM	TSE-8530 Dust Trak II	0030	0.0						Many machinery
7:30 AM	TSE-8530 Dust Trak II	0031	0.0						loading & trucks
7:45 AM	TSE-8530 Dust Trak II	0029	0.0						" " "
8:00 AM	TSE-8530 Dust Trak II	0095	0.0						No excavation
8:15 AM	TSE-8530 Dust Trak II	0072	0.0						" " "
8:30 AM	TSE-8530 Dust Trak II	0081	0.0						machine broke
8:45 AM	TSE-8530 Dust Trak II	0091	0.0						down
9:00 AM	TSE-8530 Dust Trak II	0072	0.0						" " "
9:15 AM	TSE-8530 Dust Trak II	0029	0.0						" " "
9:30 AM	TSE-8530 Dust Trak II	0028	0.0						
9:45 AM	TSE-8530 Dust Trak II	0050	0.0						
10:00 AM	TSE-8530 Dust Trak II	0050	0.0						
10:15 AM	TSE-8530 Dust Trak II	0039	0.0						
10:30 AM	TSE-8530 Dust Trak II	0032	0.0						
10:45 AM	TSE-8530 Dust Trak II	0025	0.0						
11:00 AM	TSE-8530 Dust Trak II	0029	0.0						
11:15 AM	TSE-8530 Dust Trak II	0032	0.0						
11:30 AM	TSE-8530 Dust Trak II	0030	0.0						
11:45 AM	TSE-8530 Dust Trak II	0031	0.0						
12:00 PM	TSE-8530 Dust Trak II	0039	0.0						
12:15 PM	TSE-8530 Dust Trak II	0040	0.0						
12:30 PM	TSE-8530 Dust Trak II	0025	0.0						
12:45 PM	TSE-8530 Dust Trak II	0027	0.0						
1:00 PM	TSE-8530 Dust Trak II	0028	0.0						
1:15 PM	TSE-8530 Dust Trak II	0029	0.0						
1:30 PM	TSE-8530 Dust Trak II	0027	0.0						
1:45 PM	TSE-8530 Dust Trak II	0029	0.0						
2:00 PM	TSE-8530 Dust Trak II	0051	0.0						
2:15 PM	TSE-8530 Dust Trak II								
2:30 PM	TSE-8530 Dust Trak II								
2:45 PM	TSE-8530 Dust Trak II								
3:00 PM	TSE-8530 Dust Trak II								
3:15 PM	TSE-8530 Dust Trak II								
3:30 PM	TSE-8530 Dust Trak II								
3:45 PM	TSE-8530 Dust Trak II								
4:00 PM	TSE-8530 Dust Trak II								

Particulate Air Monitoring will be conducted during ground intrusive activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical Guidance for Site Investigation and Remediation (Appendix
As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaion of dust supression techniques to allow work to continue.
As per DER-10 Technical Guidance, any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

SOIL DISPOSAL AND TRUCKING LOG SHEET

Shipment Date	Manifest #	Transporter Name / Truck Name	License Plate	On-site Location (Approx. Depth)	Off-site Disposal Facility	Tonnage	Truck #
3/9/17	1299212	Shirley #4	4P9944	2 feet	Apex	22	1
							2
							3
							4
							5
							6
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TAKEUCHI
1520



Hydro Tech Environmental Air Monitoring

Project Name:
Site Location: 32-01 57th St Queens
Date: 8/10/17
HTE Personnel: Joe mP
Weather:
Temperature:
Humidity:
Wind Direction:

TIME	Air Monitoring Equipment Make and Model	Air Particulate levels Sampling Results: (mg/m³)	Visible Dust (Y/N)	Odors (Y/N)	PID Readings (PPM)	Corrective Action Taken	Additional comments
7:00 AM	PID 2000 / PDR 1500	0.020	N	N	0.0		Entering trucks
7:15 AM	PID 2000 / PDR 1500	0050	N				"
7:30 AM	PID 2000 / PDR 1500	0045	N				Loading 1st truck
7:45 AM	PID 2000 / PDR 1500	0061	N				"
8:00 AM	PID 2000 / PDR 1500	0062	N				"
8:15 AM	PID 2000 / PDR 1500	0062	N				Loading 2nd truck
8:30 AM	PID 2000 / PDR 1500	0055	N				"
8:45 AM	PID 2000 / PDR 1500	0077	N				"
9:00 AM	PID 2000 / PDR 1500	0064	N				Stock piling
9:15 AM	PID 2000 / PDR 1500	0071	N				"
9:30 AM	PID 2000 / PDR 1500	0025	N				excavating Source Areas to 1-foot depth
9:45 AM	PID 2000 / PDR 1500	0050	N				"
10:00 AM	PID 2000 / PDR 1500	0049	N				"
10:15 AM	PID 2000 / PDR 1500	0074	N				Loading 3rd truck
10:30 AM	PID 2000 / PDR 1500	0059	N				"
10:45 AM	PID 2000 / PDR 1500	0055	N				Loading 4th truck
11:00 AM	PID 2000 / PDR 1500	0052	N				"
11:15 AM	PID 2000 / PDR 1500	0072	N				Stock piling
11:30 AM	PID 2000 / PDR 1500	0081	N				"
11:45 AM	PID 2000 / PDR 1500	0071	N				leveling Area
12:00 PM	PID 2000 / PDR 1500	0052	N				"
12:15 PM	PID 2000 / PDR 1500	0055	N				Excavating Little Area
12:30 PM	PID 2000 / PDR 1500	0.111	Y			Spraying water	"
12:45 PM	PID 2000 / PDR 1500	0112	Y				NO ACTIVITY
1:00 PM	PID 2000 / PDR 1500	0115	Y				"
1:15 PM	PID 2000 / PDR 1500	0120	Y				"
1:30 PM	PID 2000 / PDR 1500	0160	Y				
1:45 PM	PID 2000 / PDR 1500	0100	Y				
2:00 PM	PID 2000 / PDR 1500	0102	Y				
2:15 PM	PID 2000 / PDR 1500	0092	N				
2:30 PM	PID 2000 / PDR 1500	0093	N				
2:45 PM	PID 2000 / PDR 1500	0095	N				
3:00 PM	PID 2000 / PDR 1500	0090	N				
3:15 PM	PID 2000 / PDR 1500	0112	N		0.0		
3:30 PM	PID 2000 / PDR 1500	0095	N		0.0		
3:45 PM	PID 2000 / PDR 1500	0249	N				
4:00 PM	PID 2000 / PDR 1500						
4:15 PM	PID 2000 / PDR 1500						
4:30 PM	PID 2000 / PDR 1500						
4:45 PM	PID 2000 / PDR 1500						
5:00 PM	PID 2000 / PDR 1500						

Particulate Air Monitoring will be conducted during ground intrusuve activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical
As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaion of dust supression techniques to allow work to continue.
As per DER-10 Technical Guidance, any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

SOIL DISPOSAL AND TRUCKING LOG SHEET

Shipment Date	Manifest #	Tansporter Name / Truck Name #	License Plate	On-Site Location (Approx. Depth)	Off-Site Disposal Facility	Tonnage	Truck #
8/10/17	1299212	JC 19	A5319F	1 Foot	PPWPA	20 tons	1
↓	1299213	JC 55	AT3844	↓	↓	↓	2
	1299214	JC 19	A5319F				3
	1299215	JC 55	AT3844				4
							5
							6
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CAT


CAT
SOLID WASTE
NJ 777
NJ 893
313C CR



Hydro Tech Environmental Air Monitoring Form

Project Name: 170198
Site Location: 32-01 57th St
Date: 8-10-17
HTE Personnel: Javier
Weather: Sunny
Temp: 74°F Humidity: 62% Wind Direction: S

TIME	Air Monitoring Stations Make and Model	Air Particulate levels Sampling Results: Up gradient (mg/m³)	PID Readings (PPM)	Air Particulate levels Sampling Results: Down gradient (mg/m³)	PID Readings (PPM)	Odors (Y/N)	Visible Dust (Y/N)	Corrective Action Taken	Additional comments
7:00 AM	TSE-8530 Dust Trak II	0.005	0.0	0.007	0.0	N	N	N/A	HTE in Site
7:15 AM	TSE-8530 Dust Trak II	0.007	0.0	0.009	0.0	"	"	"	Loading Truck
7:30 AM	TSE-8530 Dust Trak II	0.009	0.0	0.11	0.0	"	"	"	Loading Truck
7:45 AM	TSE-8530 Dust Trak II	0.008	0.0	0.13	0.0	"	"	"	Loading Truck
8:00 AM	TSE-8530 Dust Trak II	0.010	0.0	0.15	0.0	"	"	"	Loading Truck
8:15 AM	TSE-8530 Dust Trak II	0.012	0.0	0.10	0.0	"	"	"	Loading Truck
8:30 AM	TSE-8530 Dust Trak II	0.014	0.0	0.14	0.0	"	"	"	Loading Truck
8:45 AM	TSE-8530 Dust Trak II	0.011	0.0	0.12	0.0	"	"	"	Loading Truck
9:00 AM	TSE-8530 Dust Trak II	0.013	0.0	0.15	0.0	"	"	"	Loading Truck
9:15 AM	TSE-8530 Dust Trak II	0.015	0.0	0.17	0.0	"	"	"	Stock piling soil
9:30 AM	TSE-8530 Dust Trak II	0.017	0.0	0.20	0.0	"	"	"	"
9:45 AM	TSE-8530 Dust Trak II	0.020	0.0	0.22	0.0	"	"	"	"
10:00 AM	TSE-8530 Dust Trak II	0.022	0.0	0.25	0.0	"	"	"	"
10:15 AM	TSE-8530 Dust Trak II	0.024	0.0	0.27	0.0	"	"	"	"
10:30 AM	TSE-8530 Dust Trak II	0.030	0.0	0.31	0.0	"	"	"	Low activity
10:45 AM	TSE-8530 Dust Trak II	0.025	0.0	0.28	0.0	"	"	"	"
11:00 AM	TSE-8530 Dust Trak II	0.032	0.0	0.33	0.0	"	"	"	"
11:15 AM	TSE-8530 Dust Trak II	0.026	0.0	0.19	0.0	"	"	"	"
11:30 AM	TSE-8530 Dust Trak II	0.032	0.0	0.35	0.0	"	"	"	"
11:45 AM	TSE-8530 Dust Trak II	0.027	0.0	0.40	0.0	"	"	"	Stock piling soil
12:00 PM	TSE-8530 Dust Trak II	0.035	0.0	0.37	0.0	"	"	"	"
12:15 PM	TSE-8530 Dust Trak II	0.029	0.0	0.41	0.0	"	"	"	"
12:30 PM	TSE-8530 Dust Trak II	0.037	0.0	0.38	0.0	"	"	"	Loading Truck
12:45 PM	TSE-8530 Dust Trak II	0.039	0.0	0.43	0.0	"	"	"	Loading Truck
1:00 PM	TSE-8530 Dust Trak II	0.041	0.0	0.39	0.0	"	"	"	Loading Truck
1:15 PM	TSE-8530 Dust Trak II	0.038	0.0	0.44	0.0	"	"	"	Loading Truck
1:30 PM	TSE-8530 Dust Trak II	0.042	0.0	0.46	0.0	"	"	"	Stock piling soil
1:45 PM	TSE-8530 Dust Trak II	0.044	0.0	0.48	0.0	"	"	"	"
2:00 PM	TSE-8530 Dust Trak II	0.636	0.0	0.050	0.0	"	"	"	"
2:15 PM	TSE-8530 Dust Trak II							"	"
2:30 PM	TSE-8530 Dust Trak II							"	"
2:45 PM	TSE-8530 Dust Trak II							"	"
3:00 PM	TSE-8530 Dust Trak II								HTE Off Site
3:15 PM	TSE-8530 Dust Trak II								
3:30 PM	TSE-8530 Dust Trak II								
3:45 PM	TSE-8530 Dust Trak II								
4:00 PM	TSE-8530 Dust Trak II								

Particulate Air Monitoring will be conducted during ground intrusive activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical Guidance for Site Investigation and Remediation (Appendix
As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaton of dust supression techniques to allow work to continue.
As per DER-10 Technical Guidance, any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

SOIL DISPOSAL AND TRUCKING LOG SHEET

Shipment Date	Manifest #	Transporter Name / Truck Name	License Plate	On-site Location (Approx. Depth)	Off-site Disposal Facility	Tonnage	Truck #
8-11-17	1299504	JC Transport #31	AT 779U	(0-2 WC-1)	Carteret NJ	23	1
"	1299501	" #30	AT 778U	"	"	"	2
"	1299500	" #30	AT 778U	"	"	"	3
"	1299499	" #31	AT 779U	"	"	"	4
							5
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CAT
SOLID WASTE
NJ 777
NJ 883
DE-SW1492
313C


CAT
TRANSPORT
30

Hydro Tech Environmental Air Monitoring Form

Project Name: 170203
Site Location: 32-01 57th Street Flushing, NY 11377
Date: 8-18-17
HTE Personnel: Silvestre Castillo
Weather: Overcast / Rain
Temperature: Mid 70's
Humidity: 100%
Wind Direction: NE 9 mph

TIME	Air Monitoring Equipment Make and Model	Air Particulate levels Sampling Results: (mg/m³)	Visible Dust (Y/N)	Odors (Y/N)	PID Readings (PPM)	Corrective Action Taken	Additional comments
							HTE Onsite
7:00 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Background check
7:15 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Main Key work Jo
7:30 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
7:45 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
8:00 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Earth movement
8:15 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
8:30 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
8:45 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Heavy Rain
9:00 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
9:15 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Low activity
9:30 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Earth movement
9:45 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	S.A.B
10:00 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	S.A.B
10:15 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Low activity
10:30 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
10:45 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
11:00 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Earth movement
11:15 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
11:30 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks
11:45 AM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Loading trucks dom
12:00 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Break for lunch
12:15 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	No activity
12:30 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Resume work
12:45 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Earth movement
1:00 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	S.A.B
1:15 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	S.A.B
1:30 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	S.A.B
1:45 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	Stockpiling
2:00 PM	PID 2000 / PDR 1500	N/A	N	N	N/A	N/A	HTE Offsite
2:15 PM	PID 2000 / PDR 1500						
2:30 PM	PID 2000 / PDR 1500						
2:45 PM	PID 2000 / PDR 1500						
3:00 PM	PID 2000 / PDR 1500						
3:15 PM	PID 2000 / PDR 1500						
3:30 PM	PID 2000 / PDR 1500						
3:45 PM	PID 2000 / PDR 1500						
4:00 PM	PID 2000 / PDR 1500						
4:15 PM	PID 2000 / PDR 1500						
4:30 PM	PID 2000 / PDR 1500						
4:45 PM	PID 2000 / PDR 1500						
5:00 PM	PID 2000 / PDR 1500						

S.A.B = Same As Before

Particulate Air Monitoring will be conducted during around intrusuve activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical

As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaion of dust supression techniques to allow work to continue.

As per DER-10 Technical Guidance, any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

32-01 57th St Queens, NY 11377

SOIL DISPOSAL AND TRUCKING LOG SHEET

Shipment Date	Manifest #	Transporter Name / Truck Name	License Plate	On-Site Location (Approx. Depth)	Off-Site Disposal Facility	Tonnage	Truck #
8-18-17	1529874	JDC 8	AS710D	WC-1 (0'-2')	P PAH, NJ	23	1
	1529875	" 7	AS813M				2
	1523908	" 11	AT937T				3
	1523909	" 10	AT116L				4
	1529216	" 8	AS710D				5
	1523911	" 7	AS813M	"	"	"	6
							7
							8
							9
							10
							11
							12
							13
							14
							15
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							18
							19
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							26
							27
							28


CAT
JDC
TRUCKING
75 WINDSOR ST.
KEARNY, N.J. 07032
USDOT 1247231
GVW 80,000


CAT
Peterbilt
New Jersey
A5 813M


CAT

Hydro Tech Environmental Air Monitoring Form

Project Name: 170202
Site Location: 35-01 50th Street, Flushing, NY 11377
Date: 12-21-17
HTE Personnel: Silvestre Castillo
Weather: Mostly Sunny
Temperature: 45°F
Humidity: 68%
Wind Direction: 0 mph

TIME	Air Monitoring Equipment Make and Model	Air Particulate levels Sampling Results: (mg/m³)	Visible Dust (Y/N)	Odors (Y/N)	PID Readings (PPM)	Corrective Action Taken	Additional comments
7:00 AM	PID 2000 / PDR 1500						HTE Onsite
7:15 AM	PID 2000 / PDR 1500	0.031	N	N	0.0	N/A	Background Check
7:30 AM	PID 2000 / PDR 1500	0.027	N	N	0.0	N/A	Machinery Warm up
7:45 AM	PID 2000 / PDR 1500	0.025	N	N	0.0	N/A	Loading trucks
8:00 AM	PID 2000 / PDR 1500	0.033	N	N	0.0	N/A	Loading trucks
8:15 AM	PID 2000 / PDR 1500	0.029	N	N	0.0	N/A	Earth movement
8:30 AM	PID 2000 / PDR 1500	0.035	N	N	0.0	N/A	Loading trucks
8:45 AM	PID 2000 / PDR 1500	0.041	N	N	0.0	N/A	loading trucks
9:00 AM	PID 2000 / PDR 1500	0.030	N	N	0.0	N/A	loading trucks
9:15 AM	PID 2000 / PDR 1500	0.040	N	N	0.0	N/A	Earth movement
9:30 AM	PID 2000 / PDR 1500	0.037	N	N	0.0	N/A	S.A.B
9:45 AM	PID 2000 / PDR 1500	0.026	N	N	0.0	N/A	Low activity
10:00 AM	PID 2000 / PDR 1500	0.038	N	N	0.0	N/A	Earth movement
10:15 AM	PID 2000 / PDR 1500	0.045	N	N	0.0	N/A	S.A.B
10:30 AM	PID 2000 / PDR 1500	0.051	N	N	0.0	N/A	S.A.B
10:45 AM	PID 2000 / PDR 1500	0.057	N	N	0.0	N/A	S.A.B
11:00 AM	PID 2000 / PDR 1500	0.043	N	N	0.0	N/A	Stockpiling
11:15 AM	PID 2000 / PDR 1500	0.040	N	N	0.0	N/A	S.A.B
11:30 AM	PID 2000 / PDR 1500	0.042	N	N	0.0	N/A	S.A.B
11:45 AM	PID 2000 / PDR 1500	0.050	N	N	0.0	N/A	S.A.B
12:00 PM	PID 2000 / PDR 1500	0.055	N	N	0.0	N/A	Loading trucks
12:15 PM	PID 2000 / PDR 1500	0.057	N	N	0.0	N/A	loading trucks
12:30 PM	PID 2000 / PDR 1500	0.049	N	N	0.0	N/A	Earth movement
12:45 PM	PID 2000 / PDR 1500	0.052	N	N	0.0	N/A	loading trucks
1:00 PM	PID 2000 / PDR 1500	0.044	N	N	0.0	N/A	loading trucks/dirt
1:15 PM	PID 2000 / PDR 1500	0.039	N	N	0.0	N/A	Break for lunch
1:30 PM	PID 2000 / PDR 1500	0.037	N	N	0.0	N/A	NO activity
1:45 PM	PID 2000 / PDR 1500	0.041	N	N	0.0	N/A	Resume work
2:00 PM	PID 2000 / PDR 1500	0.045	N	N	0.0	N/A	Earth movement
2:15 PM	PID 2000 / PDR 1500	0.046	N	N	0.0	N/A	S.A.B
2:30 PM	PID 2000 / PDR 1500	0.049	N	N	0.0	N/A	S.A.B
2:45 PM	PID 2000 / PDR 1500	0.052	N	N	0.0	N/A	Stockpiling
3:00 PM	PID 2000 / PDR 1500	0.044	N	N	0.0	N/A	S.A.B
3:15 PM	PID 2000 / PDR 1500	0.039	N	N	0.0	N/A	HTE offsite
3:30 PM	PID 2000 / PDR 1500						
3:45 PM	PID 2000 / PDR 1500						
4:00 PM	PID 2000 / PDR 1500						
4:15 PM	PID 2000 / PDR 1500						
4:30 PM	PID 2000 / PDR 1500						
4:45 PM	PID 2000 / PDR 1500						
5:00 PM	PID 2000 / PDR 1500						

S.A.B=Spunk to Before

Particulate Air Monitoring will be conducted during ground intrusuve activities at the Site in accordance with the Fugitive Dust and Particulate Monitoring from DER-10 Technical
As per DER-10 Technical Guidance, any particular levels to exceed 0.10 mg/m³ will result in the implementaion of dust supression techniques to allow work to continue.
As per DER-10 Technical Guidance, any particular levels to exceed 0.15 mg/m³ will result in the work to stop immediately.

32-01 57th St Flushing, NY 11377

SOIL DISPOSAL AND TRUCKING LOG SHEET

Shipment Date	Manifest #	Transporter Name / Truck Name	License Plate	On-Site Location (Approx. Depth)	Off-Site Disposal Facility	Tonnage	Truck #
8-21-17	939213	RLS 68	AS806Y	WC-1 (0-2)	PRVR, NJ	23	1
	939214	Shirley 14	AP252U				2
	1275043	RLS 68	AS806Y				3
	1275044	Shirley 14	AP252U				4
	1434796	JDC 10	AT1161				5
	1434795	" 11	AT1327				6
							7
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							28


CAT
313C CR
CAT


Rocky Mountain
Instruments


CAT
5271
68

ATANE DESIGN AND CONSTRUCTION CONSULTANTS
PM/CM | ENGINEERING | ARCHITECTURE
SPECIAL INSPECTIONS | SURVEY/MAPPING | ENVIRONMENTAL
EXCEL.TOGETHER.

SITE INSPECTION REPORT

Prepared By: ATANE

Site Number:	241197	**Report Date:**	10/24/2018	**Inspection Date**	10/23/2018

Project Name:	**32-01 57th Street, Woodside, NY**

Site Conditions:

Weather:

Temperature:	57 °F	**Wind:**	N – 0 mph	**Cloud Cover:**	Partly Sunny

On-Site Activity:

- Minor Administrative work on site

Inspection Objectives:

- To collect Indoor and Outdoor Ambient Air Samples

Activity Performed:

- ATANE Engineer, Riasat Quadir on-site @ 8.00 AM
- 2 Indoor and 1 Outdoor Ambient Air sample collected over a period of 8 hours using Summa Canisters with flow regulators provided by the Lab. The samples shall be analyzed for Total VOCs via EPA Method TO-15. COC Attached.

Non Conformances / Issues :

- Sample ID IA1 in the cellar pressure dropped to 3 Hg after 7 hours so it had to be stopped prematurely.

Photo Log

Ambient Air Sampling Locations	  
Ambient Air Sampling Pre-Start	 

HAKS
Client Focused - Quality Services

MONTHLY PROJECT STATUS REPORT

Prepared By: HAKS

Site Number:	241197	**Report Date:**	9/10/2018	**Report Duration**	Aug 10th to Sept 10th, 2018

Project Name:	**32-01 57th Street, Woodside, NY**

Progress Update:

- Sub-slab Depressurization System is running. All required testing including alarm tests performed at startup.
- No remedial activities performed onsite during the monthly period this report covers.
- Building is unoccupied and waiting for Building Occupancy Certificate.

Scheduled Activity:

- Following IRM Work Plan, Indoor and Outdoor air quality sampling will be conducted both On-site & Off-site upon Client's access confirmation. Tentative schedule, as follows:

  Onsite & Offsite Air Sampling-

  Tentative schedule will be confirmed by the client for Indoor Air Sampling (8 hour- breathable zone) within the Tibetan community Center

  Onsite Air Sampling Day 2-
- Vapor Concentrations to be measured with a PID (hourly, for 5 hours) at the effluent of the SVE system
- Vacuum test on the SVE well to be schedule within the same sampling timeframe
- No Sub-Slab Vapor testing required off site.

Communication:

- Onsite meeting with HAKS and Tibetan Community to meet the new Board Members to discuss the final steps to obtain DEC closure for the site
- Conference Call scheduled on 30th August 2018 included:
  - Attended by DEC representatives Jane O'Connell and Man-tsz Yau; HAKS team and the Tibetan Community Board Members: Tenzin Topjor, Sonam Gyephel.
- Items discussed:
  - Sampling Schedule and other required testing
  - Environmental Easement Preparation
  - Closure Report preparation and timeframe for approval
  - Updates on remainder deliverables (Site Management Plan)
  - Future Plans for keeping the SSDS active, which depends on future analytical results

Sampling Activity & Analysis:

- No On-site & Off-site sampling activity performed for the reporting period.

Photo Log

N/A	

ATANE DESIGN AND CONSTRUCTION CONSULTANTS

40 Wall Street, 11th Fl
New York, NY 10005
Phone: (212) 747-1997

ataneconsulting.com

EXCEL.TOGETHER.

MONTHLY PROJECT STATUS REPORT

Prepared By: ATANE Consulting

Site Number:	241197	**Report Date:**	10/09/2018	**Report Duration**	Sept 11th, 2018 to Oct 10th, 2018

Project Name:	**32-01 57th Street, Woodside, NY**

Progress Update:

- Sub-slab Depressurization System is running. All required testing including alarm tests performed at startup.
- No remedial activities performed onsite during the monthly period this report covers.
- Building is unoccupied and waiting for Building Occupancy Certificate.
- Post Start up Vacuum testing performed on 09/18/2018
- Onsite air Sampling performed on 09/29/2018

Scheduled Activity:

- No progress recorded for access to the neighboring residence to perform **Offsite Air Sampling**
- Items pending:
  - Environmental Easement Preparation
  - Access granting for Offsite Air Sampling
  - Timeframe for Closure Report

Communication: - Client sent a letter to the owner of the adjacent letter asking to grant permission to perform the offsite air sampling. No responses have been obtained yet.

Sampling Activity & Analysis:

- Onsite air sampling took place on September 29th, 2018 : 2 Indoor and 1 Outdoor Ambient Air sample collected over a period of 8 hours using Summa Cannisters with flow regulators provided by the Lab. The samples shall be analyzed for Total VOCs via EPA Method TO-15. COC Attached.
- SVE and SSDS Vacuum Testing performed on September 18th, 2018 and September 19th, 2018 :
  - Pressure gauges relative to the SSD and SVE Systems monitored. All gauges read between 0" & 2" of water, as anticipated (pictures attached).
  - Vacuum tests performed on SSD and SVE Systems using a digital manometer. Findings recorded in Table 1 below.
  - Vapor concentrations were monitored on the SVE effluent. All PID readings in the range of 0.1 – 0.3 ppm (PID log attached).

APPENDIX 5

DIGITAL PHOTO LOG



1- Removal of asphalt pavement prior to soil excavation



2- Asphalt disposal in drop-off containers



3- Soil excavation for drywell installation in open parking area



4- View of Soil excavation in parking alley



5- Soil loading



6- Soil stockpiling

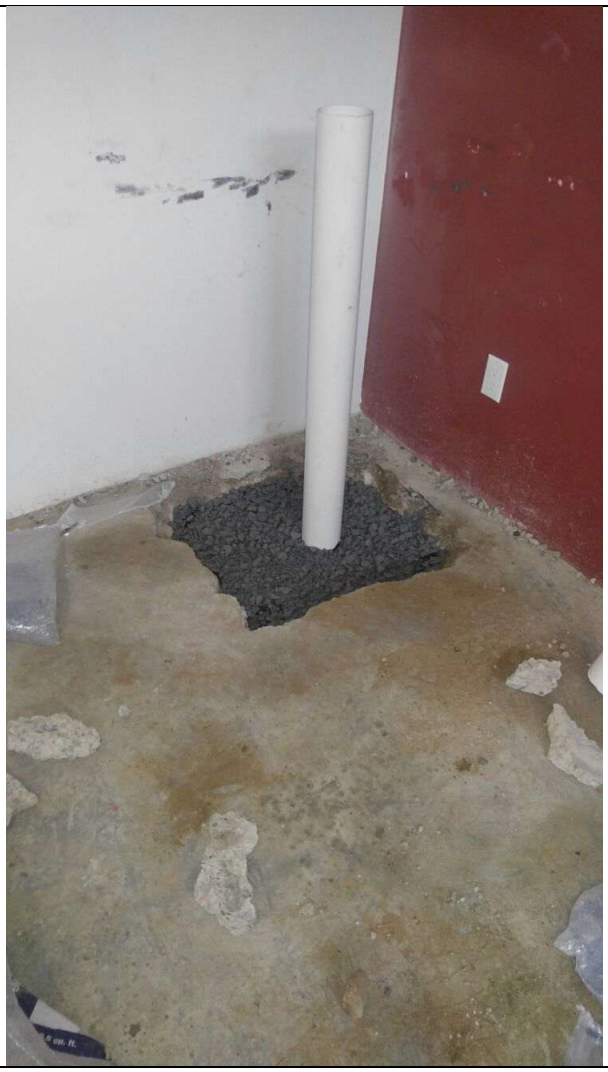


7- CAMP activities during soil excavation



8- View of manhole covers of drywell and water retention system





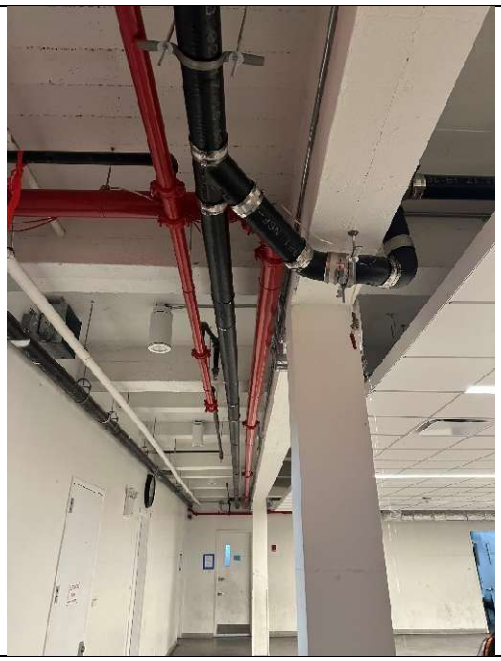
9- SSDS pits installation



10- Sealing of SSDS pits



11- Installation of SSDS vacuum monitoring probes sub-slab



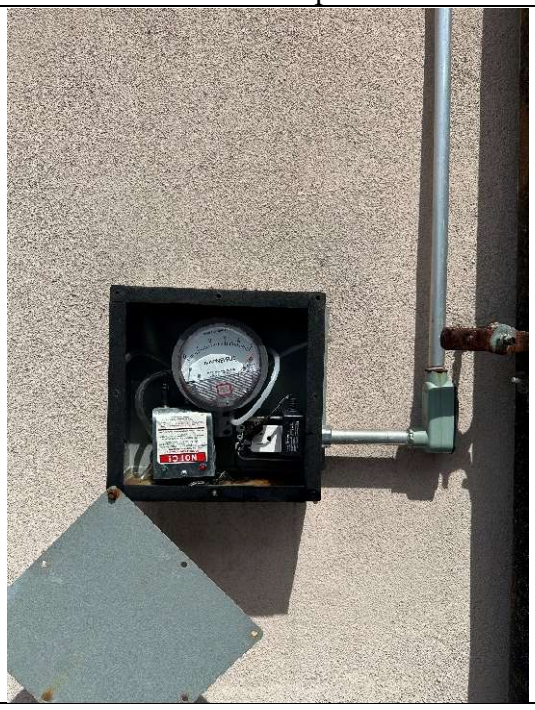
12- View of 4-inch diameter cast iron riser pipers of from SSDS pits



13- View of magnehelic gauges and radon alarm installed on the risers from SSDS pits #1, #2 and #3



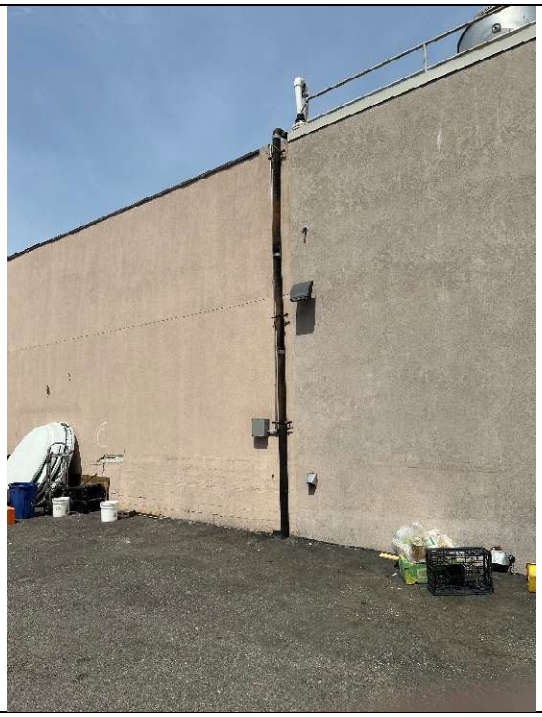
14- View of magnehelic gauge and radon alarm installed on the riser from SSDS pits #4



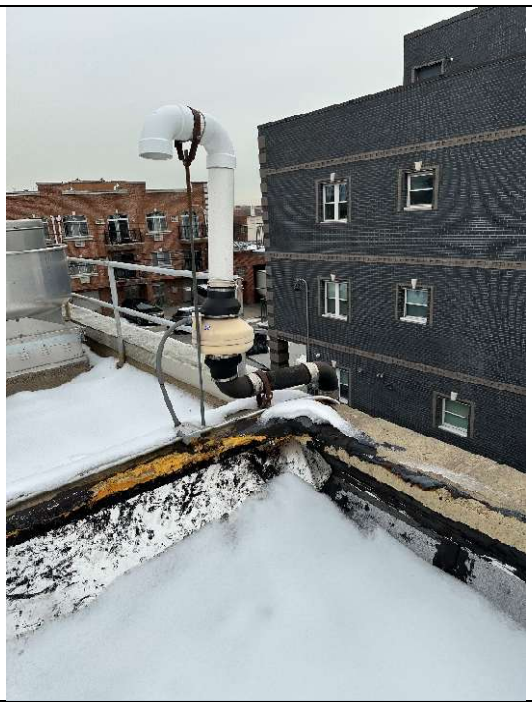
15- View of magnehelic gauge and radon alarm installed on the riser from SVE system



16- View of RadonAway suction fan Model RP145 of SSDS above rooftop

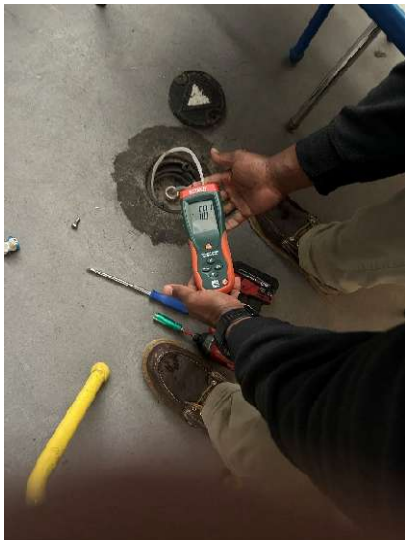


17- View of 4-inch cast iron riser pipe of SVE system



18- View of RadonAway fan Model RP260 of SVE system above rooftop







19- Negative pressure monitoring at sub-slab vacuum probes



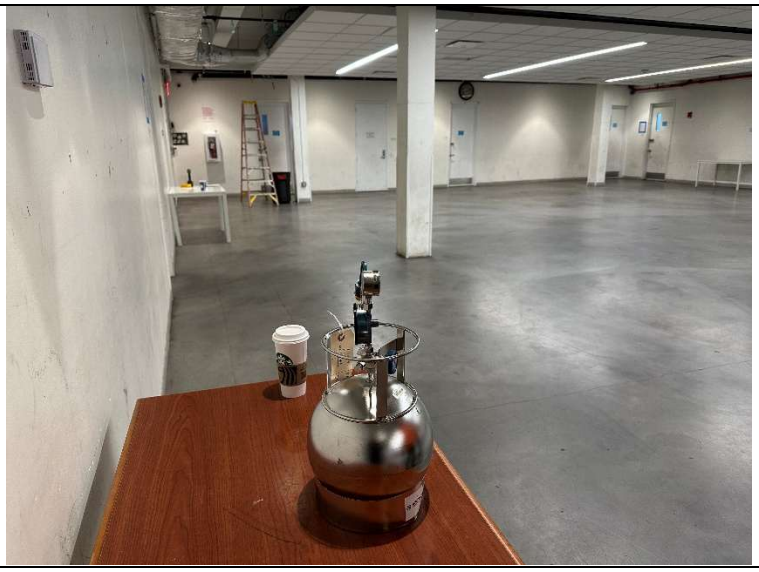




20- Organic vapor monitoring at SSDS and SVE system effluents



21- Indoor air sampling in the main hall on first floor



22- Indoor air sampling in the cellar



23- Organic vapor survey with PID

APPENDIX 6

EXCAVATED SOIL WASTE CHARACTERIZATION AND DISPOSAL DOCUMENTATION

P Park NJ
100 Planten Ave.
Prospect Park, NJ 07508

August 4, 2017

Kristin Foldes
Clean Earth, Inc.
334 South Warminster Road
Hatboro, PA 19040

Re: Tibetan Community of NY & NJ
32-01 57th Street
Queen, NY 11377

Dear Ms. Foldes,

P Park NJ, LLC (P Park) has prepared this Approval Letter for Clean Earth, Inc. with regards to material from the above-referenced site. P Park has reviewed the laboratory data you provided and compared it with our current protocols for acceptance. The analytical results were reviewed for the purposes of determining if the material on the subject site is acceptable for placement at P Park located in Prospect Park, NJ.

The analytical results provided support that material from specific portions of the site meet P Park's Clean Fill Protocol. All the analytical results provided, were reviewed and compared to the NJDEP Remediation Standards for Residential Direct Contact Soil Remediation Standards and several areas were found to be below the standards. This approval is based solely upon the information provided on this application and the following documents submitted with this application:

- **Laboratory Report:**
  - Report: Phoenix Environmental Labs – Project ID: 32-01 57th St. – Sample IDs: BY50161 -BY50163 (7/6/17); Sample IDs: BY72901
- **Sample ID's:**
  - BY50161 thru BY50163: WC-1(0-2)Composite, WC-1A(0-2)Grab, WC-1E(0-2)Site Grab (6/29/17); BY72901: WC-1(0-2) Composite (7/26/17)
    - Approved Grids: WC-1 (0-2' bgs)
- **Sampling Plan/Drawings:**
  - HydroTech Environmental – 32-01 57th Street, Queens, NY, HTE Job# 170198, Figure: Waste Characterization Sampling Plan, showing the locations of grid WC-1 and sample locations A through E (7/17/17)
- **Additional Documents:**
  - HAKS – Interim Remedial Measure Work Plan, Prepared for the Tibetan Community of New York & New Jersey, 32-01 57th Street, Block 1159; Lot 1, Queens, NY, Site Number: 241197, May 18, 2017

- AKRF – Phase II Environmental Site Investigation Summary for32-01 57th Street, LLW No. 072144; SCA Job No. Q30B-39464, October 31, 2011
- Airtek Environmental – Limited Phase II Subsurface Investigation Report for 32-01 57th Street, Block 1159; Lot 1, Queens, NY 11377, May 30, 2012

The applicant warrants that the material proposed for shipment to P Park is in fact, the same material which was tested and is represented by the sample results provided with this application. Furthermore, it is our understanding that material encountered within the scope of the Tibetan Community of NY & NJ project which does not meet P Park NJ, LLC's protocol will be sent to a separate disposal facility permitted to take the material. Clean Earth, Inc. further warrants that a proper QA/QC plan will be in place during the excavation and loading of the material to ensure that only approved soils are sent to the P Park facility.

The material approved for import into P Park is identified in the provided data as:

- **WC-1 (0-2' bgs)**

The above-referenced sample and/or grid locations MUST be noted on all manifests.

The total material approval is for 900 tons.

P Park NJ LLC's compliance engineers, WCD Consultants reviewed all analytical data and site background information and determined the material profiled meets our current acceptance criteria for approval and placement into the facility. Based upon our review, the results and application have been accepted and given the WCD approval # PPNJ-080417-0521 and P Park has issued the project # 17-073.

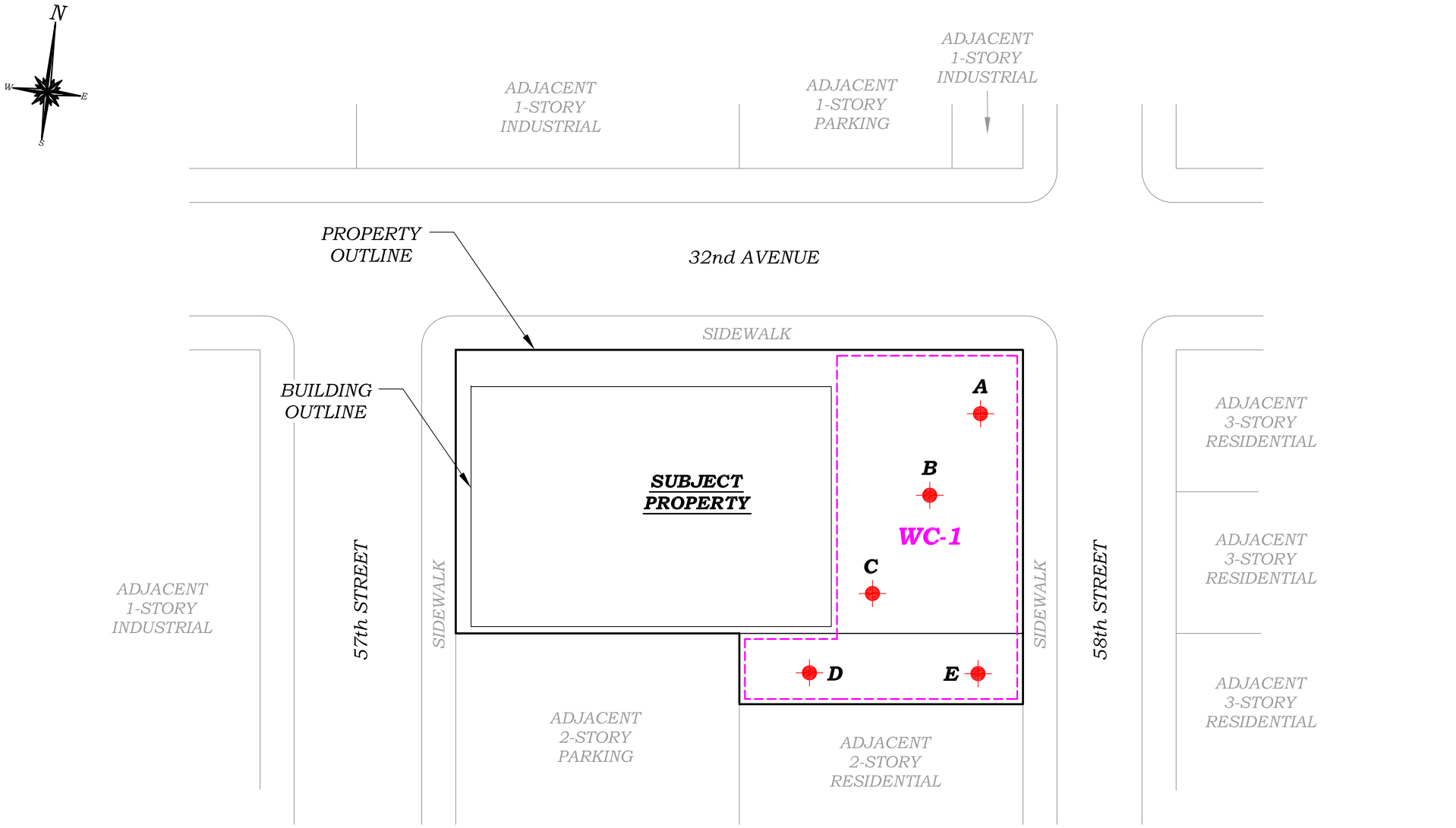
All deliveries **must** be scheduled in advance with Lori Ripp via email at lripp@pparknj.com .

Please contact me if you have any questions.

Sincerely,

Joseph E. Posillico

Joseph E. Posillico
Facility Manager
P Park NJ, LLC



LEGEND:

WASTE CHARACTERIZATION SAMPLING LOCATIONS

0' 20' 40' 60'

SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

www.hydrotechenvironmental.com

32-01 57th Street
Queens, NY.
HTE Job # 170198

Drawn By: C.Q.
Reviewed By: S.P.
Approved By: M.R
Date: 07/17/17
Scale: AS NOTED

TITLE:

FIGURE: WASTE CHARACTERIZATION SAMPLING PLAN

PHOENIX
Environmental Laboratories, Inc.

Thursday, July 06, 2017

Attn:
HydroTech Environmental Corp.
77 Arkay Drive
Hauppauge, NY 11788

Project ID: 32-01 57TH ST
Sample ID#s: BY50161 - BY50163

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

July 06, 2017

SDG I.D.: GBY50161

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

BY50161 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

PA Clean Fill comment:
Some compounds were evaluated below the lowest calibration standard in order to meet the requested criteria. The requested criteria could not be achieved for some compounds because the limit of detection (LOD) was greater than the criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 06, 2017

FOR: Attn:
HydroTech Environmental Corp.
77 Arkay Drive
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/17	9:00
Location Code:	HYDROTEK	Received by:	SW	06/29/17	15:36
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	1232				

Laboratory Data

SDG ID: GBY50161
Phoenix ID: BY50161

Project ID: 32-01 57TH ST
Client ID: WC-1(0-2)COMPOSITE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Arsenic	3.16	0.65	mg/Kg	1	07/01/17	LK	SW6010C	
Barium	54.8	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Cadmium	0.45	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Chromium	47.4	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Copper	69.7	0.33	mg/kg	1	07/01/17	LK	SW6010C	
Mercury	< 0.03	0.03	mg/Kg	1	07/03/17	MA	SW7471B	
Nickel	66.0	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Lead	48.7	0.33	mg/Kg	1	07/01/17	LK	SW6010C	
Selenium	< 1.3	1.3	mg/Kg	1	07/01/17	LK	SW6010C	
TCLP Silver	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Arsenic	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Barium	0.50	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Cadmium	< 0.050	0.050	mg/L	1	07/05/17	MA	SW6010C	
TCLP Chromium	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Copper	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	07/03/17	MA	SW7470A	
TCLP Nickel	0.12	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Lead	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Selenium	< 0.10	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Zinc	0.33	0.10	mg/L	1	07/05/17	MA	SW6010C	
TCLP Metals Digestion	Completed				07/05/17	Q/W	SW3005A	
Zinc	65.2	0.33	mg/Kg	1	07/01/17	LK	SW6010C	B
Percent Solid	91		%		06/30/17	D	SW846-%Solid	
Corrosivity	Negative		Pos/Neg	1	06/30/17	O	SW846-Corr	1
Flash Point	>200	200	Degree F	1	07/03/17	Y	SW1010A	
Ignitability	Passed	140	degree F	1	07/03/17	Y	SW846-Ignit	1
pH at 25C - Soil	7.62	1.00	pH Units	1	06/30/17 19:42	O	SW9045	1

Ver 1

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Reactivity Cyanide	< 5	5	mg/Kg	1	07/03/17	K/B/G	SW846-ReactCyn	1
Reactivity Sulfide	< 20	20	mg/Kg	1	07/03/17	K/B/G	SW-7.3	1
Reactivity	Negative		Pos/Neg	1	07/03/17	K/B/G	SW846-React	1
Soil Extraction for PCB	Completed				06/30/17	BC/CK	SW3545A	
Soil Extraction for SVOA	Completed				06/30/17	BC/CK	SW3545A	
Mercury Digestion	Completed				07/03/17	Q/Q	SW7471B	
Ext. of Petroleum Hydrocarbons	Completed				07/03/17	HC/CK	SW3545A	
TCLP Digestion Mercury	Completed				07/03/17	Q/Q	SW7470A	
TCLP Herbicides Extraction	Completed				07/05/17	R/Q	SW8150 MOD	
TCLP Extraction for Metals	Completed				06/30/17	Q	SW1311	
TCLP Extraction for Organics	Completed				06/30/17	Q	SW1311	
TCLP Pesticides Extraction	Completed				07/03/17	N	SW3510C	
TCLP Semi-Volatile Extraction	Completed				07/03/17	N/T	SW3510C	
TCLP Extraction Volatiles	Completed				06/30/17	Y	SW1311	
Total Metals Digest	Completed				06/30/17	L/AG	SW3050B	
Gasoline Range Hydrocarbons (C6-C10)								
GRO (C6-C10)	ND	5.4	mg/Kg	50	07/02/17	CG	SW8015D	1
QA/QC Surrogates								
% 2,5-Dibromotoluene (FID)	86		%	50	07/02/17	CG	70 - 130 %	
Polychlorinated Biphenyls								
PCB-1016	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1221	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1232	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1242	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1248	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1254	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1260	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1262	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
PCB-1268	ND	0.073	mg/Kg	2	07/03/17	AW	SW8082A	
QA/QC Surrogates								
% DCBP	72		%	2	07/03/17	AW	30 - 150 %	
% TCMX	73		%	2	07/03/17	AW	30 - 150 %	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	8.3	ug/L	10	07/06/17	CW	SW8151A	
2,4-D	ND	17	ug/L	10	07/06/17	CW	SW8151A	
QA/QC Surrogates								
% DCAA	71		%	10	07/06/17	CW	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	07/05/17	CW	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	07/05/17	CW	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	07/05/17	CW	SW8081B	
a-BHC	ND	0.50	ug/L	10	07/05/17	CW	SW8081B	
Alachlor	ND	0.50	ug/L	10	07/05/17	CW	SW8081B	1
Aldrin	ND	0.50	ug/L	10	07/05/17	CW	SW8081B	
b-BHC	ND	0.50	ug/L	10	07/05/17	CW	SW8081B	
Chlordane	ND	5.0	ug/L	10	07/05/17	CW	SW8081B	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Dieldrin	ND	1.0	ug/L	10	07/05/17	CW	SW8081B
Endosulfan I	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Endosulfan II	ND	1.0	ug/L	10	07/05/17	CW	SW8081B
Endosulfan Sulfate	ND	1.0	ug/L	10	07/05/17	CW	SW8081B
Endrin	ND	1.0	ug/L	10	07/05/17	CW	SW8081B
Endrin Aldehyde	ND	1.0	ug/L	10	07/05/17	CW	SW8081B
g-BHC (Lindane)	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Heptachlor	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Heptachlor epoxide	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Methoxychlor	ND	0.50	ug/L	10	07/05/17	CW	SW8081B
Toxaphene	ND	20	ug/L	10	07/05/17	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	81		%	10	07/05/17	CW	30 - 150 %
%TCMX (Surrogate Rec)	75		%	10	07/05/17	CW	30 - 150 %
Extractable TPH C9-C44							
TPH to C44	ND	72	mg/Kg	1	07/05/17	JRB	SW8015D TPH
QA/QC Surrogates							
% Chlorobenzene (surrogate)	73		%	1	07/05/17	JRB	50 - 150 %
% Pentacosane (surrogate)	90		%	1	07/05/17	JRB	50 - 150 %
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,1-Dichloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,1-Dichloroethene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2-Dibromoethane	ND	0.0012	mg/Kg	1	07/01/17	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2-Dichloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,2-Dichloropropane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
2-Hexanone	ND	0.027	mg/Kg	1	07/01/17	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.027	mg/Kg	1	07/01/17	JLI	SW8260C
Acetone	ND	0.05	mg/Kg	1	07/01/17	JLI	SW8260C
Benzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Bromochloromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Bromodichloromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Bromoform	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Bromomethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Carbon Disulfide	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Carbon tetrachloride	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Chlorobenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Chloroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Chloroform	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Cyclohexane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Dibromochloromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Ethylbenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Isopropylbenzene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
m&p-Xylene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Methyl ethyl ketone	ND	0.033	mg/Kg	1	07/01/17	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	07/01/17	JLI	SW8260C
Methylacetate	ND	0.0044	mg/Kg	1	07/01/17	JLI	SW8260C
Methylcyclohexane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Methylene chloride	ND	0.027	mg/Kg	1	07/01/17	JLI	SW8260C
o-Xylene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Styrene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Tetrachloroethene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Toluene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Total Xylenes	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Trichloroethene	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Trichlorofluoromethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
Vinyl chloride	ND	0.0054	mg/Kg	1	07/01/17	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	07/01/17	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	07/01/17	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	07/01/17	JLI	70 - 130 %
% Toluene-d8	90		%	1	07/01/17	JLI	70 - 130 %

TCLP Volatiles

1,1-Dichloroethene	ND	25	ug/L	5	07/03/17	HM	SW8260C
1,2-Dichloroethane	ND	25	ug/L	5	07/03/17	HM	SW8260C
Benzene	ND	25	ug/L	5	07/03/17	HM	SW8260C
Carbon tetrachloride	ND	25	ug/L	5	07/03/17	HM	SW8260C
Chlorobenzene	ND	25	ug/L	5	07/03/17	HM	SW8260C
Chloroform	ND	25	ug/L	5	07/03/17	HM	SW8260C
Methyl ethyl ketone	ND	25	ug/L	5	07/03/17	HM	SW8260C
Tetrachloroethene	ND	25	ug/L	5	07/03/17	HM	SW8260C
Trichloroethene	ND	25	ug/L	5	07/03/17	HM	SW8260C
Vinyl chloride	ND	25	ug/L	5	07/03/17	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	5	07/03/17	HM	70 - 130 %
% Bromofluorobenzene	98		%	5	07/03/17	HM	70 - 130 %
% Dibromofluoromethane	99		%	5	07/03/17	HM	70 - 130 %
% Toluene-d8	102		%	5	07/03/17	HM	70 - 130 %
Volatile Library Search Top 10	Completed				07/01/17	JLI	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
1,2-Dichlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
1,2-Diphenylhydrazine	ND	0.15	mg/Kg	1	07/01/17	PS	SW8270D	
1,3-Dichlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
1,4-Dichlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2,4,5-Trichlorophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2,4,6-Trichlorophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2,4-Dichlorophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2,4-Dimethylphenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2,4-Dinitrophenol	ND	0.21	mg/Kg	1	07/01/17	PS	SW8270D	
2,4-Dinitrotoluene	ND	0.14	mg/Kg	1	07/01/17	PS	SW8270D	
2,6-Dinitrotoluene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Chloronaphthalene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Chlorophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Methylnaphthalene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Methylphenol (o-cresol)	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Nitroaniline	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
2-Nitrophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D	
3,3'-Dichlorobenzidine	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
3-Nitroaniline	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
4,6-Dinitro-2-methylphenol	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D	
4-Bromophenyl phenyl ether	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D	
4-Chloro-3-methylphenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
4-Chloroaniline	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
4-Chlorophenyl phenyl ether	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
4-Nitroaniline	ND	0.12	mg/Kg	1	07/01/17	PS	SW8270D	
4-Nitrophenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Acenaphthene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Acenaphthylene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Acetophenone	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Aniline	ND	0.16	mg/Kg	1	07/01/17	PS	SW8270D	
Anthracene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Benz(a)anthracene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Benzidine	ND	0.18	mg/Kg	1	07/01/17	PS	SW8270D	
Benzo(a)pyrene	ND	0.2	mg/Kg	1	07/01/17	PS	SW8270D	
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Benzoic acid	ND	0.72	mg/Kg	1	07/01/17	PS	SW8270D	1
Benzyl butyl phthalate	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Bis(2-chloroethyl)ether	ND	0.097	mg/Kg	1	07/01/17	PS	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	
Carbazole	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D	
Chrysene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D	

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.2	mg/Kg	1	07/01/17	PS	SW8270D
Dibenzofuran	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Diethyl phthalate	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Dimethylphthalate	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Di-n-butylphthalate	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Di-n-octylphthalate	0.56	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Fluorene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Hexachlorobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Hexachlorobutadiene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Hexachlorocyclopentadiene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Hexachloroethane	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Isophorone	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Nitrobenzene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
N-Nitrosodimethylamine	ND	0.1	mg/Kg	1	07/01/17	PS	SW8270D
N-Nitrosodi-n-propylamine	ND	0.12	mg/Kg	1	07/01/17	PS	SW8270D
N-Nitrosodiphenylamine	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D
Pentachloronitrobenzene	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D
Pentachlorophenol	ND	0.36	mg/Kg	1	07/01/17	PS	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Phenol	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Pyrene	ND	0.25	mg/Kg	1	07/01/17	PS	SW8270D
Pyridine	ND	0.11	mg/Kg	1	07/01/17	PS	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	67		%	1	07/01/17	PS	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	07/01/17	PS	30 - 130 %
% 2-Fluorophenol	56		%	1	07/01/17	PS	30 - 130 %
% Nitrobenzene-d5	59		%	1	07/01/17	PS	30 - 130 %
% Phenol-d5	60		%	1	07/01/17	PS	30 - 130 %
% Terphenyl-d14	65		%	1	07/01/17	PS	30 - 130 %
TCLP Acid/Base-Neutral							
1,4-Dichlorobenzene	ND	83	ug/L	1	07/05/17	DD	SW8270D
2,4,5-Trichlorophenol	ND	83	ug/L	1	07/05/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	83	ug/L	1	07/05/17	DD	SW8270D
2,4-Dinitrotoluene	ND	83	ug/L	1	07/05/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	83	ug/L	1	07/05/17	DD	SW8270D
3&4-Methylphenol (m&p-Cresol)	ND	83	ug/L	1	07/05/17	DD	SW8270D
Hexachlorobenzene	ND	83	ug/L	1	07/05/17	DD	SW8270D
Hexachlorobutadiene	ND	83	ug/L	1	07/05/17	DD	SW8270D
Hexachloroethane	ND	83	ug/L	1	07/05/17	DD	SW8270D
Nitrobenzene	ND	83	ug/L	1	07/05/17	DD	SW8270D
Pentachlorophenol	ND	83	ug/L	1	07/05/17	DD	SW8270D
Pyridine	ND	83	ug/L	1	07/05/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	07/05/17	DD	15 - 110 %
% 2-Fluorobiphenyl	88		%	1	07/05/17	DD	30 - 130 %
% 2-Fluorophenol	71		%	1	07/05/17	DD	15 - 110 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	86		%	1	07/05/17	DD	30 - 130 %
% Phenol-d5	70		%	1	07/05/17	DD	15 - 110 %
% Terphenyl-d14	87		%	1	07/05/17	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

The GRO (C6-C10) is quantitated using an gasoline standard.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

BY50161 - The pH in the preserved volatile vial was greater than 2. A negative bias may have occurred.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 06, 2017

FOR: Attn:
HydroTech Environmental Corp.
77 Arkay Drive
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/17	9:00
Location Code:	HYDROTEK	Received by:	SW	06/29/17	15:36
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	1232				

Laboratory Data

SDG ID: GBY50161
Phoenix ID: BY50162

Project ID: 32-01 57TH ST
Client ID: WC-1A(0-2)GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2-Dibromoethane	ND	0.0012	mg/Kg	1	06/30/17	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	06/30/17	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	06/30/17	JLI	SW8260C
Acetone	0.049	S 0.045	mg/Kg	1	06/30/17	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C

Project ID: 32-01 57TH ST
Client ID: WC-1A(0-2)GRAB

Phoenix I.D.: BY50162

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Cyclohexane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Dibromochloromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Isopropylbenzene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Methyl ethyl ketone	ND	0.027	mg/Kg	1	06/30/17	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0089	mg/Kg	1	06/30/17	JLI	SW8260C
Methylacetate	ND	0.0036	mg/Kg	1	06/30/17	JLI	SW8260C
Methylcyclohexane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Methylene chloride	ND	0.022	mg/Kg	1	06/30/17	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	06/30/17	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	06/30/17	JLI	70 - 130 %
% Bromofluorobenzene	101		%	1	06/30/17	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	06/30/17	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/17	JLI	70 - 130 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.018	mg/Kg	1	06/30/17	JLI	SW8260C
Acrolein	ND	0.0022	mg/Kg	1	06/30/17	JLI	SW8260C
Acrylonitrile	ND	0.0087	mg/Kg	1	06/30/17	JLI	SW8260C
Tert-butyl alcohol	ND	0.089	mg/Kg	1	06/30/17	JLI	SW8260C
Volatile Library Search Top 10	Completed				06/30/17	JLI	

Project ID: 32-01 57TH ST
Client ID: WC-1A(0-2)GRAB

Phoenix I.D.: BY50162

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

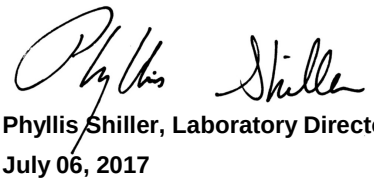
Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 06, 2017

FOR: Attn:
HydroTech Environmental Corp.
77 Arkay Drive
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/17	9:00
Location Code:	HYDROTEK	Received by:	SW	06/29/17	15:36
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	1232				

Laboratory Data

SDG ID: GBY50161
Phoenix ID: BY50163

Project ID: 32-01 57TH ST
Client ID: WC-1E(0-2)SITE GRAB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Silver	< 0.10	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Arsenic	< 0.10	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Barium	0.31	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Cadmium	< 0.050	0.050	mg/L	1	07/01/17	LK	SW6010C
TCLP Chromium	< 0.10	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Mercury	< 0.0002	0.0002	mg/L	1	06/30/17	RS	SW7470A
TCLP Lead	< 0.10	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Selenium	< 0.10	0.10	mg/L	1	07/01/17	LK	SW6010C
TCLP Metals Digestion	Completed				06/30/17	W/W	SW3005A
Percent Solid	92		%		06/29/17	Q	SW846-%Solid
Paint Filter Test	Passed		PASS/FAIL		06/29/17	B	SW9095B
TCLP Digestion Mercury	Completed				06/30/17	W/W	SW7470A
TCLP Extraction for Metals	Completed				06/29/17	W	SW1311

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: WC-1(0-2)COMPOSITE

Lab Name: Phoenix Environmental Labs Client: HYDROTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY50161

Matrix:(soil/water) SOIL Lab Sample ID: BY50161

Sample wt/vol: 5.07 (g/mL) g Lab File ID: 0630M21.D

Level: (low/med) PPL Date Received: 06/29/17

% Moisture: not dec. 9 Date Analyzed: 07/01/17

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID: WC-1A(0-2)GRAB

Lab Name: Phoenix Environmental Labs Client: HYDROTEK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBY50161

Matrix:(soil/water) SOIL Lab Sample ID: BY50162

Sample wt/vol: 5.59 (g/mL) g Lab File ID: 0629L26.D

Level: (low/med) Low Date Received: 06/28/17

% Moisture: not dec. 0 Date Analyzed: 06/30/17

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

July 06, 2017

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 392095 (mg/L), QC Sample No: BY50074 (BY50163)													
ICP Metals - TCLP Extraction													
Arsenic	BRL	0.01	<0.01	<0.01	NC	108			105			75 - 125	20
Barium	BRL	0.01	0.60	0.61	1.70	94.8			97.0			75 - 125	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	101			95.0			75 - 125	20
Chromium	BRL	0.010	<0.010	<0.010	NC	100			98.7			75 - 125	20
Lead	BRL	0.010	0.046	0.048	NC	104			101			75 - 125	20
Selenium	BRL	0.01	<0.01	<0.01	NC	117			115			75 - 125	20
Silver	BRL	0.010	<0.010	<0.010	NC	103			104			75 - 125	20
QA/QC Batch 392088 (mg/L), QC Sample No: BY50074 (BY50163)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	94.0			93.3			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 392320 (mg/kg), QC Sample No: BY50161 (BY50161)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	76.2	73.6	3.5	88.8			70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 392321 (mg/L), QC Sample No: BY50161 (BY50161)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	91.0			87.9			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 392331 (mg/L), QC Sample No: BY50831 (BY50161)													
ICP Metals - TCLP Extraction													
Arsenic	BRL	0.01	<0.10	<0.10	NC	104			101			75 - 125	20
Barium	BRL	0.01	0.59	0.61	3.30	101			101			75 - 125	20
Cadmium	BRL	0.005	<0.050	<0.050	NC	99.1			102			75 - 125	20
Chromium	BRL	0.010	<0.10	<0.10	NC	98.9			101			75 - 125	20
Copper	BRL	0.010	<0.10	<0.10	NC	108			105			75 - 125	20
Lead	BRL	0.010	<0.10	<0.10	NC	104			104			75 - 125	20
Nickel	BRL	0.010	<0.10	<0.10	NC	101			102			75 - 125	20
Selenium	BRL	0.01	<0.10	<0.10	NC	112			110			75 - 125	20
Silver	BRL	0.010	<0.10	<0.10	NC	104			102			75 - 125	20
Zinc	BRL	0.010	<0.10	0.10	NC	98.5			102			75 - 125	20
QA/QC Batch 392212 (mg/kg), QC Sample No: BY51359 (BY50161)													
ICP Metals - Soil													
Arsenic	BRL	0.63	4.93	4.69	5.00	98.5			93.3			75 - 125	30
Barium	BRL	0.31	83.4	81.5	2.30	101			95.4			75 - 125	30
Cadmium	BRL	0.31	0.46	0.46	NC	100			94.4			75 - 125	30
Chromium	BRL	0.31	15.1	15.5	2.60	106			100			75 - 125	30
Copper	BRL	0.31	30.9	31.2	1.00	103			104			75 - 125	30
Lead	BRL	0.31	153	139	9.60	101			95.9			75 - 125	30

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nickel	BRL	0.31	15.9	14.9	6.50	101			96.5			75 - 125	30
Selenium	BRL	1.3	<1.4	<1.5	NC	87.0			81.2			75 - 125	30
Silver	BRL	0.31	<0.34	0.87	NC	100			99.2			75 - 125	30
Zinc	0.34	0.31	95.4	93.7	1.80	97.5			94.3			75 - 125	30

Environmental Laboratories, Inc.
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NY # 11301

QA/QC Report

July 06, 2017

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 392356 (mg/Kg), QC Sample No: BY49611 4.95X (BY50161)													
Reactivity Cyanide	BRL	0.05	<6	<5.8	NC	99.3						85 - 115	30
QA/QC Batch 392336 (Degree F), QC Sample No: BY50161 (BY50161)													
Flash Point			>200	>200	NC	100						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 392230 (PH), QC Sample No: BY50161 (BY50161)													
pH at 25C - Soil			7.62	7.62	0	100						85 - 115	20

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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NY # 11301

QA/QC Report

July 06, 2017

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 392386 (ug/L), QC Sample No: BY48916 (BY50161 (5X))											
Volatiles - TCLP											
1,1-Dichloroethene	ND	5.0	110	106	3.7				70 - 130	30	
1,2-Dichloroethane	ND	0.60	98	96	2.1				70 - 130	30	
Benzene	ND	0.70	96	94	2.1				70 - 130	30	
Carbon tetrachloride	ND	5.0	101	98	3.0				70 - 130	30	
Chlorobenzene	ND	1.0	95	93	2.1				70 - 130	30	
Chloroform	ND	5.0	99	97	2.0				70 - 130	30	
Methyl ethyl ketone	ND	5.0	108	108	0.0				70 - 130	30	
Tetrachloroethene	ND	1.0	99	98	1.0				70 - 130	30	
Trichloroethene	ND	5.0	97	97	0.0				70 - 130	30	
Vinyl chloride	ND	5.0	149	149	0.0				70 - 130	30	l
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0				70 - 130	30	
% Bromofluorobenzene	99	%	101	101	0.0				70 - 130	30	
% Dibromofluoromethane	98	%	100	97	3.0				70 - 130	30	
% Toluene-d8	101	%	101	102	1.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 392126 (mg/Kg), QC Sample No: BY50074 (BY50162)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	0.005	114	112	1.8	96	93	3.2	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	110	111	0.9	94	91	3.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	112	110	1.8	98	95	3.1	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	108	107	0.9	94	89	5.5	70 - 130	30	
1,1-Dichloroethane	ND	0.005	108	109	0.9	94	90	4.3	70 - 130	30	
1,1-Dichloroethene	ND	0.005	109	111	1.8	77	72	6.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	119	117	1.7	99	104	4.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	120	119	0.8	102	105	2.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	119	118	0.8	97	91	6.4	70 - 130	30	
1,2-Dibromoethane	ND	0.005	110	108	1.8	95	91	4.3	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	110	108	1.8	95	95	0.0	70 - 130	30	
1,2-Dichloroethane	ND	0.005	106	105	0.9	92	88	4.4	70 - 130	30	
1,2-Dichloropropane	ND	0.005	107	108	0.9	93	91	2.2	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	112	112	0.0	98	97	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	110	110	0.0	96	96	0.0	70 - 130	30	
2-Hexanone	ND	0.025	99	97	2.0	43	40	7.2	70 - 130	30	m
4-Methyl-2-pentanone	ND	0.025	103	101	2.0	45	41	9.3	70 - 130	30	m
Acetone	ND	0.01	80	83	3.7	28	25	11.3	70 - 130	30	m
Acrolein	ND	0.025	89	94	5.5	68	55	21.1	70 - 130	30	m
Acrylonitrile	ND	0.005	103	101	2.0	120	112	6.9	70 - 130	30	
Benzene	ND	0.001	109	110	0.9	96	94	2.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	0.005	107	108	0.9	93	91	2.2	70 - 130	30	
Bromodichloromethane	ND	0.005	112	110	1.8	93	91	2.2	70 - 130	30	
Bromoform	ND	0.005	125	124	0.8	97	93	4.2	70 - 130	30	
Bromomethane	ND	0.005	98	100	2.0	75	83	10.1	70 - 130	30	
Carbon Disulfide	ND	0.005	120	122	1.7	103	97	6.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	115	116	0.9	92	91	1.1	70 - 130	30	
Chlorobenzene	ND	0.005	110	110	0.0	96	94	2.1	70 - 130	30	
Chloroethane	ND	0.005	97	97	0.0	51	50	2.0	70 - 130	30	m
Chloroform	ND	0.005	107	107	0.0	95	92	3.2	70 - 130	30	
Chloromethane	ND	0.005	90	93	3.3	114	109	4.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	110	106	3.7	93	93	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	111	111	0.0	95	93	2.1	70 - 130	30	
Cyclohexane	ND	0.005	114	116	1.7	115	113	1.8	70 - 130	30	
Dibromochloromethane	ND	0.003	119	119	0.0	97	94	3.1	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	103	104	1.0	131	129	1.5	70 - 130	30	m
Ethylbenzene	ND	0.001	112	113	0.9	97	94	3.1	70 - 130	30	
Isopropylbenzene	ND	0.001	114	115	0.9	99	99	0.0	70 - 130	30	
m&p-Xylene	ND	0.002	112	114	1.8	97	96	1.0	70 - 130	30	
Methyl ethyl ketone	ND	0.005	95	92	3.2	43	39	9.8	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	0.001	116	116	0.0	111	105	5.6	70 - 130	30	
Methylacetate	ND	0.005	99	98	1.0	107	100	6.8	70 - 130	30	
Methylcyclohexane	ND	0.005	114	116	1.7	126	124	1.6	70 - 130	30	
Methylene chloride	ND	0.005	100	102	2.0	83	79	4.9	70 - 130	30	
o-Xylene	ND	0.002	113	114	0.9	98	96	2.1	70 - 130	30	
Styrene	ND	0.005	111	111	0.0	96	94	2.1	70 - 130	30	
tert-butyl alcohol	ND	0.1	92	88	4.4	120	117	2.5	70 - 130	30	
Tetrachloroethene	ND	0.005	115	117	1.7	98	97	1.0	70 - 130	30	
Toluene	ND	0.001	110	110	0.0	96	94	2.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	110	112	1.8	92	88	4.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	108	105	2.8	90	88	2.2	70 - 130	30	
Trichloroethene	ND	0.005	112	113	0.9	98	95	3.1	70 - 130	30	
Trichlorofluoromethane	ND	0.005	95	96	1.0	32	33	3.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	0.005	110	111	0.9	98	90	8.5	70 - 130	30	
Vinyl chloride	ND	0.005	99	101	2.0	121	119	1.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	%	104	103	1.0	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	100	%	102	103	1.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	100	%	104	102	1.9	100	100	0.0	70 - 130	30	
% Toluene-d8	101	%	104	103	1.0	102	103	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 392317 (mg/Kg), QC Sample No: BY50161 (BY50161 (50X))

Gasoline Range Hydrocarbons (C6C10) - Soil

GRO (C6-C10)	ND	0.10	93	95	2.1	89	90	1.1	70 - 130	50	
% 2,5-Dibromotoluene (FID)	84	%	88	86	2.3	90	88	2.2	70 - 130	50	

QA/QC Batch 392432 (), QC Sample No: BY50161 (BY50161)

Chlorinated Herbicides

2,4,5-TP (Silvex)			97	92	5.3				40 - 140	30	
2,4-D			69	88	24.2				40 - 140	30	
% DCAA (Surrogate Rec)			111	73	41.3				30 - 150	30	r

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 392405 (ug/L), QC Sample No: BY50161 10X (BY50161)											
Pesticides											
4,4' -DDD	ND	0.25	86	69	21.9				40 - 140	20	r
4,4' -DDE	ND	0.25	83	68	19.9				40 - 140	20	
4,4' -DDT	ND	0.25	87	75	14.8				40 - 140	20	
a-BHC	ND	0.15	80	65	20.7				40 - 140	20	r
Alachlor	ND	0.50	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.15	85	70	19.4				40 - 140	20	
b-BHC	ND	0.15	81	68	17.4				40 - 140	20	
Chlordane	ND	5.0	78	64	19.7				40 - 140	20	
d-BHC	ND	0.50	82	73	11.6				40 - 140	20	
Dieldrin	ND	0.15	79	64	21.0				40 - 140	20	r
Endosulfan I	ND	0.50	86	71	19.1				40 - 140	20	
Endosulfan II	ND	0.50	87	71	20.3				40 - 140	20	
Endosulfan sulfate	ND	0.50	87	72	18.9				40 - 140	20	
Endrin	ND	0.50	85	70	19.4				40 - 140	20	
Endrin aldehyde	ND	0.50	96	85	12.2				40 - 140	20	
g-BHC	ND	0.15	79	66	17.9				40 - 140	20	
Heptachlor	ND	0.50	86	71	19.1				40 - 140	20	
Heptachlor epoxide	ND	0.50	85	70	19.4				40 - 140	20	
Hexachlorobenzene	ND	0.50	63	54	15.4				40 - 140	20	
Methoxychlor	ND	0.50	87	57	41.7				40 - 140	20	r
Toxaphene	ND	20	NA	NA	NC				40 - 140	20	
% DCBP	91	%	84	75	11.3				30 - 150	20	
% TCMX	78	%	82	71	14.4				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 392385 (mg/Kg), QC Sample No: BY50161 (BY50161)

TPH by GC - Soil

Total Petroleum Hydrocarbon	ND	67	86	86	0.0	90	86	4.5	50 - 150	30	
% Chlorobenzene (surrogate)	56	%	68	64	6.1	66	70	5.9	50 - 150	30	
% Pentacosane (surrogate)	62	%	76	77	1.3	86	81	6.0	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 392291 (mg/Kg), QC Sample No: BY50161 (BY50161)

Volatiles - Soil

1,1,1-Trichloroethane	ND	0.005	105	102	2.9				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	104	106	1.9				70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	103	102	1.0				70 - 130	30	
1,1-Dichloroethane	ND	0.005	106	103	2.9				70 - 130	30	
1,1-Dichloroethene	ND	0.005	109	107	1.9				70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	98	99	1.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	92	94	2.2				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	107	112	4.6				70 - 130	30	
1,2-Dibromoethane	ND	0.005	100	100	0.0				70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	101	99	2.0				70 - 130	30	
1,2-Dichloroethane	ND	0.005	102	98	4.0				70 - 130	30	
1,2-Dichloropropane	ND	0.005	104	100	3.9				70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	97	95	2.1				70 - 130	30	

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	0.005	98	97	1.0				70 - 130	30	
2-Hexanone	ND	0.025	82	86	4.8				70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	89	92	3.3				70 - 130	30	
Acetone	ND	0.01	78	82	5.0				70 - 130	30	
Benzene	ND	0.001	102	98	4.0				70 - 130	30	
Bromochloromethane	ND	0.005	104	104	0.0				70 - 130	30	
Bromodichloromethane	ND	0.005	105	101	3.9				70 - 130	30	
Bromoform	ND	0.005	96	96	0.0				70 - 130	30	
Bromomethane	ND	0.005	125	120	4.1				70 - 130	30	
Carbon Disulfide	ND	0.005	114	113	0.9				70 - 130	30	
Carbon tetrachloride	ND	0.005	109	107	1.9				70 - 130	30	
Chlorobenzene	ND	0.005	101	98	3.0				70 - 130	30	
Chloroethane	ND	0.005	125	121	3.3				70 - 130	30	
Chloroform	ND	0.005	98	97	1.0				70 - 130	30	
Chloromethane	ND	0.005	110	107	2.8				70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	106	102	3.8				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	106	102	3.8				70 - 130	30	
Cyclohexane	ND	0.005	87	85	2.3				70 - 130	30	
Dibromochloromethane	ND	0.003	105	103	1.9				70 - 130	30	
Dichlorodifluoromethane	ND	0.005	119	118	0.8				70 - 130	30	
Ethylbenzene	ND	0.001	100	99	1.0				70 - 130	30	
Isopropylbenzene	ND	0.001	101	99	2.0				70 - 130	30	
m&p-Xylene	ND	0.002	97	94	3.1				70 - 130	30	
Methyl ethyl ketone	ND	0.005	82	87	5.9				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	115	116	0.9				70 - 130	30	
Methylacetate	ND	0.005	95	96	1.0				70 - 130	30	
Methylcyclohexane	ND	0.005	94	92	2.2				70 - 130	30	
Methylene chloride	ND	0.005	102	100	2.0				70 - 130	30	
o-Xylene	ND	0.002	100	98	2.0				70 - 130	30	
Styrene	ND	0.005	96	94	2.1				70 - 130	30	
Tetrachloroethene	ND	0.005	107	103	3.8				70 - 130	30	
Toluene	ND	0.001	106	102	3.8				70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	106	104	1.9				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	101	98	3.0				70 - 130	30	
Trichloroethene	ND	0.005	106	102	3.8				70 - 130	30	
Trichlorofluoromethane	ND	0.005	114	110	3.6				70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	107	105	1.9				70 - 130	30	
Vinyl chloride	ND	0.005	118	114	3.4				70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	102	103	1.0				70 - 130	30	
% Bromofluorobenzene	99	%	98	98	0.0				70 - 130	30	
% Dibromofluoromethane	104	%	98	99	1.0				70 - 130	30	
% Toluene-d8	89	%	103	102	1.0				70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 392406 (ug/L), QC Sample No: BY50161 (BY50161)

Semivolatiles

1,4-Dichlorobenzene	ND	17	60	74	20.9				30 - 130	20	r
2,4,5-Trichlorophenol	ND	17	80	96	18.2				30 - 130	20	
2,4,6-Trichlorophenol	ND	17	75	90	18.2				30 - 130	20	
2,4-Dinitrotoluene	ND	58	78	97	21.7				30 - 130	20	r
2-Methylphenol (o-cresol)	ND	17	73	84	14.0				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	17	83	91	9.2				30 - 130	20	

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobenzene	ND	58	81	97	18.0				30 - 130	20	
Hexachlorobutadiene	ND	58	66	82	21.6				30 - 130	20	r
Hexachloroethane	ND	58	56	70	22.2				30 - 130	20	r
Nitrobenzene	ND	58	68	82	18.7				30 - 130	20	
Pentachlorophenol	ND	58	114	134	16.1				30 - 130	20	l
Pyridine	ND	83	70	82	15.8				30 - 130	20	
% 2,4,6-Tribromophenol	79	%	77	91	16.7				15 - 110	20	
% 2-Fluorobiphenyl	77	%	70	85	19.4				30 - 130	20	
% 2-Fluorophenol	64	%	63	75	17.4				15 - 110	20	
% Nitrobenzene-d5	73	%	67	80	17.7				30 - 130	20	
% Phenol-d5	63	%	64	71	10.4				15 - 110	20	
% Terphenyl-d14	79	%	79	90	13.0				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 392114 (mg/Kg), QC Sample No: BY51017 2X (BY50161)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	0.033	84	89	5.8	93	83	11.4	40 - 140	30	
PCB-1221	ND	0.033							40 - 140	30	
PCB-1232	ND	0.033							40 - 140	30	
PCB-1242	ND	0.033							40 - 140	30	
PCB-1248	ND	0.033							40 - 140	30	
PCB-1254	ND	0.033							40 - 140	30	
PCB-1260	ND	0.033	90	88	2.2	98	85	14.2	40 - 140	30	
PCB-1262	ND	0.033							40 - 140	30	
PCB-1268	ND	0.033							40 - 140	30	
% DCBP (Surrogate Rec)	88	%	95	92	3.2	132	109	19.1	30 - 150	30	
% TCMX (Surrogate Rec)	82	%	87	97	10.9	107	91	16.2	30 - 150	30	

QA/QC Batch 392110 (mg/Kg), QC Sample No: BY51017 (BY50161)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	0.23	63	60	4.9	55	56	1.8	30 - 130	30	
1,2,4-Trichlorobenzene	ND	0.23	65	61	6.3	57	57	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	0.18	58	54	7.1	49	47	4.2	30 - 130	30	
1,2-Diphenylhydrazine	ND	0.23	66	65	1.5	63	59	6.6	30 - 130	30	
1,3-Dichlorobenzene	ND	0.23	55	51	7.5	46	44	4.4	30 - 130	30	
1,4-Dichlorobenzene	ND	0.23	56	54	3.6	49	47	4.2	30 - 130	30	
2,4,5-Trichlorophenol	ND	0.23	70	66	5.9	60	60	0.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	0.13	69	65	6.0	60	61	1.7	30 - 130	30	
2,4-Dichlorophenol	ND	0.13	74	70	5.6	63	64	1.6	30 - 130	30	
2,4-Dimethylphenol	ND	0.23	67	63	6.2	63	62	1.6	30 - 130	30	
2,4-Dinitrophenol	ND	0.23	11	<10	NC	56	51	9.3	30 - 130	30	l
2,4-Dinitrotoluene	ND	0.13	73	70	4.2	64	64	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	0.13	74	73	1.4	66	67	1.5	30 - 130	30	
2-Chloronaphthalene	ND	0.23	71	67	5.8	63	62	1.6	30 - 130	30	
2-Chlorophenol	ND	0.23	69	65	6.0	59	58	1.7	30 - 130	30	
2-Methylnaphthalene	ND	0.23	68	63	7.6	61	60	1.7	30 - 130	30	
2-Methylphenol (o-cresol)	ND	0.23	66	63	4.7	58	60	3.4	30 - 130	30	
2-Nitroaniline	ND	0.33	64	62	3.2	62	60	3.3	30 - 130	30	
2-Nitrophenol	ND	0.23	65	61	6.3	57	53	7.3	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	0.23	73	69	5.6	65	62	4.7	30 - 130	30	

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
3,3'-Dichlorobenzidine	ND	0.13	68	67	1.5	58	63	8.3	30 - 130	30	
3-Nitroaniline	ND	0.33	73	70	4.2	65	66	1.5	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	0.23	23	19	19.0	54	51	5.7	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	0.23	70	64	9.0	58	57	1.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	0.23	75	72	4.1	67	65	3.0	30 - 130	30	
4-Chloroaniline	ND	0.23	65	63	3.1	56	53	5.5	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	0.23	72	67	7.2	62	61	1.6	30 - 130	30	
4-Nitroaniline	ND	0.23	71	68	4.3	64	61	4.8	30 - 130	30	
4-Nitrophenol	ND	0.23	74	71	4.1	65	62	4.7	30 - 130	30	
Acenaphthene	ND	0.23	71	68	4.3	65	66	1.5	30 - 130	30	
Acenaphthylene	ND	0.13	67	64	4.6	56	64	13.3	30 - 130	30	
Acetophenone	ND	0.23	63	60	4.9	54	51	5.7	30 - 130	30	
Aniline	ND	0.33	55	52	5.6	43	39	9.8	30 - 130	30	
Anthracene	ND	0.23	75	69	8.3	61	61	0.0	30 - 130	30	
Benz(a)anthracene	ND	0.23	73	68	7.1	58	81	33.1	30 - 130	30	r
Benzidine	ND	0.33	17	17	0.0	<10	<10	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	0.13	72	69	4.3	58	81	33.1	30 - 130	30	r
Benzo(b)fluoranthene	ND	0.16	73	73	0.0	67	97	36.6	30 - 130	30	r
Benzo(ghi)perylene	ND	0.23	66	63	4.7	53	67	23.3	30 - 130	30	
Benzo(k)fluoranthene	ND	0.23	75	69	8.3	49	66	29.6	30 - 130	30	
Benzoic Acid	ND	0.33	<10	<10	NC	36	34	5.7	30 - 130	30	l
Benzyl butyl phthalate	ND	0.23	83	80	3.7	73	73	0.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	0.23	72	68	5.7	64	62	3.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	0.13	55	54	1.8	49	46	6.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	0.23	56	54	3.6	51	47	8.2	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	0.23	84	80	4.9	76	79	3.9	30 - 130	30	
Carbazole	ND	0.23	74	71	4.1	66	66	0.0	30 - 130	30	
Chrysene	ND	0.23	73	70	4.2	56	79	34.1	30 - 130	30	r
Dibenz(a,h)anthracene	ND	0.13	71	68	4.3	60	67	11.0	30 - 130	30	
Dibenzofuran	ND	0.23	68	64	6.1	62	62	0.0	30 - 130	30	
Diethyl phthalate	ND	0.23	70	68	2.9	62	62	0.0	30 - 130	30	
Dimethylphthalate	ND	0.23	69	67	2.9	61	61	0.0	30 - 130	30	
Di-n-butylphthalate	ND	0.23	78	75	3.9	68	66	3.0	30 - 130	30	
Di-n-octylphthalate	ND	0.23	85	82	3.6	79	79	0.0	30 - 130	30	
Fluoranthene	ND	0.23	72	69	4.3	53	82	43.0	30 - 130	30	r
Fluorene	ND	0.23	73	69	5.6	64	62	3.2	30 - 130	30	
Hexachlorobenzene	ND	0.13	77	72	6.7	66	61	7.9	30 - 130	30	
Hexachlorobutadiene	ND	0.23	60	57	5.1	52	51	1.9	30 - 130	30	
Hexachlorocyclopentadiene	ND	0.23	63	58	8.3	31	25	21.4	30 - 130	30	m
Hexachloroethane	ND	0.13	58	55	5.3	50	47	6.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	72	69	4.3	57	76	28.6	30 - 130	30	
Isophorone	ND	0.13	63	60	4.9	56	53	5.5	30 - 130	30	
Naphthalene	ND	0.23	68	66	3.0	64	62	3.2	30 - 130	30	
Nitrobenzene	ND	0.13	63	61	3.2	56	53	5.5	30 - 130	30	
N-Nitrosodimethylamine	ND	0.23	50	47	6.2	43	39	9.8	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	0.13	65	62	4.7	58	55	5.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	0.13	72	68	5.7	64	64	0.0	30 - 130	30	
Pentachloronitrobenzene	ND	0.23	71	67	5.8	61	56	8.5	30 - 130	30	
Pentachlorophenol	ND	0.23	55	53	3.7	53	56	5.5	30 - 130	30	
Phenanthrene	ND	0.13	70	67	4.4	67	52	25.2	30 - 130	30	
Phenol	ND	0.23	72	69	4.3	63	59	6.6	30 - 130	30	
Pyrene	ND	0.23	74	71	4.1	57	82	36.0	30 - 130	30	r
Pyridine	ND	0.23	34	34	0.0	31	30	3.3	30 - 130	30	

QA/QC Data

SDG I.D.: GBY50161

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 2,4,6-Tribromophenol	66	%		73	69	5.6	65	59	9.7	30 - 130	30
% 2-Fluorobiphenyl	68	%		66	62	6.3	56	56	0.0	30 - 130	30
% 2-Fluorophenol	62	%		63	60	4.9	52	49	5.9	30 - 130	30
% Nitrobenzene-d5	63	%		64	60	6.5	56	52	7.4	30 - 130	30
% Phenol-d5	67	%		69	65	6.0	59	54	8.8	30 - 130	30
% Terphenyl-d14	74	%		74	69	7.0	59	56	5.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 06, 2017

Thursday, July 06, 2017

Criteria: NJ: NRC, RC; NY: 375; PA: CLNF

State: NY

Sample Criteria Exceedances Report

GBY50161 - HYDROTEK

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BY50161	$8270-SMR	N-Nitrosodi-n-propylamine	PA / Clean Fill Limits FP-1a / Organics	ND	120	1.3	1.3	ug/Kg
BY50161	$8270-SMR	N-Nitrosodimethylamine	PA / Clean Fill Limits FP-1a / Organics	ND	100	0.041	0.041	ug/Kg
BY50161	$8270-SMR	Bis(2-chloroethyl)ether	PA / Clean Fill Limits FP-1a / Organics	ND	97	3.9	3.9	ug/Kg
BY50161	$8270-SMR	Benzidine	PA / Clean Fill Limits FP-1a / Organics	ND	180	78	78	ug/Kg
BY50161	$8270-SMR	4-Nitroaniline	PA / Clean Fill Limits FP-1a / Organics	ND	120	31	31	ug/Kg
BY50161	$8270-SMR	3-Nitroaniline	PA / Clean Fill Limits FP-1a / Organics	ND	250	33	33	ug/Kg
BY50161	$8270-SMR	2-Nitroaniline	PA / Clean Fill Limits FP-1a / Organics	ND	250	38	38	ug/Kg
BY50161	$8270-SMR	2,4-Dinitrotoluene	PA / Clean Fill Limits FP-1a / Organics	ND	140	50	50	ug/Kg
BY50161	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	47.4	0.33	30		mg/Kg
BY50161	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	69.7	0.33	50	50	mg/kg
BY50161	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	66.0	0.33	30	30	mg/Kg
BY50162	$NJADD-SM	Acrolein	PA / Clean Fill Limits FP-1a / Organics	ND	2.2	0.62	0.62	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

July 06, 2017 SDG I.D.: GBY50161

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOA Narration

CHEM05 06/30/17-1: BY50161

The following Initial Calibration compounds did not meet RSD% criteria: 2,4-Dinitrophenol 29% (20%), Benzidine 35% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.068 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.061 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM25 07/05/17-1: BY50161

The following Initial Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.074 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Pentachlorophenol 41%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Pentachlorophenol 41%H (40%)
The following Continuing Calibration compounds did not meet recommended response factors: Hexachlorobenzene 0.074 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 06/29/17-2: BY50162

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 21% (20%), Bromoform 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.088 (0.1), Acrolein 0.031 (0.05), Bromoform 0.097 (0.1), Tetrachloroethene 0.165 (0.2)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: Acrolein 0.031 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

July 06, 2017

SDG I.D.: GBY50161

The samples in this delivery group were received at 4.3°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4.3 C Pg 1 of 1

Data Delivery:
[ ] Fax#: _____
[X] Email: cquinonez@hydrotechenvironmental.com

Customer: Hydro Tech Environmental, Corp.
Address: 77 Arkay Dr. Suite G
Hauppauge NY 11788

Project: 32-01 57th Street, Queens NY
Report to: Carlos Quiñonez
Invoice to: Muslima Ward
Phone #: 631-462-5866
Fax#: 631-462-5877

Project P.O: 1232

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: 6/29/17

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Long Island Clean Fill Sampling Parameters	Total VOCs	TCLP Metals, Paint Filters	5oz VOA wt Vial (unpreserved)	Soil VOA Vials [ ] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
501601	WC-1 (0-2) Composite	S	6/29/17	9:00am	X			1		2								
501602	WC-1A (0-2) Grab	S	6/29/17	↓		X		1	X									
501603	WC-1E (0-2) Side grab	S	6/29/17	↓			X			2								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-29-17	11:30 AM
[signature]	[signature]	6-29-17	15:30

Comments, Special Requirements or Regulations:
Compare to Part 375 unrestricted Use SCOs, PA Clean fill Limits, NJDEP SRP residential & non-residential direct contact soil remediation standards. EPA Hazardous waste Limits. See attachment for LEC sampling protocol

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard 4 day
[X] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: NY

Data Format
[X] Excel
[ ] PDF
[ ] GIS/Key
[X] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Clean Earth Sampling Protocol
Philadelphia

GBY501161

PARAMETERS		TOTAL PETROLEUM HYDROCARBONS (TPHC): GRO & DRO - Expanded to C44 (GRAB SAMPLE)	BTEX (GRAB SAMPLE)	TOX (GRAB SAMPLE)	TOTAL VOLATILE ORGANICS (GRAB SAMPLE)	TOTAL SEMI VOLATILE ORGANICS (GRAB	TOTAL METALS	TCLP METALS RCRA + Cu, Ni, Zn	IGNITABILITY	CORROSIVITY (PH)	REACTIVITY - SULFIDE AND CYANIDE	PCBs	TOTAL SULFUR	TCLP VOLATILE ORGANICS (GRAB SAMPLE)	TCLP SEMI VOLATILE ORGANICS	TCLP HERBICIDES	TCLP PESTICIDES
METHODS		8015M (expanded to C44)	8260B	9023	8260B	8270D	6010	1311/6010	1010A	9040C	SW846 CHAPTER 7.3	8082A	ASTM D129 or equivelent	1311/ 8260B	1311/ 8270D	1311/ 8151A	1311/ 8081B
	FREQUENCY																
VIRGIN PETROLEUM (see below "" for residential requirements and definition)	Grab Sample Every 250 tons	X															
	Grab - every 1000 tons		X														
	5 point composite - every 1000 tons						X	X	X	X	X						
Limit (mg/Kg)		GRO <30,000; DRO <100,000		1,000	30,000		End Use Criteria	Below RCRA Toxicity Level	Negative	> 2 - <12.5	Sulfide <500 Cyanide <250	<48	No Limit	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level
HISTORIC FILL/ WASTE PETROLEUM/ USED (WASTE) OIL	Grab Sample Every 250 tons	X															
	Grab - every 1000 tons				X									X			
	5 point composite - every 1000 tons					X	X	X	X	X	X	X			X	X	X
Limit (mg/Kg)		GRO <30,000; DRO <100,000		1,000	30,000		End Use Criteria	Below RCRA Toxicity Level	Negative	> 2 - <12.5	Sulfide <500 Cyanide <250	<48	No Limit	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level
MGP (COAL TAR)	Grab Sample Every 250 tons	X															
	Grab - every 1000 tons			X	X									X			
	5 point composite - every 1000 tons					X	X	X	X	X	X	X	X		X	X	X
Limit (mg/Kg)		GRO <30,000; DRO <100,000		1,000	30,000		End Use Criteria	Below RCRA Toxicity Level	Negative	> 2 - <12.5	Sulfide <500 Cyanide <250	<48	No Limit	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level	Below RCRA Toxicity Level

(1) The methods provided are standard EPA methods. The method revisions are subject to change and the most current method should always be utilized by the laboratory.

This is to be used as a guideline for sampling. Sampling frequencies and parameter requirements may be modified at the discretion of the CE Approval staff based items such as site history, levels of contamination and/or source of contamination, etc.

***Virgin petroleum soils, less than 50 tons from a residential source require only TPH-DRO to C44(EPA 8015M) and TOX(EPA 9023) analysis for acceptance into Clean Earth of Philadelphia. Residential is defined as a single family or multiple unit dwelling containing no more than 4 units and cannot be part of a commercial building.**

12/18/2012

Clean Earth Sampling Protocol
Carteret

GB4501G1

PARAMETERS	TPH	TOTAL VOLATILE ORGANICS	PAHs	TOTAL METALS RCRA	TCLP METALS RCRA	IGNITABILITY	CORROSIVITY (PH)	REACTIVITY - SULFIDE AND CYANIDE	PCBs
METHODS (1)	8015M	8260B	8270	6010	1311/6010	1010A	9040C	SW846 CHAPTER 7.3	8082A
FREQUENCY									
RESIDENTIAL	5 point grab composite every 100 cy (1 grab/20 cy)	X								
	8 point grab composite every 800 cy (1 grab/100 cy)		X							
Limit		<15,000				Below RCRA Toxicity Level	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<2
COMMERCIAL	5 point grab composite every 100 cy (1 grab/20 cy)	X								
	8 point grab composite every 800 cy (1 grab/100 cy)		X	X	X	X	X	X	X	X
Limit		<15,000			End Use Criteria	Below RCRA Toxicity Level	Negative	>2 - <12.5	Sulfide <500 Cyanide <250	<2

(1) The methods provided are standard EPA methods. The method revisions are subject to change and the most current method should always be utilized by the laboratory.

This is to be used as a guideline for sampling. Sampling frequencies and parameter requirements may be modified at the discretion of the CE Approval staff based items such as site history, levels of contamination and/or source of contamination, etc.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 4.3 C Pg 1 of 1

Data Delivery:
[ ] Fax #:
[X] Email: cquinonez@hydrotechenvironmental.com

Customer: Hydro Tech Environmental, Corp.
Address: 77 Arkay Dr. Suite G
Hauppauge NY 11788

Project: 32-01 57th Street, Ozon NY
Report to: Carlos Quiñonez
Invoice to: Muslima Ward
Phone #: 631-462-5866
Fax #: 631-462-5877

Project P.O: 1232

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: 6/29/17

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Look @ Clean Earth Sampling Parameter	Total VOCs	TCLP Metal, Pesticides, Filters	5035 (VOA vial) Vial (unpreserved)	Soil VOA Vials [ ] methanol (2) H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
501601	WC-1(0-2) Composite	S	6/29/17	9:00am	X			1		2								
501602	WC-1A(0-2) Grab	S	6/29/17	↓		X		1	X									
501603	WC-1E (0-2) Site grab	S	6/29/17	↓			X			2								

Relinquished by:	Accepted by:	Date:	Time:
		6-29-17	11:30
		6-29-17	15:30

Comments, Special Requirements or Regulations:
Compare to Part 375 unrestricted Use SCOs, PA Clean fill Limits, NJDEP SRP residential & non-residential direct contact soil remediation standards. EPA Hazardous waste Limits. See attachment for CEC sampling protocol

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard 4 day
[X] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: NY

Data Format
[X] Excel
[ ] PDF
[ ] GIS/Key
[X] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

* Added Clean Earth Historic Fill parameters per Client. SW

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 28, 2017

FOR: Attn:
HydroTech Environmental Corp.
77 Arkay Drive
Hauppauge, NY 11788

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/26/17	
Location Code:	HYDROTEK	Received by:	SW	07/26/17	15:18
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	1314				

Laboratory Data

SDG ID: GBY72901
Phoenix ID: BY72901

Project ID: 82-01 57TH ST QUEENS NY
Client ID: WC-1(0-2) COMPOSITE

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	ND		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Aluminum	9240		54	7.2	mg/Kg	10	07/27/17	LK	SW6010C	B
Arsenic	4.29		0.72	0.72	mg/Kg	1	07/27/17	LK	SW6010C	
Barium	55.8		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Beryllium	0.48		0.29	0.14	mg/Kg	1	07/27/17	LK	SW6010C	
Calcium	2140		5.4	3.3	mg/Kg	1	07/27/17	LK	SW6010C	
Cadmium	0.71		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Cobalt	7.24		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Chromium	153		3.6	3.6	mg/Kg	10	07/27/17	LK	SW6010C	
Copper	110		0.36	0.36	mg/kg	1	07/27/17	LK	SW6010C	
Iron	16900		54	36	mg/Kg	10	07/27/17	LK	SW6010C	
Mercury	0.09		0.03	0.02	mg/Kg	1	07/27/17	RS	SW7471B	
Potassium	941		5.4	2.8	mg/Kg	1	07/27/17	LK	SW6010C	
Magnesium	2770		5.4	3.6	mg/Kg	1	07/27/17	LK	SW6010C	
Manganese	275		3.6	3.6	mg/Kg	10	07/27/17	LK	SW6010C	
Sodium	155		5.4	3.1	mg/Kg	1	07/27/17	LK	SW6010C	
Nickel	117		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Lead	68.1		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Antimony	3.1	J	3.6	1.8	mg/Kg	1	07/27/17	LK	SW6010C	
Selenium	ND		1.4	1.2	mg/Kg	1	07/27/17	LK	SW6010C	
Thallium	ND		3.2	1.4	mg/Kg	1	07/27/17	LK	SW6010C	
Vanadium	46.9		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	
Zinc	130		0.36	0.36	mg/Kg	1	07/27/17	LK	SW6010C	B
Percent Solid	89				%		07/26/17	Q	SW846-%Solid	
Chromium, Hex. (SW3060 digestion)	2.86		0.45	0.45	mg/Kg	1	07/27/17	KDB	SW7196A	
pH at 25C - Soil	7.54		1.00	1.00	pH Units	1	07/26/17 20:46	O	SW9045	1
Redox Potential	230				mV	1	07/26/17	O	SM2580B-09	1
Soil Extraction for Pest	Completed						07/26/17	JC/V	SW3545A	

Project ID: 82-01 57TH ST QUEENS NY
Client ID: WC-1(0-2) COMPOSITE

Phoenix I.D.: BY72901

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed					07/26/17	JJ/CKV	SW3545A
Mercury Digestion	Completed					07/27/17	W/W	SW7471B
Total Metals Digest	Completed					07/26/17	L/AG	SW3050B
Pesticides - Soil								
4,4' -DDD	ND	0.0022	0.0022	mg/Kg	2	07/27/17	CW	SW8081B
4,4' -DDE	ND	0.0022	0.0022	mg/Kg	2	07/27/17	CW	SW8081B
4,4' -DDT	0.0038	0.0022	0.0022	mg/Kg	2	07/27/17	CW	SW8081B
a-BHC	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
a-Chlordane	0.0041	0.0037	0.0037	mg/Kg	2	07/27/17	CW	SW8081B
Aldrin	ND	0.0037	0.0037	mg/Kg	2	07/27/17	CW	SW8081B
b-BHC	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Chlordane	ND	0.037	0.037	mg/Kg	2	07/27/17	CW	SW8081B
d-BHC	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Dieldrin	ND	0.0037	0.0037	mg/Kg	2	07/27/17	CW	SW8081B
Endosulfan I	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Endosulfan II	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Endosulfan sulfate	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Endrin	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Endrin aldehyde	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Endrin ketone	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
g-BHC	ND	0.0015	0.0015	mg/Kg	2	07/27/17	CW	SW8081B
g-Chlordane	ND	0.0037	0.0037	mg/Kg	2	07/27/17	CW	SW8081B
Heptachlor	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Heptachlor epoxide	ND	0.0073	0.0073	mg/Kg	2	07/27/17	CW	SW8081B
Methoxychlor	ND	0.037	0.037	mg/Kg	2	07/27/17	CW	SW8081B
Toxaphene	ND	0.15	0.15	mg/Kg	2	07/27/17	CW	SW8081B
QA/QC Surrogates								
% DCBP	59			%	2	07/27/17	CW	30 - 150 %
% TCMX	72			%	2	07/27/17	CW	30 - 150 %
Volatiles (TCL)								
1,1,1-Trichloroethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,1-Dichloroethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,1-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,2-Dibromoethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,2-Dichloroethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,2-Dichloropropane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
2-Hexanone	ND	0.021	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.021	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
Acetone	0.005 JS	0.042	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
Benzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C

Project ID: 82-01 57TH ST QUEENS NY
Client ID: WC-1(0-2) COMPOSITE

Phoenix I.D.: BY72901

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Bromodichloromethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Bromoform	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Bromomethane	ND	0.0042	0.0017	mg/Kg	1	07/26/17	JLI	SW8260C
Carbon Disulfide	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Carbon tetrachloride	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Chlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Chloroethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Chloroform	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Chloromethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Cyclohexane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Dibromochloromethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Ethylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Isopropylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
m&p-Xylene	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Methyl ethyl ketone	ND	0.025	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0084	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Methylacetate	ND	0.0034	0.0021	mg/Kg	1	07/26/17	JLI	SW8260C
Methylcyclohexane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Methylene chloride	ND	0.021	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
o-Xylene	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Styrene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Tetrachloroethene	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Toluene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Total Xylenes	ND	0.0042	0.0042	mg/Kg	1	07/26/17	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Trichloroethene	0.0012 J	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Trichlorofluoromethane	ND	0.0042	0.00084	mg/Kg	1	07/26/17	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
Vinyl chloride	ND	0.0042	0.00042	mg/Kg	1	07/26/17	JLI	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	07/26/17	JLI	70 - 130 %
% Bromofluorobenzene	93			%	1	07/26/17	JLI	70 - 130 %
% Dibromofluoromethane	104			%	1	07/26/17	JLI	70 - 130 %
% Toluene-d8	97			%	1	07/26/17	JLI	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	0.063	0.034	mg/Kg	1	07/26/17	JLI	SW8260C
Semivolatiles								
1,1-Biphenyl	ND	0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D
1,2,4,5-Tetrachlorobenzene	ND	0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D
2,3,4,6-tetrachlorophenol	ND	0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D

Project ID: 82-01 57TH ST QUEENS NY
Client ID: WC-1(0-2) COMPOSITE

Phoenix I.D.: BY72901

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dimethylphenol	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
2,4-Dinitrophenol	ND		0.59	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
2,4-Dinitrotoluene	ND		0.26	0.14	mg/Kg	1	07/26/17	DD	SW8270D	
2,6-Dinitrotoluene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
2-Chloronaphthalene	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D	
2-Chlorophenol	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
2-Methylnaphthalene	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
2-Nitroaniline	ND		0.59	0.26	mg/Kg	1	07/26/17	DD	SW8270D	
2-Nitrophenol	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		0.37	0.066	mg/Kg	1	07/26/17	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		0.44	0.17	mg/Kg	1	07/26/17	DD	SW8270D	
3-Nitroaniline	ND		0.59	0.15	mg/Kg	1	07/26/17	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		1.1	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		0.37	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
4-Chloro-3-methylphenol	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
4-Chloroaniline	ND		0.26	0.15	mg/Kg	1	07/26/17	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
4-Nitroaniline	ND		0.59	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
4-Nitrophenol	ND		1.1	0.066	mg/Kg	1	07/26/17	DD	SW8270D	
Acenaphthene	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Acenaphthylene	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D	
Acetophenone	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Anthracene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Atrazine	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Benz(a)anthracene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Benzaldehyde	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Benzo(a)pyrene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Benzo(b)fluoranthene	ND		0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D	
Benzo(ghi)perylene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Benzo(k)fluoranthene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Benzyl butyl phthalate	ND		0.26	0.094	mg/Kg	1	07/26/17	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		0.37	0.099	mg/Kg	1	07/26/17	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	0.23	J	0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Caprolactam	ND		0.26	0.18	mg/Kg	1	07/26/17	DD	SW8270D	
Carbazole	ND		0.37	0.18	mg/Kg	1	07/26/17	DD	SW8270D	
Chrysene	0.13	J	0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Dibenz(a,h)anthracene	ND		0.18	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Dibenzofuran	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Diethyl phthalate	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Dimethylphthalate	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Di-n-butylphthalate	ND		0.26	0.097	mg/Kg	1	07/26/17	DD	SW8270D	
Di-n-octylphthalate	ND		0.26	0.094	mg/Kg	1	07/26/17	DD	SW8270D	
Fluoranthene	0.17	J	0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Fluorene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D	
Hexachlorobenzene	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D	
Hexachlorobutadiene	ND		0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Hexachlorocyclopentadiene	ND		0.26	0.26	mg/Kg	1	07/26/17	DD	SW8270D
Hexachloroethane	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND		0.26	0.12	mg/Kg	1	07/26/17	DD	SW8270D
Isophorone	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D
Naphthalene	ND		0.26	0.11	mg/Kg	1	07/26/17	DD	SW8270D
Nitrobenzene	ND		0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D
N-Nitrosodimethylamine	ND		0.37	0.1	mg/Kg	1	07/26/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND		0.18	0.12	mg/Kg	1	07/26/17	DD	SW8270D
N-Nitrosodiphenylamine	ND		0.37	0.14	mg/Kg	1	07/26/17	DD	SW8270D
Pentachlorophenol	ND		0.37	0.066	mg/Kg	1	07/26/17	DD	SW8270D
Phenanthrene	ND		0.26	0.1	mg/Kg	1	07/26/17	DD	SW8270D
Phenol	ND		0.26	0.066	mg/Kg	1	07/26/17	DD	SW8270D
Pyrene	0.16	J	0.26	0.13	mg/Kg	1	07/26/17	DD	SW8270D
QA/QC Surrogates									
% 2,4,6-Tribromophenol	69				%	1	07/26/17	DD	30 - 130 %
% 2-Fluorobiphenyl	73				%	1	07/26/17	DD	30 - 130 %
% 2-Fluorophenol	57				%	1	07/26/17	DD	30 - 130 %
% Nitrobenzene-d5	64				%	1	07/26/17	DD	30 - 130 %
% Phenol-d5	62				%	1	07/26/17	DD	30 - 130 %
% Terphenyl-d14	65				%	1	07/26/17	DD	30 - 130 %
SVOA Library Search Top 15	Completed						07/27/17	DD	

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

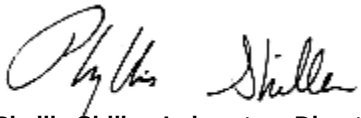
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
July 28, 2017
Official Report Release To Follow

Sample Criteria Exceedances Report

GBY72901 - HYDROTEK

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BY72901	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	3.8	2.2	3.3	3.3	ug/Kg
BY72901	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	153	3.6	30		mg/Kg
BY72901	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	110	0.36	50	50	mg/kg
BY72901	HEXCRSM	Chromium, Hex. (SW3060 digestion)	NY / 375-6.8 Metals / Unrestricted Use Soil	2.86	0.45	1	1	mg/Kg
BY72901	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	117	0.36	30	30	mg/Kg
BY72901	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	68.1	0.36	63	63	mg/Kg
BY72901	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	130	0.36	109	109	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

CHAIN OF CUSTODY RECORD

Temp 3 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #:
☑ Email: SPerez@hydrotechenvironmental.com

Customer: Hydro Tech Environmental Corp.
Address: 77 Arkay Dr. Suite G
Hauppauge NY 11788

Project: 32-01 57th Street Queens NY
Report to: Sudiey Perez
Invoice to: Muslima Ward
Phone #: 631-462-5866
Fax #: 631-462-5877

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature
Client Sample - Information - Identification
Date: 7/26/17

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Pesticides	TAL Metals	Hexavalent Chromium	TAL Metals	TCL VOCs	TCL SVOCs	1,1-biphenyl	Azrazine	Benzaldehyde	Unpreserved 40mL Vial	Soil VOA Vials [ ]Methanol [ ]H2O	GL Soil container (8)oz	GL Soil container ( )oz	40 ml VOA Vial [ ]As is [ ]HCl	GL Amber 1000ml [ ]As is [ ]H2SO4	PL As is [ ]250ml [ ]As is [ ]H2SO4	PL H2SO4 [ ]250ml [ ]500ml [ ]1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
72901	MC-1(0-2)composite	S	7/26/17		X	X	X	X	X	X	X	X	X	X	1	X	2							

Relinquished by:	Accepted by:	Date:	Time:
		7-26	13:00
		7-26	15:18

Comments, Special Requirements or Regulations:
Compare to NY375 Unrestricted soil, NY375 Residential Soil and NB75 Restricted non-residential soil.

2-DAY TAT

Turnaround:
☐ 1 Day*
☑ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: NY

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

CLEANEARTH

Manifest # 129921

GLOBAL JOB NUMBER: 145582/173030062 **FACILITY APPROVAL NUMBER:** PPNJ 080417
DS21
Project # 17-07

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washingto
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☒ Other PPark NJ
100 Planters Ave
Prospect Park NJ
07508

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Tibetan Community of NY & NJ	GROSS WEIGHT: ☒Tons ☐Yards	
32-01 57th St	TARE WEIGHT: ☒Tons ☐Yards	
Queens NY 11377		
GENERATOR'S PHONE: 917 640 7899	NET WEIGHT: ☒Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-reg material, Non DOT, Non RCRA, NJ SCS Res Clean Soil.
Approved grid WC-1 (0-2 bgs)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state la
is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by
CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper conditi
for transportation according to all applicable state and federal regulations.

Name: HARJIT SINGH Title: Excavator / Contractor

Signature: Harjit Singh Date and Time: 8/9/17 9:30 AM

TRANSPORTER

Company: Shirley xpress LLC Phone Number:

Address: Hollyde, NJ Truck # and License Plate: 04-AP4944

Driver: Carlos SW Haulers Permit #:
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Carlos Date and Time: 8-9-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

GENERATOR

CLEANEARTH

Manifest # 1299499

GLOBAL JOB NUMBER: 143587 **FACILITY APPROVAL NUMBER:** 2703903

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Hess Retail Operation Company of NJ LLC		
1201 57th Street	TARE WEIGHT: ☒ Tons ☐ Yards	
Woodside, NY		
GENERATOR'S PHONE:	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non-Hazardous Petroleum Contaminated Soil

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 7-11-17

TRANSPORTER

Company: JC Transport Inc Phone Number: 201-307-0040

Address: 38 S Pyle Ave N Arlington NJ 07031 Truck # and License Plate: 31

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1299500

GLOBAL JOB NUMBER: 14087 **FACILITY APPROVAL NUMBER:** 17071005

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Hazel Steel/Tiberon Construction of NY & NJ 32-01 9th Street Woodside, NY	TARE WEIGHT: ☐ Tons ☐ Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1259531

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒Tons ☐Yards	
	TARE WEIGHT: ☒Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☒Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1239504

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # 152487

GLOBAL JOB NUMBER: [illegible] **FACILITY APPROVAL NUMBER:** [illegible]

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☑ Other [illegible]

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
[illegible]	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: [illegible]	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

[illegible]

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: [illegible]

Signature: [illegible] Date and Time: [illegible]

TRANSPORTER

Company: [illegible] Phone Number:

Address: Truck # and License Plate: [illegible]

Driver: [illegible] SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: [illegible]

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [illegible] Date and Time: [illegible]

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

SITE

CLEAN EARTH

Manifest # 1524875

GLOBAL JOB NUMBER: [illegible] **FACILITY APPROVAL NUMBER:** [illegible]

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☑ Other [illegible]

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # 1523903

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: PM

Signature: _____ Date and Time: 9-19-13

TRANSPORTER

Company: JDC Trucking Phone Number: _____

Address: Kearny N.J. Truck # and License Plate: #11 AM277

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 9/19/13

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1523909

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 5-13-19

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 5-16-19

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1299216

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

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7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: 3-17-17

TRANSPORTER

Company: TDC TRUCKING Phone Number: _____

Address: _____ Truck # and License Plate: #3 A5710D

Driver: Ozenz SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8/18/17 10:30

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8/18/17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # 1523811

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: JDC Phone Number: _____

Address: _____ Truck # and License Plate: AJ 1034

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 939213

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 929214

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
	TARE WEIGHT: ☒ Tons ☐ Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # [illegible]

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
	TARE WEIGHT: ☒ Tons ☐ Yards	
GENERATOR'S PHONE:	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: RLS Transportation Phone Number: _____

Address: [illegible] Truck # and License Plate: [illegible]

Driver: Luis SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-21-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-21-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEANEARTH

Manifest # 1235844

GLOBAL JOB NUMBER: _____ **FACILITY APPROVAL NUMBER:** _____

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☐Tons ☐Yards	
	TARE WEIGHT: ☐Tons ☐Yards	
GENERATOR'S PHONE: _____	NET WEIGHT: ☐Tons ☐Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: _____ Title: _____

Signature: _____ Date and Time: _____

TRANSPORTER

Company: _____ Phone Number: _____

Address: _____ Truck # and License Plate: _____

Driver: _____ SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: _____

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # 1434796

GLOBAL JOB NUMBER: [illegible] **FACILITY APPROVAL NUMBER:** [illegible]

Please Check One:

☐ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other [illegible]

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
[illegible]	TARE WEIGHT: ☑ Tons ☐ Yards	
GENERATOR'S PHONE: [illegible]	NET WEIGHT: ☑ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

[illegible]

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: PM

Signature: [illegible] Date and Time: 9-21-17

TRANSPORTER

Company: JDC Trucking Phone Number:

Address: Keasby N.J. Truck # and License Plate: #10 ATMG2

Driver: [illegible] SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: 9/21/17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: _____

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: _____

SITE

CLEAN EARTH

Manifest # 2434797

GLOBAL JOB NUMBER: [illegible] **FACILITY APPROVAL NUMBER:** [illegible]

Please Check One:

- ☐ Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- ☐ Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- ☐ Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- ☐ Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- ☐ Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- ☐ Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- ☐ Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- ☒ Other: [illegible]

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☑ Tons ☐ Yards	
[illegible]	TARE WEIGHT: ☑ Tons ☐ Yards	
GENERATOR'S PHONE: [illegible]	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

[illegible]

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: [illegible] Title: PM

Signature: [illegible] Date and Time: 5-21-12

TRANSPORTER

Company: [illegible] Phone Number:

Address: Truck # and License Plate:

Driver: SW Haulers Permit #:

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [illegible] Date and Time: [illegible]

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time:

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time:

SITE

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000695859

	Date	Time	Scale
In:	8/11/2017	14:44:06	CECSCALE1
Out:	8/11/2017	14:44:19	

Manifest: 1299500

Vehicle ID: 07JC30

Vehicle Permit:

	Lbs.	Tns
Gross:	91960.00	45.98
Tare:	30360.00	15.18
Net:	61600.00	30.80

Customer: SJH CONTRACTING

Carrier: .

Facility Approval#: 173071005

Generator: Harjut Singh

Job Name: Harjit Singh/Tibetan Community of NY & N

Gen Address: 130-18 123rd Street
South Ozone Park, NY 07008

Job Address: 32-01 57th Street
Woodside, NY 11377

Contaminate Type	Quantity	Unit
Soil Treatment Type II	30.8000	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1299500

GLOBAL JOB NUMBER: 145882 **FACILITY APPROVAL NUMBER:** 173071005

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: Harjit Singh/Tibetan Community of NY & NJ	GROSS WEIGHT: [X] Tons [ ] Yards
32-01 57th Street	TARE WEIGHT: [X] Tons [ ] Yards
Woodside, NY	
GENERATOR'S PHONE:	NET WEIGHT: [X] Tons [ ] Yards

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non reg, NON DOT, NON RCRA, NJ SRS clean soil
Approved grid WC-1 (0-2 bgs)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Javier Galindo Title: pm

Signature: Date and Time: 8-11-17

TRANSPORTER

Company: JC Transport Inc Phone Number: JC#30 201-997-60-80

Address: 39-43 Ports Ave, N Arlington, NJ 07031 Truck # and License Plate: AT-7780

Driver: JUAN JACOBO (Type or Print Clearly) SW Haulers Permit #: (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Date and Time: 8-11-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Date and Time: 8-11-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: Date and Time: 8-11-17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000695370

	Date	Time	Scale
In:	8/11/2017	10:22:44	CECSCALE1
Out:	8/11/2017	10:23:07	

Manifest: 1299504

Vehicle ID: 07JC31

Vehicle Permit:

	Lbs.	Tns
Gross:	87280.00	43.64
Tare:	29760.00	14.88
Net:	57520.00	28.76

Customer: SJH CONTRACTING

Carrier: .

Facility Approval#: 173071005

Generator: Harjut Singh

Job Name: Harjit Singh/Tibetan Community of NY & N

Gen Address: 130-18 123rd Street
South Ozone Park, NY 07008

Job Address: 32-01 57th Street
Woodside, NY 11377

Contaminate Type	Quantity	Unit
Soil Treatment Type II	28.7600	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1299504

GLOBAL JOB NUMBER: 145882 **FACILITY APPROVAL NUMBER:** 173071005

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: [X] Tons [ ] Yards	
Harjit Singh/Tibetan Community of NY & NJ		
32-01 57th Street	TARE WEIGHT: [X] Tons [ ] Yards	
Woodside, NY		
GENERATOR'S PHONE:	NET WEIGHT: [X] Tons [ ] Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non reg. NON DOT, NON RCRA, NJ SRS clean soil
Approved grid WG1 (0-2 bgs).

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Javier Galindo Title: PM

Signature: _____ Date and Time: 8-11-17

TRANSPORTER

Company: JC Transport Inc Phone Number: 201-997-60-80

Address: 39-43 Porte Ave, N Arlington, NJ 07031 Truck # and License Plate: 31 AT 7190

Driver: ANDERSON ZAMBIACOMO SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-11-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-11-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8/11/17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000695377

	Date	Time	Scale
In:	8/11/2017	10:24:56	CECSCALE1
Out:	8/11/2017	10:25:04	

Manifest: 1299501

Vehicle ID: 07JC30

Vehicle Permit:

	Lbs.	Tns
Gross:	86300.00	43.15
Tare:	30360.00	15.18
Net:	55940.00	27.97

Customer: SJH CONTRACTING

Carrier: .

Facility Approval#: 173071005

Generator: Harjut Singh

Job Name: Harjit Singh/Tibetan Community of NY & N

Gen Address: 130-18 123rd Street
South Ozone Park, NY 07008

Job Address: 32-01 57th Street
Woodside, NY 11377

Contaminate Type	Quantity	Unit
Soil Treatment Type II	27.9700	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1299501

GLOBAL JOB NUMBER: 145882 **FACILITY APPROVAL NUMBER:** 173071005

Please Check One:

☒ Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 732-541-8909

☐ Clean Earth of Maryland
1469 Oak Ridge Place
Hagerstown, MD 21740
Ph: 301-791-6220

☐ Clean Earth of New Castle
94 Pyles Lane
New Castle, DE 19720
Ph: 302-427-6633

☐ Clean Earth of Greater Washington
6250 Dower House Road
Upper Marlboro, MD 20772
Ph: 301-599-0939

☐ Clean Earth of Philadelphia
3201 S. 61st Street
Philadelphia, PA 19153
Ph: 215-724-5520

☐ Clean Earth of North Jersey
115 Jacobus Avenue
Kearny, NJ 07032
Ph: 973-344-4004

☐ Clean Earth of Southeast Pennsylvania
7 Steel Road East
Morrisville, PA 19067
Ph: 215-428-1700

☐ Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: ☒ Tons ☐ Yards	
Harjit Singh/Tibetan Community of NY & NJ		
32-01 57th Street	TARE WEIGHT: ☒ Tons ☐ Yards	
Woodside, NY		
GENERATOR'S PHONE:	NET WEIGHT: ☒ Tons ☐ Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non reg, NON DOT, NON RCRA, NJ SRS clean soil
Approved grid WC-1 (0-2 bgs).

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Javier Galindo Title: pm

Signature: _____ Date and Time: 8-11-17

TRANSPORTER

Company: JC Transport Inc SC#30 Phone Number: 201-997-60-80

Address: 39-43 Porte Ave, N Arlington, NJ 07031 Truck # and License Plate: AT-7780

Driver: JUAN JORGE (Type or Print Clearly) SW Haulers Permit #: _____ (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8-11-17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8-11-17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8/11/17

FACILITY

Clean Earth of Carteret
24 Middlesex Avenue
Carteret, NJ 07008
Ph: 7325418909 Fax: 7325418105

Ticket: 700000695856

	Date	Time	Scale
In:	8/11/2017	14:42:12	CECSCALE1
Out:	8/11/2017	14:42:21	

Manifest: 1299499

Vehicle ID: 07JC31

Vehicle Permit:

	Lbs.	Tns
Gross:	93720.00	46.86
Tare:	29760.00	14.88
Net:	63960.00	31.98

Customer: SJH CONTRACTING

Carrier: .

Facility Approval#: 173071005

Generator: Harjut Singh

Job Name: Harjit Singh/Tibetan Community of NY & N

Gen Address: 130-18 123rd Street
South Ozone Park, NY 07008

Job Address: 32-01 57th Street
Woodside, NY 11377

Contaminate Type	Quantity	Unit
Soil Treatment Type II	31.9800	TONS

Comment:

Driver:

Facility: _____
Gibson, Barry

CLEANEARTH

Manifest # 1299499

GLOBAL JOB NUMBER: 145882 **FACILITY APPROVAL NUMBER:** 173071005

Please Check One:

- [X] Clean Earth of Carteret, 24 Middlesex Avenue, Carteret, NJ 07008, Ph: 732-541-8909
- [ ] Clean Earth of Maryland, 1469 Oak Ridge Place, Hagerstown, MD 21740, Ph: 301-791-6220
- [ ] Clean Earth of New Castle, 94 Pyles Lane, New Castle, DE 19720, Ph: 302-427-6633
- [ ] Clean Earth of Greater Washington, 6250 Dower House Road, Upper Marlboro, MD 20772, Ph: 301-599-0939
- [ ] Clean Earth of Philadelphia, 3201 S. 61st Street, Philadelphia, PA 19153, Ph: 215-724-5520
- [ ] Clean Earth of North Jersey, 115 Jacobus Avenue, Kearny, NJ 07032, Ph: 973-344-4004
- [ ] Clean Earth of Southeast Pennsylvania, 7 Steel Road East, Morrisville, PA 19067, Ph: 215-428-1700
- [ ] Other _____

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS:	GROSS WEIGHT: [X] Tons [ ] Yards	
Harjit Singh/Tibetan Community of NY & NJ		
32-01 57th Street	TARE WEIGHT: [X] Tons [ ] Yards	
Woodside, NY		
GENERATOR'S PHONE:	NET WEIGHT: [X] Tons [ ] Yards	

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

Non Reg, NON DOT, NON RCRA, NJ SRS clean soil

Approved grid WC-1 (0-2 bgs)

GENERATOR'S CERTIFICATION – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: Javier Galindo Title: pm

Signature: _____ Date and Time: 8-11-17

TRANSPORTER

Company: JC Transport Inc Phone Number: 201-997-60-80

Address: 39-43 Porte Ave, N Arlington, NJ 07031 Truck # and License Plate: 31 AT 779J

Driver: ANDERSON ZAUGIACOM. SW Haulers Permit #: _____

(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: _____ Date and Time: 8.11.17

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: _____ Date and Time: 8.11.17

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: _____ Date and Time: 8-11-17

FACILITY

APPENDIX 7

AS-BUILD CONSTRUCTION OF THE BUILDING AT THE SIITE

APPENDIX 8

SVE EFFLUENT SAMPLE LAB REPORT

Technical Report

prepared for:

ATANE Consulting
40 Wall Street, 11th Floor
New York NY, 11419
Attention: Basit Rehman

Report Date: 01/31/2019
Client Project ID: 893 32-01 57th Street Queens Tibetan Community Ctr
York Project (SDG) No.: 18I0945

Report Date: 01/31/2019
Client Project ID: 893 32-01 57th Street Queens Tibetan Community Ctr
York Project (SDG) No.: 18I0945

ATANE Consulting
40 Wall Street, 11th Floor
New York NY, 11419
Attention: Basit Rehman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 19, 2018 with a temperature of C. The project was identified as your project: **893 32-01 57th Street Queens Tibetan Community Ctr**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18I0945-01	SVE-1	Soil Vapor	09/19/2018	09/19/2018

General Notes for York Project (SDG) No.: 18I0945

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/31/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SVE-1 **York Sample ID:** 18I0945-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18I0945	893 32-01 57th Street Queens Tibetan Community Ctr	Soil Vapor	September 19, 2018 2:00 pm	09/19/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.4	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.1	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.4	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.6	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.1	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.83	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.20	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.5	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	1.0	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.6	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.2	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.83	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.94	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.4	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.0	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	1.4	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.2	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.94	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.2	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	1.5	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: SVE-1 **York Sample ID:** 18I0945-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18I0945	893 32-01 57th Street Queens Tibetan Community Ctr	Soil Vapor	September 19, 2018 2:00 pm	09/19/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/m³	0.60	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
591-78-6	* 2-Hexanone	ND		ug/m³	1.7	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	3.2	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.84	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**24**		ug/m³	0.97	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.44	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	Benzene	ND		ug/m³	0.65	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	1.1	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-27-4	Bromodichloromethane	ND		ug/m³	1.4	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-25-2	Bromoform	ND		ug/m³	2.1	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-83-9	Bromomethane	ND		ug/m³	0.79	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-15-0	Carbon disulfide	ND		ug/m³	0.64	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
56-23-5	Carbon tetrachloride	ND		ug/m³	0.32	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-90-7	Chlorobenzene	ND		ug/m³	0.94	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-00-3	Chloroethane	ND		ug/m³	0.54	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-66-3	Chloroform	ND		ug/m³	1.0	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	Chloromethane	ND		ug/m³	0.42	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.20	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.93	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	Cyclohexane	ND		ug/m³	0.70	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	1.7	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: SVE-1 **York Sample ID:** 18I0945-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18I0945	893 32-01 57th Street Queens Tibetan Community Ctr	Soil Vapor	September 19, 2018 2:00 pm	09/19/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/m³	1.0	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
141-78-6	* Ethyl acetate	ND		ug/m³	1.5	2.041	EPA TO-15 Certifications:	09/26/2018 21:18	09/26/2018 21:18	LDS
100-41-4	Ethyl Benzene	ND		ug/m³	0.89	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	2.2	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
67-63-0	Isopropanol	ND		ug/m³	1.0	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.84	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.74	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
75-09-2	**Methylene chloride**	**3.8**		ug/m³	1.4	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
142-82-5	n-Heptane	ND		ug/m³	0.84	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
110-54-3	n-Hexane	ND		ug/m³	0.72	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
95-47-6	o-Xylene	ND		ug/m³	0.89	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
179601-23-1	**p- & m- Xylenes**	**14**		ug/m³	1.8	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
622-96-8	* p-Ethyltoluene	ND		ug/m³	1.0	2.041	EPA TO-15 Certifications:	09/26/2018 21:18	09/26/2018 21:18	LDS
115-07-1	* Propylene	ND		ug/m³	0.35	2.041	EPA TO-15 Certifications:	09/26/2018 21:18	09/26/2018 21:18	LDS
100-42-5	Styrene	ND		ug/m³	0.87	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
127-18-4	Tetrachloroethylene	ND		ug/m³	0.35	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m³	1.2	2.041	EPA TO-15 Certifications:	09/26/2018 21:18	09/26/2018 21:18	LDS
108-88-3	**Toluene**	**18**		ug/m³	0.77	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.81	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.93	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
79-01-6	Trichloroethylene	ND		ug/m³	0.27	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	1.1	2.041	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/26/2018 21:18	09/26/2018 21:18	LDS

Sample Information

Client Sample ID: SVE-1 **York Sample ID:** 18I0945-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18I0945	893 32-01 57th Street Queens Tibetan Community Ctr	Soil Vapor	September 19, 2018 2:00 pm	09/19/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-05-4	Vinyl acetate	ND		ug/m³	0.72	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.89	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.13	2.041	EPA TO-15	09/26/2018 21:18	09/26/2018 21:18	LDS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.8 %*	*70-130*

Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No. 18I0945

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YOUR Information	Report To:	Invoice To:
Company: HAKS ENGINEERS	Company:	Company:
Address: 40-WALL St. 11th Floor, NY, NY, 10005	Address:	Address:
Phone: 212-747-1997 x533	Phone:	Phone:
Contact: BASIT REHMAN	Contact:	Contact:
E-mail: brehman@haks.net	E-mail:	E-mail:

YOUR Project Number: 893

YOUR Project Name: QUEENS 32-01 57th Street, NY Tibetan Community Ctr.

YOUR PO#: 893

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

BASIT REHMAN

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual X

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SVE-1	9/19/18; 2PM	AE	27	7	23996	5705	VOC's, via EPA Method TO-15

Comments:
Please copy Brenda GOMEZ; (bgomez@haks.net) on all correspondence.

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister X
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
B.R / HAKS	9/19/18; 4:05PM				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				Arlen A. Schrik / YORK	9/19/18 16:05

APPENDIX 8

NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

OSR – 3

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Paul Math. Date/Time Prepared 3/28/25

Preparer's Affiliation Hydrotech Env. Phone No. 631 241 7165

Purpose of Investigation Post SSDS startup Indoor Air Assessment

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: TRINLY First Name: PAUJOR

Address: 32-01 57 St

County: _____

Home Phone: 917 407 6605 Office Phone: _____

Number of Occupants/persons at this location — Age of Occupants NA

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential School Commercial/Multi-use
Industrial Church Other: Community Center Religious

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 + basement Building age 84 years

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Stair Case between Floors

Airflow near source

NA

Outdoor air infiltration

through louvers on first floor and toilet ceiling in basement

Infiltration into air ducts

Ventilation through HVAC control system

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Sheet rock	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 9' (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

through Drains and underground opening around oil water separator

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None

Are there air distribution ducts present? (Y)/N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Air ducts are insulated. Duct are suspended from ceiling.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Meeting Hall + toilets + classrooms
1st Floor	Meeting Hall + toilets
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?_____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?_____

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? (Y) / N When & Type? Occasionally

i. Have cosmetic products been used recently? Y / (N) When & Type?_____

j. Has painting/staining been done in the last 6 months? Y (N) Where & When? _____

k. Is there new carpet, drapes or other textiles? Y (N) Where & When? _____

l. Have air fresheners been used recently? Y (N) When & Type? _____

m. Is there a kitchen exhaust fan? (Y) N If yes, where vented? Outdoor through Exit, out door Basement

n. Is there a bathroom exhaust fan? (Y) N If yes, where vented? outdoor 4th out door First Level

o. Is there a clothes dryer? Y (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y (N) When & Type? _____

Are there odors in the building? Y (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) (Unknown)
Yes, work at a dry-cleaning service

Is there a ~~radon~~ SSDS mitigation system for the building/structure? (Y) / N Date of Installation: 2018
Is the system active or passive? (Active)/Passive

9. WATER AND SEWAGE

Water Supply:	(Public Water)	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: NA

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

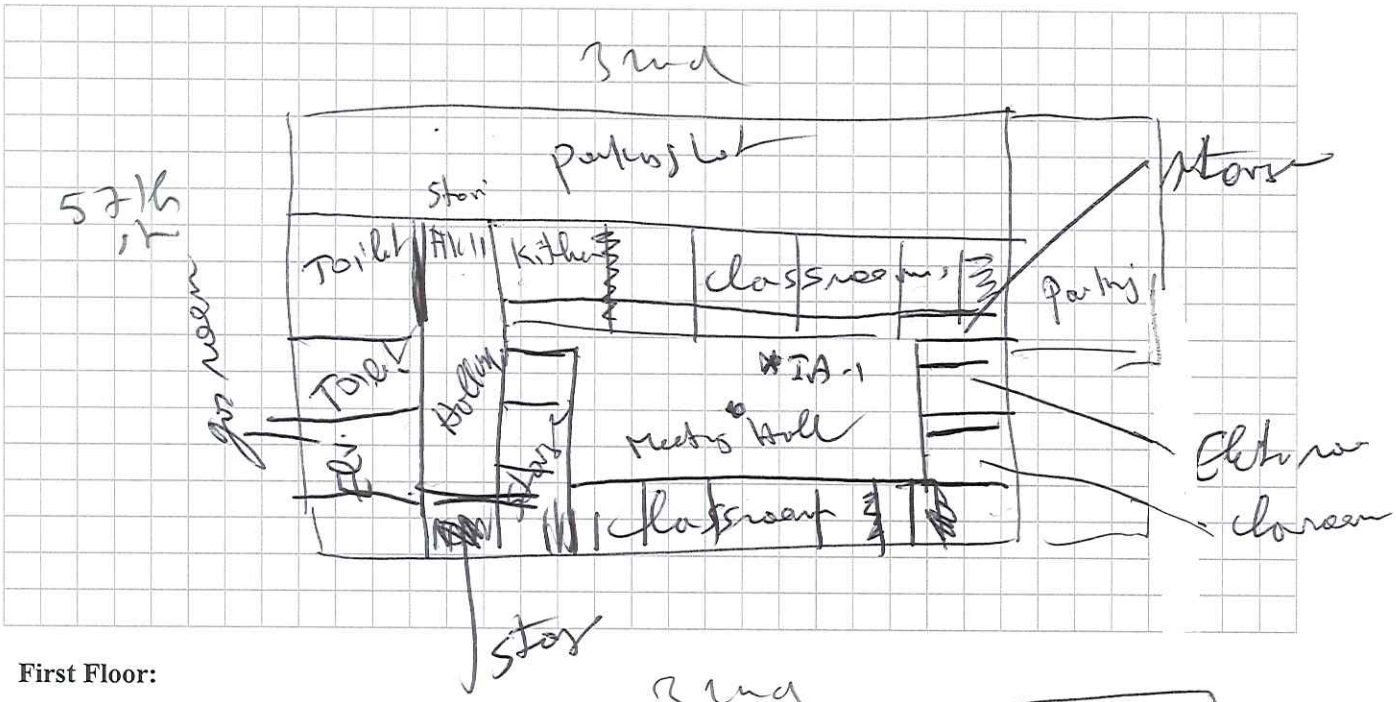
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

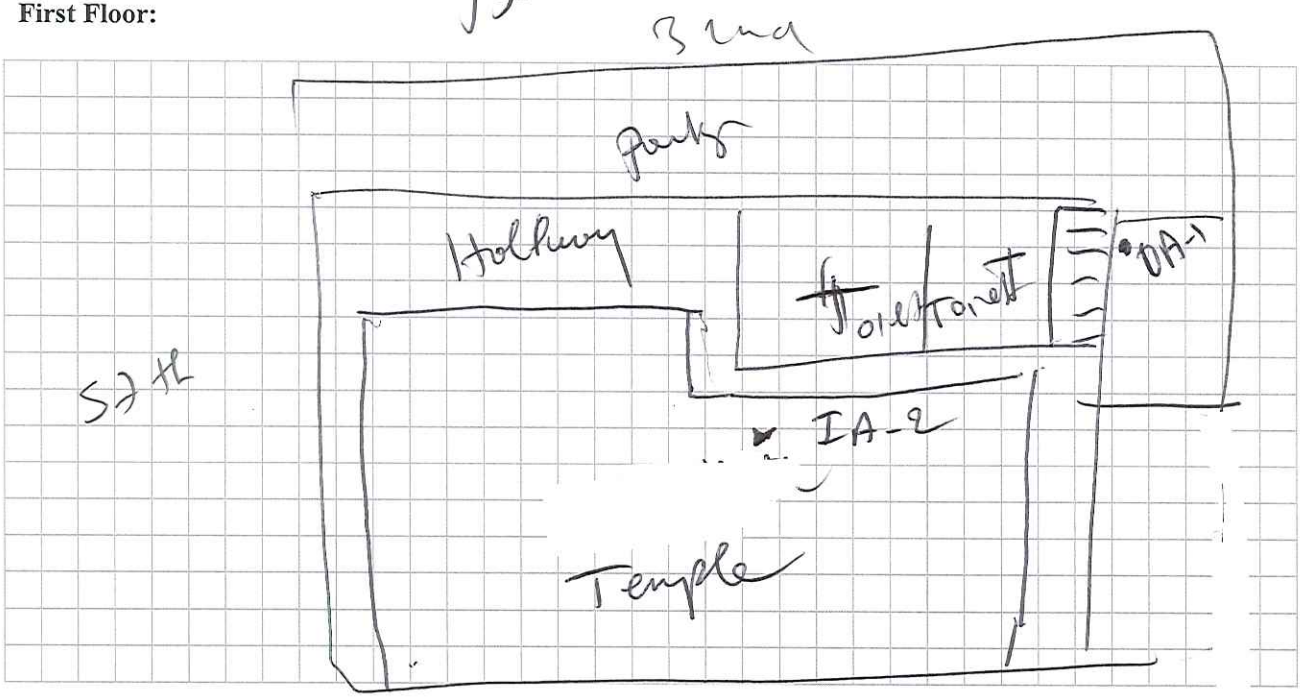
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



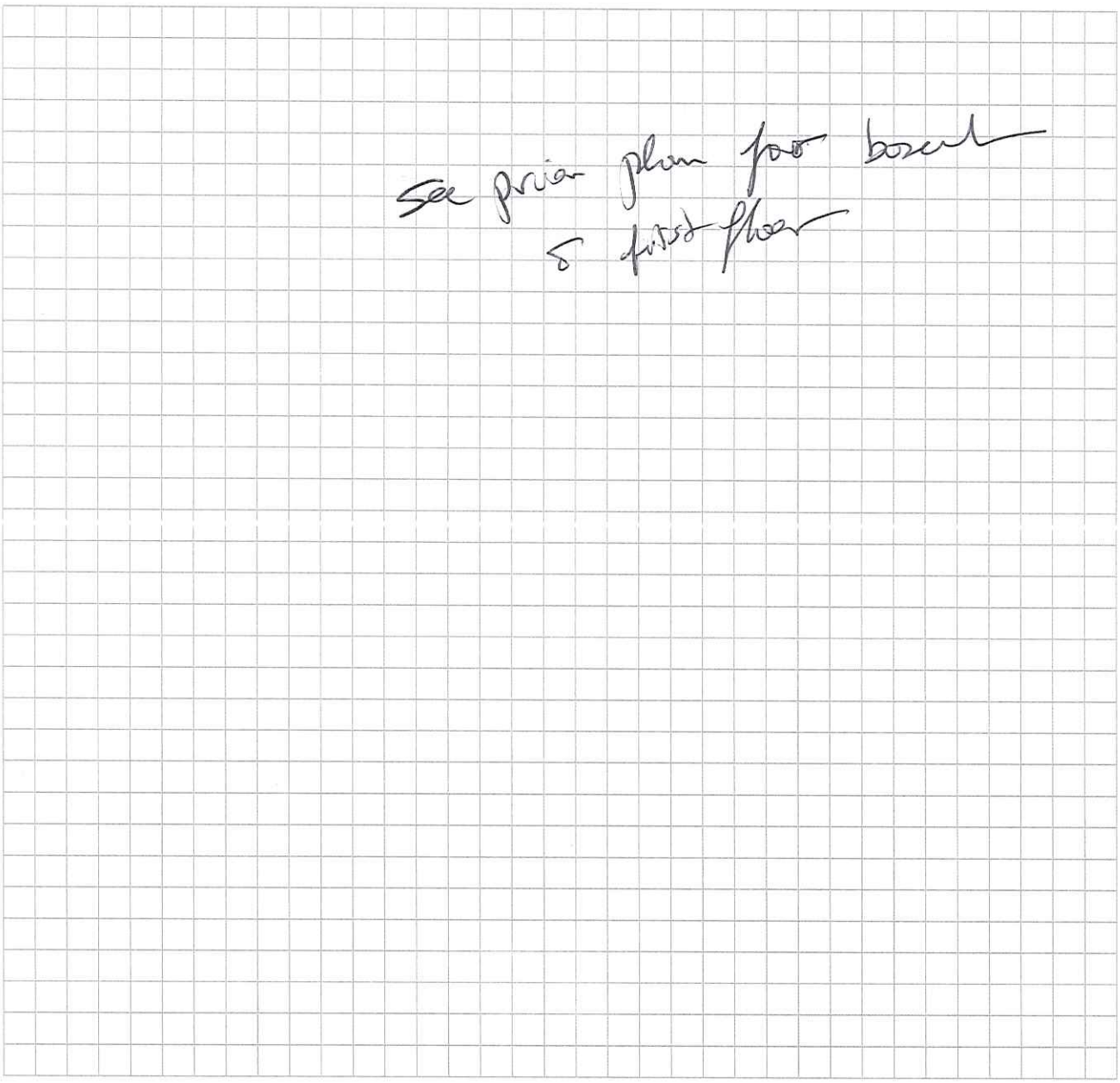
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae PID

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Basement				None	0.0	~~N~~
1st Floor				None	0.0	

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX 9

ON-SITE AMBIENT AIR SAMPLES LAB REPORTS

Technical Report

prepared for:

ATANE Consulting
40 Wall Street, 11th Floor
New York NY, 11419
Attention: Basit Rehman

Report Date: 10/09/2018
Client Project ID: 893 Tibetan Community Center
York Project (SDG) No.: 18J0064

Report Date: 10/09/2018
Client Project ID: 893 Tibetan Community Center
York Project (SDG) No.: 18J0064

ATANE Consulting
40 Wall Street, 11th Floor
New York NY, 11419
Attention: Basit Rehman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 02, 2018 and listed below. The project was identified as your project: **893 Tibetan Community Center**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18J0064-01	IA-1 (Cellar)	Indoor Ambient Air	09/29/2018	10/02/2018
18J0064-02	IA-2 (Main Hall)	Indoor Ambient Air	09/29/2018	10/02/2018
18J0064-03	OA-1	Outdoor Ambient Ai	09/29/2018	10/02/2018

General Notes for York Project (SDG) No.: 18J0064

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 10/09/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **IA-1 (Cellar)** **York Sample ID:** **18J0064-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.63	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.50	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.63	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
76-13-1	**1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)**	**0.92**		ug/m³	0.71	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.50	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.37	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-35-4	**1,1-Dichloroethylene**	**0.18**		ug/m³	0.091	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
120-82-1	**1,2,4-Trichlorobenzene**	**4.6**		ug/m³	0.68	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**13**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.71	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
95-50-1	**1,2-Dichlorobenzene**	**0.83**		ug/m³	0.55	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
107-06-2	**1,2-Dichloroethane**	**1.1**		ug/m³	0.37	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.43	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.64	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**4.2**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.61	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
541-73-1	**1,3-Dichlorobenzene**	**0.66**		ug/m³	0.55	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.43	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
106-46-7	**1,4-Dichlorobenzene**	**1.6**		ug/m³	0.55	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.66	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
78-93-3	**2-Butanone**	**17**	B	ug/m³	0.27	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS

Sample Information

Client Sample ID: IA-1 (Cellar) **York Sample ID:** 18J0064-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* **2-Hexanone**	**0.87**		ug/m³	0.75	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
108-10-1	**4-Methyl-2-pentanone**	**1.9**		ug/m³	0.38	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
67-64-1	**Acetone**	**130**		ug/m³	8.2	17.25	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/05/2018 12:00	10/05/2018 22:50	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.20	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
71-43-2	**Benzene**	**1.7**		ug/m³	0.29	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.48	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.62	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-25-2	Bromoform	ND		ug/m³	0.95	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
74-83-9	Bromomethane	ND		ug/m³	0.36	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-15-0	**Carbon disulfide**	**0.60**		ug/m³	0.29	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
56-23-5	**Carbon tetrachloride**	**0.75**		ug/m³	0.14	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.42	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-00-3	Chloroethane	ND		ug/m³	0.24	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
67-66-3	**Chloroform**	**0.94**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
74-87-3	**Chloromethane**	**1.5**		ug/m³	0.19	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
156-59-2	**cis-1,2-Dichloroethylene**	**0.18**		ug/m³	0.091	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.42	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
110-82-7	**Cyclohexane**	**1.1**		ug/m³	0.32	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.78	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-71-8	**Dichlorodifluoromethane**	**1.8**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
141-78-6	* **Ethyl acetate**	**2.5**		ug/m³	0.66	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS

Sample Information

Client Sample ID: **IA-1 (Cellar)** **York Sample ID:** **18J0064-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**9.2**		ug/m³	0.40	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
87-68-3	**Hexachlorobutadiene**	**1.8**		ug/m³	0.98	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
67-63-0	**Isopropanol**	**12**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
80-62-6	**Methyl Methacrylate**	**1.4**		ug/m³	0.38	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.33	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-09-2	**Methylene chloride**	**9.4**		ug/m³	0.64	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
142-82-5	**n-Heptane**	**12**		ug/m³	0.38	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
110-54-3	**n-Hexane**	**2.4**		ug/m³	0.32	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
95-47-6	**o-Xylene**	**11**		ug/m³	0.40	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
179601-23-1	**p- & m- Xylenes**	**36**		ug/m³	0.80	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
622-96-8	* **p-Ethyltoluene**	**9.6**		ug/m³	0.45	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
115-07-1	* **Propylene**	**2.1**		ug/m³	0.16	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
100-42-5	**Styrene**	**8.5**		ug/m³	0.39	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
127-18-4	**Tetrachloroethylene**	**2.5**		ug/m³	0.16	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
109-99-9	* **Tetrahydrofuran**	**0.65**		ug/m³	0.54	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 17:58	LDS
108-88-3	**Toluene**	**40**		ug/m³	0.35	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.36	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.42	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
79-01-6	**Trichloroethylene**	**2.8**		ug/m³	0.12	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.8**		ug/m³	0.52	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
108-05-4	Vinyl acetate	ND		ug/m³	0.32	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
593-60-2	Vinyl bromide	ND		ug/m³	0.40	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS
75-01-4	Vinyl Chloride	ND		ug/m³	0.059	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 17:58	LDS

Sample Information

Client Sample ID: **IA-1 (Cellar)** **York Sample ID:** **18J0064-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*		*70-130*						

Sample Information

Client Sample ID: **IA-2 (Main Hall)** **York Sample ID:** **18J0064-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.85	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 18:56	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.65	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.084	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.63	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
95-63-6	**1,2,4-Trimethylbenzene**	**13**		ug/m³	0.42	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
107-06-2	**1,2-Dichloroethane**	**0.55**		ug/m³	0.34	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS

Sample Information

Client Sample ID: **IA-2 (Main Hall)** **York Sample ID:** **18J0064-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
108-67-8	**1,3,5-Trimethylbenzene**	**4.9**		ug/m³	0.42	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.85	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 18:56	LDS
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
78-93-3	**2-Butanone**	**34**	B	ug/m³	0.25	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
591-78-6	*** 2-Hexanone**	**0.94**		ug/m³	0.70	0.85	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 18:56	LDS
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
108-10-1	**4-Methyl-2-pentanone**	**4.4**		ug/m³	0.35	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
67-64-1	**Acetone**	**160**		ug/m³	7.5	15.89	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/05/2018 12:00	10/05/2018 23:35	LDS
107-13-1	Acrylonitrile	ND		ug/m³	0.18	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
71-43-2	**Benzene**	**1.7**		ug/m³	0.27	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-27-4	Bromodichloromethane	ND		ug/m³	0.57	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-25-2	Bromoform	ND		ug/m³	0.88	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
74-83-9	Bromomethane	ND		ug/m³	0.33	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-15-0	**Carbon disulfide**	**1.4**		ug/m³	0.26	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
56-23-5	**Carbon tetrachloride**	**0.48**		ug/m³	0.13	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS
75-00-3	Chloroethane	ND		ug/m³	0.22	0.85	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 18:56	LDS

Sample Information

Client Sample ID: **IA-2 (Main Hall)** **York Sample ID:** **18J0064-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m³	0.42	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
74-87-3	**Chloromethane**	**1.0**		ug/m³	0.18	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.084	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.39	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-82-7	**Cyclohexane**	**1.5**		ug/m³	0.29	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.42	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
141-78-6	*** Ethyl acetate**	**3.1**		ug/m³	0.61	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications:			
100-41-4	**Ethyl Benzene**	**15**		ug/m³	0.37	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.91	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-63-0	**Isopropanol**	**13**		ug/m³	0.42	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
80-62-6	**Methyl Methacrylate**	**0.80**		ug/m³	0.35	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-09-2	**Methylene chloride**	**6.3**		ug/m³	0.59	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-82-5	**n-Heptane**	**22**		ug/m³	0.35	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
110-54-3	**n-Hexane**	**4.5**		ug/m³	0.30	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**16**		ug/m³	0.37	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**53**		ug/m³	0.74	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**10**		ug/m³	0.42	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications:			
115-07-1	*** Propylene**	**2.0**		ug/m³	0.15	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications:			
100-42-5	**Styrene**	**9.6**		ug/m³	0.36	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**3.6**		ug/m³	0.14	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**1.5**		ug/m³	0.50	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications:			

Sample Information

Client Sample ID: IA-2 (Main Hall) **York Sample ID:** 18J0064-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Indoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**93**		ug/m³	0.32	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.34	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.39	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	**Trichloroethylene**	**1.8**		ug/m³	0.11	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.5**		ug/m³	0.48	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.30	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.054	0.85	EPA TO-15	10/03/2018 09:00	10/03/2018 18:56	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*70-130*

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 18J0064-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Outdoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.63	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.50	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.63	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.71	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.50	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.37	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 18J0064-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Outdoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.091	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.68	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-63-6	**1,2,4-Trimethylbenzene**	**2.0**		ug/m³	0.45	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.71	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.55	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.37	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.43	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.64	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-67-8	**1,3,5-Trimethylbenzene**	**0.68**		ug/m³	0.45	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
106-99-0	1,3-Butadiene	ND		ug/m³	0.61	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.55	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.43	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.55	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
123-91-1	1,4-Dioxane	ND		ug/m³	0.66	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
78-93-3	**2-Butanone**	**4.5**	B	ug/m³	0.27	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
591-78-6	* 2-Hexanone	ND		ug/m³	0.75	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-10-1	**4-Methyl-2-pentanone**	**0.49**		ug/m³	0.38	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
67-64-1	**Acetone**	**18**	B	ug/m³	0.44	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
107-13-1	Acrylonitrile	ND		ug/m³	0.20	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
71-43-2	**Benzene**	**0.82**		ug/m³	0.29	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
100-44-7	Benzyl chloride	ND		ug/m³	0.48	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

Sample Information

Client Sample ID: **OA-1** **York Sample ID:** **18J0064-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Outdoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/m³	0.62	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
75-25-2	Bromoform	ND		ug/m³	0.95	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
74-83-9	Bromomethane	ND		ug/m³	0.36	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
75-15-0	Carbon disulfide	ND		ug/m³	0.29	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
56-23-5	**Carbon tetrachloride**	**0.46**		ug/m³	0.14	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
108-90-7	Chlorobenzene	ND		ug/m³	0.42	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
75-00-3	Chloroethane	ND		ug/m³	0.24	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
67-66-3	Chloroform	ND		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
74-87-3	Chloromethane	ND		ug/m³	0.19	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.091	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.42	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
110-82-7	**Cyclohexane**	**0.35**		ug/m³	0.32	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
124-48-1	Dibromochloromethane	ND		ug/m³	0.78	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
75-71-8	**Dichlorodifluoromethane**	**1.7**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
141-78-6	* **Ethyl acetate**	**1.5**		ug/m³	0.66	0.92	EPA TO-15 Certifications:	10/03/2018 09:00	10/03/2018 19:54	LDS
100-41-4	**Ethyl Benzene**	**2.0**		ug/m³	0.40	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.98	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
67-63-0	**Isopropanol**	**3.0**		ug/m³	0.45	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
80-62-6	Methyl Methacrylate	ND		ug/m³	0.38	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.33	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
75-09-2	**Methylene chloride**	**4.8**		ug/m³	0.64	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS
142-82-5	**n-Heptane**	**3.0**		ug/m³	0.38	0.92	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/03/2018 09:00	10/03/2018 19:54	LDS

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 18J0064-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J0064	893 Tibetan Community Center	Outdoor Ambient Air	September 29, 2018 9:50 am	10/02/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-54-3	**n-Hexane**	**1.1**		ug/m³	0.32	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
95-47-6	**o-Xylene**	**2.1**		ug/m³	0.40	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
179601-23-1	**p- & m- Xylenes**	**7.1**		ug/m³	0.80	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
622-96-8	*** p-Ethyltoluene**	**2.0**		ug/m³	0.45	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
115-07-1	*** Propylene**	**0.74**		ug/m³	0.16	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
100-42-5	**Styrene**	**0.90**		ug/m³	0.39	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
127-18-4	**Tetrachloroethylene**	**1.0**		ug/m³	0.16	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
109-99-9	*** Tetrahydrofuran**	**0.57**		ug/m³	0.54	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications:			
108-88-3	**Toluene**	**12**		ug/m³	0.35	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.36	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.42	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
79-01-6	Trichloroethylene	ND		ug/m³	0.12	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.52	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
108-05-4	Vinyl acetate	ND		ug/m³	0.32	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
593-60-2	Vinyl bromide	ND		ug/m³	0.40	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			
75-01-4	Vinyl Chloride	ND		ug/m³	0.059	0.92	EPA TO-15	10/03/2018 09:00	10/03/2018 19:54	LDS
							Certifications: NELAC-NY12058,NJDEP-Queens			

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.8 %*	*70-130*

Sample and Data Qualifiers Relating to This Work Order

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18J0064 64 PP

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: HAKS ENGINEERS	Company:	Company:
Address: 40 WALL STREET, 11TH Floor NY, NY, 10005	Address:	Address:
Phone: 212-747-1997	Phone:	Phone:
Contact: BASIT REHMAN	Contact:	Contact:
E-mail: brehman@haks.net	E-mail:	E-mail:

YOUR Project Number: 893

YOUR Project Name: TIBETAN COMMUNITY CENTER

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

BASIT REHMAN.

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IA - 1 (cellar)	9/29/18 9:50AM	AI	30	06	19530	5624	VOCs via EPA TO-15
IA - 2 (main hall)	9/29/18 9:50AM	AI	30	05	23802	5707	↓
OA - 1	9/29/18 9:50AM	AO	30	06	18312	6862	

Comments: 8-hr Sampling period for ALL.

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

6 Liter Canister	X
Tedlar Bag	

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
BASIT REHMAN / HAKS	9/29/18; 6:00PM	KBachmann	10/2/18 1015	KBachmann	10/3/18 9AM
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Secured Storage	10/3/18 9AM				
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				Sandberg	10/3/18 9AM

Technical Report

prepared for:

ATANE Consulting
36 River Street
Bridgeport CT, 06604
Attention: Raisat Quadir

Report Date: 01/31/2019
Client Project ID: 893 Tibetan Community Center
York Project (SDG) No.: 18J1146

Report Date: 01/31/2019
Client Project ID: 893 Tibetan Community Center
York Project (SDG) No.: 18J1146

ATANE Consulting
36 River Street
Bridgeport CT, 06604
Attention: Raisat Quadir

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 23, 2018 with a temperature of C. The project was identified as your project: **893 Tibetan Community Center**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18J1146-01	IA1 (Cellar)	Indoor Ambient Air	10/23/2018	10/23/2018
18J1146-02	IA2 (Main Hall)	Indoor Ambient Air	10/23/2018	10/23/2018
18J1146-03	OA1 (Outdoors)	Outdoor Ambient Ai	10/23/2018	10/23/2018

General Notes for York Project (SDG) No.: 18J1146

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 01/31/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: **IA1 (Cellar)** **York Sample ID:** **18J1146-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:38 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.54	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.43	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.54	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.60	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.43	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.32	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.078	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.59	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**5.5**		ug/m³	0.39	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.61	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.47	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	**1,2-Dichloroethane**	**0.51**		ug/m³	0.32	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.36	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.55	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**1.9**		ug/m³	0.39	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.52	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.47	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.36	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.47	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.57	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**8.4**		ug/m³	0.23	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA1 (Cellar) **York Sample ID:** 18J1146-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:38 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	0.65	0.7883	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 01:59	AS
107-05-1	3-Chloropropene	ND		ug/m³	1.2	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
108-10-1	**4-Methyl-2-pentanone**	**0.71**		ug/m³	0.32	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
67-64-1	**Acetone**	**68**		ug/m³	0.37	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
107-13-1	Acrylonitrile	ND		ug/m³	0.17	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
71-43-2	**Benzene**	**1.1**		ug/m³	0.25	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
100-44-7	Benzyl chloride	ND		ug/m³	0.41	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
75-27-4	Bromodichloromethane	ND		ug/m³	0.53	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
75-25-2	Bromoform	ND		ug/m³	0.81	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
74-83-9	Bromomethane	ND		ug/m³	0.31	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
75-15-0	Carbon disulfide	ND		ug/m³	0.25	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
56-23-5	**Carbon tetrachloride**	**0.50**		ug/m³	0.12	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
108-90-7	Chlorobenzene	ND		ug/m³	0.36	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
75-00-3	Chloroethane	ND		ug/m³	0.21	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
67-66-3	Chloroform	ND		ug/m³	0.38	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.16	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.078	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.36	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
110-82-7	**Cyclohexane**	**0.76**		ug/m³	0.27	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
124-48-1	Dibromochloromethane	ND		ug/m³	0.67	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.39	0.7883	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 01:59	AS
141-78-6	*** Ethyl acetate**	**1.4**		ug/m³	0.57	0.7883	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 01:59	AS

Sample Information

Client Sample ID: **IA1 (Cellar)** **York Sample ID:** **18J1146-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:38 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	**Ethyl Benzene**	**4.3**		ug/m³	0.34	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.84	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**7.1**		ug/m³	0.39	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**0.55**		ug/m³	0.32	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.28	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**5.8**		ug/m³	0.55	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**7.3**		ug/m³	0.32	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-54-3	**n-Hexane**	**1.3**		ug/m³	0.28	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**5.6**		ug/m³	0.34	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**18**		ug/m³	0.68	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**4.3**		ug/m³	0.39	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:			
115-07-1	*** Propylene**	**1.3**		ug/m³	0.14	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:			
100-42-5	**Styrene**	**5.7**		ug/m³	0.34	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**1.1**		ug/m³	0.13	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	*** Tetrahydrofuran**	**0.49**		ug/m³	0.46	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:			
108-88-3	**Toluene**	**46**		ug/m³	0.30	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.31	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.36	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	**Trichloroethylene**	**1.3**		ug/m³	0.11	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.6**		ug/m³	0.44	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.28	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.34	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.050	0.7883	EPA TO-15	10/25/2018 11:00	10/26/2018 01:59	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA1 (Cellar) **York Sample ID:** 18J1146-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:38 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.1 %*		*70-130*						

Sample Information

Client Sample ID: IA2 (Main Hall) **York Sample ID:** 18J1146-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:30 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.65	0.9531	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 02:58	AS
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.52	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.65	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.73	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.52	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.39	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.094	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.71	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
95-63-6	**1,2,4-Trimethylbenzene**	**11**		ug/m³	0.47	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.73	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.57	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.39	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.44	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS

Sample Information

Client Sample ID: **IA2 (Main Hall)** **York Sample ID:** **18J1146-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:30 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.67	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**4.2**		ug/m³	0.47	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.63	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.57	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.44	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:			
106-46-7	**1,4-Dichlorobenzene**	**0.92**		ug/m³	0.57	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.69	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**23**		ug/m³	0.28	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	*** 2-Hexanone**	**1.4**		ug/m³	0.78	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.5	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**1.8**		ug/m³	0.39	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**160**		ug/m³	8.5	17.87	EPA TO-15	10/26/2018 11:00	10/26/2018 21:28	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.21	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**1.9**		ug/m³	0.30	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.49	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-27-4	Bromodichloromethane	ND		ug/m³	0.64	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.99	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.37	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.30	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.48**		ug/m³	0.15	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.44	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.25	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: IA2 (Main Hall) **York Sample ID:** 18J1146-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:30 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m³	0.47	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
74-87-3	Chloromethane	ND		ug/m³	0.20	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.094	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.43	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
110-82-7	**Cyclohexane**	**3.8**		ug/m³	0.33	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
124-48-1	Dibromochloromethane	ND		ug/m³	0.81	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
75-71-8	**Dichlorodifluoromethane**	**1.5**		ug/m³	0.47	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
141-78-6	* **Ethyl acetate**	**2.8**		ug/m³	0.69	0.9531	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 02:58	AS
100-41-4	**Ethyl Benzene**	**13**		ug/m³	0.41	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.0	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
67-63-0	**Isopropanol**	**12**		ug/m³	0.47	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
80-62-6	**Methyl Methacrylate**	**0.90**		ug/m³	0.39	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.34	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
75-09-2	**Methylene chloride**	**8.3**		ug/m³	0.66	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
142-82-5	**n-Heptane**	**35**		ug/m³	0.39	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
110-54-3	**n-Hexane**	**3.3**		ug/m³	0.34	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
95-47-6	**o-Xylene**	**16**		ug/m³	0.41	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
179601-23-1	**p- & m- Xylenes**	**52**		ug/m³	0.83	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
622-96-8	* **p-Ethyltoluene**	**11**		ug/m³	0.47	0.9531	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 02:58	AS
115-07-1	* **Propylene**	**2.5**		ug/m³	0.16	0.9531	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 02:58	AS
100-42-5	**Styrene**	**10**		ug/m³	0.41	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
127-18-4	**Tetrachloroethylene**	**1.8**		ug/m³	0.16	0.9531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	10/25/2018 11:00	10/26/2018 02:58	AS
109-99-9	* **Tetrahydrofuran**	**1.7**		ug/m³	0.56	0.9531	EPA TO-15 Certifications:	10/25/2018 11:00	10/26/2018 02:58	AS

Sample Information

Client Sample ID: **IA2 (Main Hall)** **York Sample ID:** **18J1146-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Indoor Ambient Air	October 23, 2018 8:30 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**170**		ug/m³	0.36	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.38	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.43	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	**Trichloroethylene**	**0.82**		ug/m³	0.13	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.7**		ug/m³	0.54	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.34	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.42	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.061	0.9531	EPA TO-15	10/25/2018 11:00	10/26/2018 02:58	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*70-130*

Sample Information

Client Sample ID: **OA1 (Outdoors)** **York Sample ID:** **18J1146-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Outdoor Ambient Air	October 23, 2018 8:25 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.65	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **OA1 (Outdoors)** **York Sample ID:** **18J1146-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Outdoor Ambient Air	October 23, 2018 8:25 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.084	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.63	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-63-6	**1,2,4-Trimethylbenzene**	**1.4**		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-67-8	**1,3,5-Trimethylbenzene**	**0.42**		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
78-93-3	**2-Butanone**	**2.0**		ug/m³	0.25	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
591-78-6	* 2-Hexanone	ND		ug/m³	0.70	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-10-1	**4-Methyl-2-pentanone**	**0.45**		ug/m³	0.35	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-64-1	**Acetone**	**31**		ug/m³	0.40	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
107-13-1	Acrylonitrile	ND		ug/m³	0.18	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
71-43-2	**Benzene**	**0.79**		ug/m³	0.27	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **OA1 (Outdoors)** **York Sample ID:** **18J1146-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Outdoor Ambient Air	October 23, 2018 8:25 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/m³	0.57	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-25-2	Bromoform	ND		ug/m³	0.88	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-83-9	Bromomethane	ND		ug/m³	0.33	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-15-0	Carbon disulfide	ND		ug/m³	0.26	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
56-23-5	**Carbon tetrachloride**	**0.43**		ug/m³	0.13	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-00-3	Chloroethane	ND		ug/m³	0.22	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-66-3	Chloroform	ND		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
74-87-3	Chloromethane	ND		ug/m³	0.18	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.084	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.39	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
110-82-7	**Cyclohexane**	**0.59**		ug/m³	0.29	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-71-8	**Dichlorodifluoromethane**	**1.6**		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
141-78-6	* **Ethyl acetate**	**1.1**		ug/m³	0.61	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
100-41-4	**Ethyl Benzene**	**1.9**		ug/m³	0.37	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.91	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
67-63-0	**Isopropanol**	**3.0**		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
80-62-6	**Methyl Methacrylate**	**1.7**		ug/m³	0.35	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-09-2	**Methylene chloride**	**8.4**		ug/m³	0.59	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
142-82-5	**n-Heptane**	**4.5**		ug/m³	0.35	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

Sample Information

Client Sample ID: **OA1 (Outdoors)** **York Sample ID:** **18J1146-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18J1146	893 Tibetan Community Center	Outdoor Ambient Air	October 23, 2018 8:25 am	10/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-54-3	**n-Hexane**	**1.5**		ug/m³	0.30	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
95-47-6	**o-Xylene**	**2.2**		ug/m³	0.37	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
179601-23-1	**p- & m- Xylenes**	**7.7**		ug/m³	0.74	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
622-96-8	*** p-Ethyltoluene**	**1.5**		ug/m³	0.42	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
115-07-1	*** Propylene**	**0.78**		ug/m³	0.15	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
100-42-5	**Styrene**	**1.2**		ug/m³	0.36	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
127-18-4	**Tetrachloroethylene**	**0.87**		ug/m³	0.14	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:			
108-88-3	**Toluene**	**21**		ug/m³	0.32	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.34	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.39	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
79-01-6	Trichloroethylene	ND		ug/m³	0.11	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.48	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
108-05-4	Vinyl acetate	ND		ug/m³	0.30	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		
75-01-4	Vinyl Chloride	ND		ug/m³	0.054	0.8507	EPA TO-15	10/25/2018 11:00	10/26/2018 03:57	AS
							Certifications:	NELAC-NY12058,NJDEP-Queens		

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.9 %*	*70-130*

Sample and Data Qualifiers Relating to This Work Order

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to dectected analytes only.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No. 18J1146

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: HAKS Engineers	Company:	Company:	893	RUSH - Next Day
Address: 40 WALL STREET, 11th FLOOR, NY, NY 10005	Address:	Address:	YOUR Project Name: TIBETAN COMMUNITY CENTER	RUSH - Two Day
Phone: 212-747-1997	Phone:	Phone:		RUSH - Three Day
Contact: RIASAT QUADIR	Contact:	Contact:		RUSH - Four Day
E-mail: rquadir@atansconsulting.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

RIASAT QUADIR

Samples Collected by: (print your name above and sign below)

Air Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York	X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut		NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania		NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other		Other:			

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IA1 (cellar)	10-23 18 8:38am	AI	30	3	16691	7606	VOCs via EPA TO-15
IA2 (main hall)	10-23-18 8:30am	AI	30	8	18303	6870	↓
OA1 (outdoors)	10-23-18 8:45am	AO	29	6	~~18303~~ 25341	5707	↓

Comments: 8-hr sampling period for ALL EXCEPT IA1 (7 hrs)

Detection Limits Required: ≤ 1 ug/m³ ___ NYSDEC V1 Limits ___ Routine Survey ___ Other ___

Sampling Media: 6 Liter Canister X; Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
RIASAT QUADIR/HAKS	10-23-18 5:30pm				
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				Zhang York	10-24-18 1730

Technical Report

prepared for:

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 04/18/2025
Client Project ID: 240047 32-01 57th St Queens, NY
York Project (SDG) No.: 25C1814

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/18/2025
Client Project ID: 240047 32-01 57th St Queens, NY
York Project (SDG) No.: 25C1814

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 28, 2025 and listed below. The project was identified as your project: **240047 32-01 57th St Queens, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C1814-01	IA-1 20250328	Indoor Ambient Air	03/28/2025	03/28/2025
25C1814-02	IA-2 20250328	Indoor Ambient Air	03/28/2025	03/28/2025
25C1814-03	OA-1 20250328	Outdoor Ambient Ai	03/28/2025	03/28/2025

General Notes for York Project (SDG) No.: 25C1814

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 04/18/2025

Sample Information

Client Sample ID: IA-1 20250328 **York Sample ID:** 25C1814-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.62	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.49	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.62	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.69	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.49	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.36	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.089	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.67	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.69	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.36	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.42	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.63	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**0.53**		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.60	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.42	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.65	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.21	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:			
78-93-3	**2-Butanone**	**18**		ug/m³	0.27	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: IA-1 20250328 **York Sample ID:** 25C1814-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	0.74	0.9	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 22:40	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
108-10-1	**4-Methyl-2-pentanone**	**7.2**		ug/m³	0.37	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
67-64-1	**Acetone**	**52**		ug/m³	1.7	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
107-13-1	Acrylonitrile	ND		ug/m³	2.5	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
71-43-2	**Benzene**	**1.6**		ug/m³	0.29	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.47	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.60	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-25-2	Bromoform	ND		ug/m³	0.93	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
74-83-9	Bromomethane	ND		ug/m³	0.35	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
56-23-5	**Carbon tetrachloride**	**0.34**		ug/m³	0.14	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.41	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-00-3	Chloroethane	ND		ug/m³	0.24	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
67-66-3	Chloroform	ND		ug/m³	0.44	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.19	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.089	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.41	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
110-82-7	**Cyclohexane**	**0.37**		ug/m³	0.31	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.77	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-71-8	**Dichlorodifluoromethane**	**2.5**		ug/m³	0.45	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
141-78-6	*** Ethyl acetate**	**19**		ug/m³	0.65	0.9	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 22:40	YR
100-41-4	**Ethyl Benzene**	**5.8**		ug/m³	0.39	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR

Sample Information

Client Sample ID: IA-1 20250328 **York Sample ID:** 25C1814-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.96	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
67-63-0	**Isopropanol**	**9.7**		ug/m³	1.3	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.37	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.32	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-09-2	Methylene chloride	ND		ug/m³	1.9	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
91-20-3	* Naphthalene	ND		ug/m³	0.94	0.9	EPA TO-15 Certifications: NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
142-82-5	**n-Heptane**	**2.8**		ug/m³	0.37	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
110-54-3	**n-Hexane**	**1.3**		ug/m³	0.32	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
95-47-6	**o-Xylene**	**5.5**		ug/m³	0.39	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
179601-23-1	**p- & m- Xylenes**	**21**		ug/m³	0.78	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
622-96-8	*** p-Ethyltoluene**	**1.2**		ug/m³	0.44	0.9	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 22:40	YR
115-07-1	* Propylene	ND		ug/m³	0.15	0.9	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 22:40	YR
100-42-5	Styrene	ND		ug/m³	0.38	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
127-18-4	**Tetrachloroethylene**	**0.79**		ug/m³	0.61	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.53	0.9	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 22:40	YR
108-88-3	**Toluene**	**24**		ug/m³	0.34	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.36	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.41	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
79-01-6	**Trichloroethylene**	**0.24**		ug/m³	0.12	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.51	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.32	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.9	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 22:40	YR

Sample Information

Client Sample ID: IA-1 20250328 **York Sample ID:** 25C1814-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: IA-2 20250328 **York Sample ID:** 25C1814-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.65	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.63	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**1.8**		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**0.71**		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: IA-2 20250328 **York Sample ID:** 25C1814-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.20	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
78-93-3	**2-Butanone**	**37**		ug/m³	0.25	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.70	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
108-10-1	**4-Methyl-2-pentanone**	**16**		ug/m³	0.35	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
67-64-1	**Acetone**	**85**		ug/m³	1.6	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
107-13-1	Acrylonitrile	ND		ug/m³	2.4	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
71-43-2	**Benzene**	**1.2**		ug/m³	0.27	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.57	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
75-25-2	Bromoform	ND		ug/m³	0.88	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
74-83-9	**Bromomethane**	**0.56**		ug/m³	0.33	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.27	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
56-23-5	**Carbon tetrachloride**	**0.37**		ug/m³	0.13	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
75-00-3	Chloroethane	ND		ug/m³	0.22	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
67-66-3	Chloroform	ND		ug/m³	0.42	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.18	0.851	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/17/2025 23:44	YR

Sample Information

Client Sample ID: IA-2 20250328 **York Sample ID:** 25C1814-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
110-82-7	**Cyclohexane**	**0.47**		ug/m³	0.29	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
75-71-8	**Dichlorodifluoromethane**	**2.4**		ug/m³	0.42	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
141-78-6	*** Ethyl acetate**	**13**		ug/m³	0.61	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
100-41-4	**Ethyl Benzene**	**14**		ug/m³	0.37	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.91	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
67-63-0	**Isopropanol**	**9.8**		ug/m³	1.3	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.35	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
75-09-2	Methylene chloride	ND		ug/m³	1.8	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
91-20-3	* Naphthalene	ND		ug/m³	0.89	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NJDEP-NY037	04/17/2025 23:44	YR
142-82-5	**n-Heptane**	**4.6**		ug/m³	0.35	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
110-54-3	**n-Hexane**	**1.7**		ug/m³	0.30	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
95-47-6	**o-Xylene**	**12**		ug/m³	0.37	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
179601-23-1	**p- & m- Xylenes**	**44**		ug/m³	0.74	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
622-96-8	*** p-Ethyltoluene**	**1.6**		ug/m³	0.42	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
115-07-1	* Propylene	ND		ug/m³	0.15	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
100-42-5	Styrene	ND		ug/m³	0.36	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	0.58	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.851	EPA TO-15 Certifications:	04/17/2025 07:45	04/17/2025 23:44	YR
108-88-3	**Toluene**	**38**		ug/m³	0.32	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR

Sample Information

Client Sample ID: IA-2 20250328 **York Sample ID:** 25C1814-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.34	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
79-01-6	**Trichloroethylene**	**0.14**		ug/m³	0.11	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.48	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.30	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.851	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/17/2025 23:44	YR

Sample Information

Client Sample ID: OA-1 20250328 **York Sample ID:** 25C1814-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.74	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.59	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.74	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.83	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.59	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.44	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.11	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.80	1.084	EPA TO-15 Certifications:	04/17/2025 07:45 NELAC-NY12058,NJDEP-NY037	04/18/2025 00:49	YR

Sample Information

Client Sample ID: OA-1 20250328 **York Sample ID:** 25C1814-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.53	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.83	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.44	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.50	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.76	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.53	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
106-99-0	1,3-Butadiene	ND		ug/m³	0.72	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.50	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
123-91-1	1,4-Dioxane	ND		ug/m³	0.78	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.25	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR
78-93-3	**2-Butanone**	**12**		ug/m³	0.32	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.89	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.7	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
108-10-1	**4-Methyl-2-pentanone**	**2.8**		ug/m³	0.44	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
67-64-1	**Acetone**	**21**		ug/m³	2.1	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
107-13-1	Acrylonitrile	ND		ug/m³	3.1	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
71-43-2	**Benzene**	**0.66**		ug/m³	0.35	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.56	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.73	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR
75-25-2	Bromoform	ND		ug/m³	1.1	1.084	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	04/17/2025 07:45	04/18/2025 00:49	YR

Sample Information

Client Sample ID: OA-1 20250328 **York Sample ID:** 25C1814-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/m³	0.42	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
75-15-0	Carbon disulfide	ND		ug/m³	0.34	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
56-23-5	**Carbon tetrachloride**	**0.34**		ug/m³	0.17	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
108-90-7	Chlorobenzene	ND		ug/m³	0.50	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
75-00-3	Chloroethane	ND		ug/m³	0.29	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
67-66-3	Chloroform	ND		ug/m³	0.53	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
74-87-3	**Chloromethane**	**1.3**		ug/m³	0.22	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.11	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.49	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
110-82-7	Cyclohexane	ND		ug/m³	0.37	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
124-48-1	Dibromochloromethane	ND		ug/m³	0.92	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
75-71-8	**Dichlorodifluoromethane**	**2.4**		ug/m³	0.54	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
141-78-6	*** Ethyl acetate**	**5.5**		ug/m³	0.78	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR
100-41-4	**Ethyl Benzene**	**3.4**		ug/m³	0.47	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
67-63-0	**Isopropanol**	**4.7**		ug/m³	1.6	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
80-62-6	Methyl Methacrylate	ND		ug/m³	0.44	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.39	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
75-09-2	Methylene chloride	ND		ug/m³	2.3	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
91-20-3	* Naphthalene	ND		ug/m³	1.1	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NJDEP-NY037
142-82-5	**n-Heptane**	**0.80**		ug/m³	0.44	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
110-54-3	**n-Hexane**	**0.57**		ug/m³	0.38	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037
95-47-6	**o-Xylene**	**3.3**		ug/m³	0.47	1.084	EPA TO-15 Certifications:	04/17/2025 07:45	04/18/2025 00:49	YR NELAC-NY12058,NJDEP-NY037

Sample Information

Client Sample ID: OA-1 20250328 **York Sample ID:** 25C1814-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	**p- & m- Xylenes**	**12**		ug/m³	0.94	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.53	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.19	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.46	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.74	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.64	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications:			
108-88-3	**Toluene**	**7.2**		ug/m³	0.41	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.43	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.49	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
79-01-6	Trichloroethylene	ND		ug/m³	0.15	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.61	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.38	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.47	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND		ug/m³	0.14	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
							Certifications: NELAC-NY12058,NJDEP-NY037			

Analytical Batch Summary

Batch ID: BD51311 **Preparation Method:** EPA TO15 PREP **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
25C1814-01	IA-1 20250328	04/17/25
25C1814-02	IA-2 20250328	04/17/25
25C1814-03	OA-1 20250328	04/17/25
BD51311-BLK1	Blank	04/17/25
BD51311-BS1	LCS	04/17/25

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD51311 - EPA TO15 PREP											
Blank (BD51311-BLK1)											Prepared & Analyzed: 04/17/2025
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2,2,4-Trimethylpentane	ND	0.23	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	1.9	"								
Acrylonitrile	ND	2.8	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	1.5	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD51311 - EPA TO15 PREP											
Blank (BD51311-BLK1)											Prepared & Analyzed: 04/17/2025
Methylene chloride	ND	2.1	ug/m³								
Naphthalene	ND	1.0	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
LCS (BD51311-BS1)											Prepared & Analyzed: 04/17/2025
1,1,1,2-Tetrachloroethane	9.46		ppbv	10.0		94.6	70-130				
1,1,1-Trichloroethane	10.4		"	10.0		104	70-130				
1,1,2,2-Tetrachloroethane	9.72		"	10.0		97.2	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3		"	10.0		103	70-130				
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130				
1,1-Dichloroethane	10.0		"	10.0		100	70-130				
1,1-Dichloroethylene	10.2		"	10.0		102	70-130				
1,2,4-Trichlorobenzene	9.20		"	10.0		92.0	70-130				
1,2,4-Trimethylbenzene	9.88		"	10.0		98.8	70-130				
1,2-Dibromoethane	10.1		"	10.0		101	70-130				
1,2-Dichlorobenzene	9.54		"	10.0		95.4	70-130				
1,2-Dichloroethane	10.2		"	10.0		102	70-130				
1,2-Dichloropropane	9.61		"	10.0		96.1	70-130				
1,2-Dichlorotetrafluoroethane	10.8		"	10.0		108	70-130				
1,3,5-Trimethylbenzene	10.1		"	10.0		101	70-130				
1,3-Butadiene	10.4		"	10.0		104	70-130				
1,3-Dichlorobenzene	10.2		"	10.0		102	70-130				
1,3-Dichloropropane	9.54		"	10.0		95.4	70-130				
1,4-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,4-Dioxane	10.0		"	10.0		100	70-130				
2,2,4-Trimethylpentane	10.1		"	10.0		101	70-130				
2-Butanone	9.31		"	10.0		93.1	70-130				
2-Hexanone	9.73		"	10.0		97.3	70-130				
3-Chloropropene	8.62		"	10.0		86.2	70-130				
4-Methyl-2-pentanone	9.43		"	10.0		94.3	70-130				
Acetone	8.85		"	10.0		88.5	70-130				
Acrylonitrile	9.50		"	10.0		95.0	70-130				
Benzene	10.0		"	10.0		100	70-130				
Benzyl chloride	10.8		"	10.0		108	70-130				
Bromodichloromethane	9.70		"	10.0		97.0	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD51311 - EPA TO15 PREP											
LCS (BD51311-BS1)								Prepared & Analyzed: 04/17/2025			
Bromoform	10.6		ppbv	10.0		106	70-130				
Bromomethane	10.0		"	10.0		100	70-130				
Carbon disulfide	9.57		"	10.0		95.7	70-130				
Carbon tetrachloride	8.29		"	10.0		82.9	70-130				
Chlorobenzene	9.99		"	10.0		99.9	70-130				
Chloroethane	9.71		"	10.0		97.1	70-130				
Chloroform	10.1		"	10.0		101	70-130				
Chloromethane	9.90		"	10.0		99.0	70-130				
cis-1,2-Dichloroethylene	9.62		"	10.0		96.2	70-130				
cis-1,3-Dichloropropylene	9.19		"	10.0		91.9	70-130				
Cyclohexane	9.58		"	10.0		95.8	70-130				
Dibromochloromethane	9.81		"	10.0		98.1	70-130				
Dichlorodifluoromethane	10.7		"	10.0		107	70-130				
Ethyl acetate	9.46		"	10.0		94.6	70-130				
Ethyl Benzene	9.68		"	10.0		96.8	70-130				
Hexachlorobutadiene	8.01		"	10.0		80.1	70-130				
Isopropanol	8.97		"	10.0		89.7	70-130				
Methyl Methacrylate	9.35		"	10.0		93.5	70-130				
Methyl tert-butyl ether (MTBE)	10.0		"	10.0		100	70-130				
Methylene chloride	10.2		"	10.0		102	70-130				
Naphthalene	8.54		"	10.0		85.4	70-130				
n-Heptane	9.63		"	10.0		96.3	70-130				
n-Hexane	9.66		"	10.0		96.6	70-130				
o-Xylene	9.72		"	10.0		97.2	70-130				
p- & m- Xylenes	20.2		"	20.0		101	70-130				
p-Ethyltoluene	10.3		"	10.0		103	70-130				
Propylene	9.63		"	10.0		96.3	70-130				
Styrene	9.82		"	10.0		98.2	70-130				
Tetrachloroethylene	9.74		"	10.0		97.4	70-130				
Tetrahydrofuran	9.81		"	10.0		98.1	70-130				
Toluene	9.10		"	10.0		91.0	70-130				
trans-1,2-Dichloroethylene	10.3		"	10.0		103	70-130				
trans-1,3-Dichloropropylene	9.49		"	10.0		94.9	70-130				
Trichloroethylene	9.38		"	10.0		93.8	70-130				
Trichlorofluoromethane (Freon 11)	10.3		"	10.0		103	70-130				
Vinyl acetate	6.90		"	10.0		69.0	70-130	Low Bias			
Vinyl bromide	10.7		"	10.0		107	70-130				
Vinyl Chloride	10.7		"	10.0		107	70-130				

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.

TO-CCV The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com | www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 25C1814

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Hydrotech Env Eng Geol PC	Company: SAME	Company: SAME	240047	RUSH - Next Day
Address: 231 W 29th St New York NY	Address:	Address:	YOUR Project Name: 32-01 57th St Queens NY	RUSH - Two Day
Phone: 631 241 7165	Phone.:	Phone.:		RUSH - Three Day
Contact: Paul Mathi	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 53167	Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Donavan Edwards / Donavan Edwards

Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
AI - Indoor Ambient Air	New York ✓	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
AO - Outdoor Amb. Air	New Jersey	QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS	
AS - Soil Vapor/Sub-Slab	Pennsylvania	NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
	Other	Other:			

Certified Canisters: Batch ✓ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ✓ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IA-1 20250328	3/28/25 3:28	AI	-30	-8	02307	00686	EPA TO-15
IA-2	3:30	AI	-30	-9	02311	00475	
OA-1	3:26	AO	-30	-9	02476	00430	

Comments: Sampling for 8 hrs.

Detection Limits Required
≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ~~0.2~~ 1 ug/m³

Sampling Media
6 Liter Canister ✓
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Donavan Edwards	3/28 16:52	A. Husain 3/28/25 16:52		A. Husain 3/28/25	17:55
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				MA 3/28/25	17:55

APPENDIX 10

DUSR for ON-SITE AMBIENT AIR SAMPLES

AMXconsult, LLC

AMXconsult, LLC
155 Birch Road
Storrs, CT 06268
Tel: +1-860-942-2881

May 10, 2025

Paul Matli, PhD, PG
Vice President
Hydrotech Environmental
231 West 29th Street, Suite 1104
New York, New York 10001
pmatli@hydrotechenvironmental.com

RE: DUSR - 32-01 57th St Queens, NY - Proj.#: 240047

Dear Mr. Matli:

AMXconsult, LLC (AMX) is pleased to submit this Data Usability Summary Report (DUSR) and Quality Assurance Validation for the subject project (32-01 57th St Queens, NY). The data validation was performed under Category B guidelines.

An overall assessment of the data package provided by the laboratory for SDG# 25C1814 indicates acceptable laboratory performances of the required analytical testing method. All samples were successfully analyzed for all target compounds in accordance with the Quality Assurance/Quality Control (QA/QC) requirements for the USEPA analytical testing method used. With respect to data usability and completeness, no significant issues for the sample group were identified with respect to biases identified during data validation. Refer to the Data Validation Assessment section (Page 13) for the technical evaluation that supports the Data Usability Assessment (DUA). Minor impacts on data usability have been noted.

Sincerely,

M. Amine Dahmani, Ph.D.
Principal

DATA USABILITY SUMMARY REPORT

For:

Hydrotech Environmental
231 West 29th Street, Suite 1104
New York, New York 10001

York Laboratory SDG#
25C1814

Project Location: 32-01 57th St Queens, NY
HydroTech Project #: 240047

By:

Amine Dahmani, Ph.D.
Principal

May 10, 2025

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Appendix A: Data Validation Assessment Support Files

Appendix B: York Analytical NY ASP Category B Data Deliverable Package

LIST OF ACRONYMS

This is a comprehensive list of acronyms used for Organic and Inorganic Data Validation. Some of the acronyms and terms were used in this report, as appropriate.

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene (volatile instrument performance check)
BNA	Base/Neutral/Acid
CARD	CLP Analytical Results Database
CCB	Continuing Calibration Blank
CCCs	Calibration Check Compounds
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CLP	Contract Laboratory Program
CN	Cyanide
COC	Chain of Custody
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
CV	Cold Vapor
%D	Percent Difference
DAS	Delivery of Analytical Services
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl (Pesticide/PCB/ surrogate compound)
DFTPP	Decafluorotriphenylphosphine (semivolatile instrument performance check)
DSF	Data Summary Form
DVA	Data Validation Assessment
ECD	Electron-Capture Detector
EICP	Extended Ion Current Profile
EPA	United States Environmental Protection Agency
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas Chromatography
GC/EC	Gas Chromatography/Electron Capture
GC/MS	Gas Chromatography/Mass Spectra

GPC Gel Permeation Chromatography (Clean Up)
ICAL Initial Calibration
ICB Initial Calibration Blank
ICP Inductively Coupled Plasma
ICS Interference Check Sample
ICV Initial Calibration Verification
IDL Instrument Detection Limit
IRDA Inorganic Regional Data Assessment
IS Internal Standard
LCS Laboratory Control Sample
LCL Lower Control Limit
MCL Maximum Contamination Level
MDL Method Detection Limit
MS/MSD Matrix Spike/Matrix Spike Duplicate
m/z The ratio of mass (m) to charge (z) of ions measured by GC/MS OADS
Organic Analysis Data Sheet (Form 1)
ORDA Organic Regional Data Assessment
PB Preparation Blank
PCB Poly Chlorinated Biphenyl
PEM Performance Evaluation Mixture
PFAS Polyfluorinated Alkyl Substances (PFAS analytes are listed below)
PRP Potential Responsible Party
QA/QC Quality Assurance/Quality Control
QAPjP Quality Assurance Project Plan
QC Quality Control
%R Percent Recovery of spiked amount
RAS Routine Analytical Services
RF Response Factor
RIC Reconstructed Ion Chromatogram
RPD Relative Percent Difference
RRF Relative Response Factor
RSD Relative Standard Deviation
RT Retention Time
RTW Retention Time Window
SDG Sample Delivery Group
SMC System Monitoring Compound
SMO Sample Management Office
SOP Standard Operation Procedures
SOW Statement of Work
SPCCs System Performance Check Compounds
SSL Samples Shipping Log
SVOA Semi-volatile Organic Analyte

TAL	Target Analyte List
TCL	Target Compound List
TCX	Tetrachloro-m-Xylene (Pesticide/PCB surrogate compound)
TIC	Tentatively Identified Compound
TPH	Total Petroleum Hydrocarbons
TR	Traffic Report
UCL	Upper Control Limit
VOA	Volatile Organic Analyte
VTSR	Validated Time of Sample Receipt

LIST OF TERMS

Associated Samples: Any sample related to a particular QC analysis.

Case: A finite, usually predetermined number of samples collected over a given time period for a particular site. A Case consists of one or more Sample Delivery Group(s).

Continuing Calibration Blank (CCB): A deionized water sample run every ten (10) samples designed to detect any carryover contamination.

Continuing Calibration Verification (CCV): A deionized water sample run every ten (10) samples designed to detect any carryover contamination.

Contract Compliance Screening (CCS): A process in which the SMO inspects the data for contractual compliance and provides EMSL-LV laboratories and the Regions with their findings.

Contractual Holding Time: The time from VTSR (validated time of sample receipt) to laboratory extraction and /or analysis

Data Validation Qualifier (DVQ): This refers to the column on the data summary form in which EPA Region III and other qualifiers have been placed by the data validator.

Data Validation Result (DVR): This refers to the column on the data summary form used to report results that have been modified by the data validator. A result in the DVR column that is qualified "U" indicates a modification of the reporting limit.

Field Blank Field blanks are intended to identify contaminants that may have been introduced in the field. Examples are rinsate blank (RB), field blanks (FB) and trip blank (TB).

Field Duplicate: A duplicate sample generated in the field; not in the laboratory.

Initial Calibration (ICAL): The establishment of a calibration curve with the appropriate number of standards and concentration ranges. The calibration curve plots absorbances and/or emissions versus concentration of the standards.

Initial Calibration Blank (ICB): First blank run after the calibration curve.

Initial Calibration Verification (ICV): First standard run after the calibration curve.

Matrix Spike/Matrix Spike Duplicate (MS/MSD): Introduction of a known concentration of a compound into a sample to provide information about the effect of sample matrix on the extraction and/or measurement methodology.

Post Digestion Spike: The addition of known amount of standard after digestion. (Also identified as analytical spike, or spike, for furnace analyses).

Preparation Blank (PB): Blank taken through the digestion process to detect internal laboratory contamination.

Performance Evaluation Mixture: A standard used to verify that the ICAL sequence is stable throughout the GC or GC/MS analyses.

Sample Delivery Group (SDG): Defined by one of the following, whichever occurs first:
- case of sample
- each twenty field samples in a case or
- each 14-day calendar period during which field samples in a case are received, beginning with the receipt of the first sample in the SDG.

Serial Dilution: A sample run at a specific dilution to determine whether any significant chemical or physical interferences exist due to sample matrix effect, for ICP only.

Technical Holding Time: The time from sample collection to laboratory extraction and /or analysis.

LIST OF VALIDATION QUALIFIERS

The qualifiers are listed in the QA/QC Reviews for USEPA Region II. They were used in this data usability summary report (DUSR). The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

U	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	Not detected, quantitation limit may be inaccurate or imprecise.

1.0 DATA USABILITY AND VALIDATION PARAMETERS, SOPs

NYSDEC DATA USABILITY SUMMARY PARAMETERS

The parameters listed below were used for the data usability summary report (DUSR) evaluation.

- Samples Handling
- Data Validation References
- Laboratory Data Packages
- Laboratory Analytical Methods
- Data Usability Assessment Summary

DATA VALIDATION SUMMARY PARAMETERS

The parameters listed below were used for data validation evaluation:

- Data Completeness
- Sample Holding Times
- Chromatographic Criteria
- Gas Chromatography/Mass Spectrometry (GC/MS) Tuning and Mass Calibration
- Initial and Continuing Calibration Verifications (ICV and CCV)
- Method Blank Verification (BLK)
- Surrogate Recoveries (SR)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards/Labeled Compounds (IS)
- Laboratory and Field duplicates (DUP)
- Quantitation Limits and Data Assessment
- ICP Interference Check Sample results
- ICP Serial Dilution results
- ICP CRDL Standard
- Post Digestion Spike Analysis
- Target Analyte Identification
- Target Analyte Quantitation

DATA VALIDATION STANDARD OPERATING PROCEDURES (SOPs)

Region 2 Quality Assurance Guidance and Standard Operating Procedures:

Inorganics Validation SOPs

SOP #	Description	Date
SOP HW-3a ICP-AES Rev1 w/CRF	CLP ISM02.2 ICP-AES	September 2016
SOP HW-3b ICP-MS Rev1 w/CRF	CLP ISM02.2 ICP-MS	September 2016
SOP HW-3c Hg & CN Rev1 w/CRF	CLP ISM02.2 Mercury and Cyanide	September 2016

Organics Validation SOPs - CLP

SOP #	Description	Date
SOP QA-HWSS-A-004	EPA CLP Method SFAM01.1 for Volatiles	March 2022
SOP HW-33A Low Medium VOA Rev 1 w/CRF	EPA CLP Method SOM02.2 for Low/Medium VOA	September 2016
SOP HW-34A Trace VOA Rev1 w/CRF	EPA CLP Method SOM02.2 for Trace VOA	September 2016
SOP HW-35A Rev1 w/CRF	EPA CLP Method SOM02.2 for Semi-Volatiles	September 2016
SOP HW-36A Rev 1 w/CRF	EPA CLP Method SOM02.2 for Pesticides	October 2016
SOP HW-37A Rev 0 w/CRF	EPA CLP Method SOM02.2 for PCBs Aroclor	June 2015

Organics Validation SOPs – Other

SOP #	Description	Date
SOP HW-11 Rev 3	SW-846 Method 8280 for Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans	December 2010
SOP HW-16 Rev. 2.1	SW-846 Method 8330A Nitroaromatics and Nitroamines by HPLC	December 2010
SOP HW-17 Rev.3.1	SW-846 Method 8151A for Chlorinated Herbicides by GC	December 2010
SOP HW-19 Rev. 1.1	SW-846 Method 8290 for Polychlorinated dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by HRMS	December 2010

SOP HW-22 Rev. 5	SW-846 Method 8270D for Semi-Volatile Organic Compounds by GC/MS	December 2010
SOP HW-25 Rev. 3	EPA Method 1613, Revision B Tetra-through Octa-chlorinated Dioxins and Furans by Isotope Dilution by HRGC/HRMS	December 2010
SOP HWSS 24 Rev. 4	SW-846 Methods 8260B & 8260C for VOCs by GC/MS	October 2014
SOP HW-29 Rev. 2	EPA Method 524.2 for Purgeable Organic Compounds in Water by GC/MS	November 2010
SOP HW-31 Rev. 6	TO-15 Air Analysis for VOCs	June 2014
SOP HW-44 Rev. 1.1	SW-846 Method 8081B for Pesticide Compounds Organochlorine Pesticides by GC	December 2010
SOP HW-46 Rev. 1	EPA Method 1668 A for Chlorinated Biphenyl Congeners and EPA Non-RAS CBC01.0	September 2008
SOP HW-55 Rev. 2 w/CRF	EPA Non-RAS DLM02.0 for Tetra -through Octa-Chlorinated Dioxins and Furans by Isotope Dilution	December 2008

2.0 DATA VALIDATION REPORT NARRATIVE

2.1 NYSDEC DATA USABILITY SUMMARY REPORT – (SDG# 25C1814)

Site Location: 32-01 57th St Queens, NY

Data Validation for Analytical Methods: Volatile Organics in Air (TO-15)
Analytical Laboratory: YORK Analytical Laboratories
Number of Samples & Matrices: 3 Air samples
Sampling Date: 03/28/2025
Laboratory SDG#: 25C1814
Data Validation Reviewer: Amine Dahmani, Ph.D.
Data Validation completed on: 05/09/2025

SAMPLE HANDLING

Based on the Chain of Custody (COC), the samples listed below were received on 03/28/2025 at 17:55. No compromised canisters or other issues were noted. The appropriate sample containers were used, consistent with the Sample Integrity and Preservation sections of the USEPA analytical methods mentioned above.

The COC includes an acceptable record of site location, client and project information, field sampling information (sampler, sample collection date and time), sample identification and matrix, preservation, required analysis, deliverables, turnaround time, regulatory comparison and sample custody management.

Laboratory Sample Identification	Client Sample Identification
25C1814-01	IA-1 20250328
25C1814-02	IA-2 20250328
25C1814-03	OA-1 20250328

DATA VALIDATION REFERENCES

The organic data validation was conducted in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA 540-R-2017-002; January 2017), the USEPA Region II SOP HW-6-CLP Organics Data Review and Preliminary Review, the September 2016 SOP HW-31 Rev. 6 (TO-15 Air Analysis for VOCs), and the method and QC Criteria specified in NYSDEC ASP Documents.

LABORATORY DATA PACKAGE

The laboratory data package for SDG# 25C1814 is satisfactory with respect to pagination, quality control narratives and completeness. The package included the laboratory quality assurance summary report, quality control summary data, sample non-conformance summaries, the data package forms and tables in accordance with the NYSDEC ASP B deliverable requirements. The instrument tuning information, sample analysis batch and all associated standard, quality control and sample raw data were provided.

LABORATORY ANALYTICAL METHODS

The quality assurance criteria listed in the laboratory data package indicate with a high degree of certainty the laboratory's compliance with procedures set forth in the USEPA Method TO-15 for the analyses requested in the chain of custody. No deviation from the methods were noted.

DATA USABILITY ASSESSMENT SUMMARY

An overall assessment of the data package provided by the laboratory for SDG# 25C1814 indicates acceptable laboratory performances of the required analytical testing method. All samples were successfully analyzed for all target compounds in accordance with the Quality Assurance/Quality Control (QA/QC) requirements for the USEPA analytical testing method used. With respect to data usability and completeness, no significant issues for the sample group were identified with respect to biases identified during data validation. Refer to the Data Validation Assessment section for the technical evaluation that supports the Data Usability Assessment (DUA) presented in the table below. Minor impacts on data usability have been noted.

Volatile Organic Compounds in Air – EPA TO-15 Method

	Data Usability Assessment *(Refer to the Data Validation Assessment (DVA) of the specific method for technical arguments)*	**DVA Reference**
1	Samples 25C1814-01, -02, -03: Vinyl acetate was not detected in these samples. The Vinyl acetate results should be qualified Estimated (UJ).	**CCV**
2	Samples 25C1814-01, -02, -03: Vinyl acetate was not detected in these samples. The Vinyl acetate results should be qualified Estimated (UJ) because of the LCS low bias for this compound.	**LCS**

2.2 DATA VALIDATION ASSESSMENT (SDG# 25C1814)

1) VOLATILE ORGANIC IN AIR

Site Location: 32-01 57th St Queens, NY
Data Validation for Analytical Methods: Volatile Organics in Air (TO-15)
Number of Samples & Matrices: 3 Air samples
Sampling Date: 03/28/2025
Laboratory SDG#: 25C1814
Data Validation Reviewer: Amine Dahmani, Ph.D.
Data Validation completed on: 05/09/2025

DATA COMPLETENESS

The data deliverable package is considered complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

HOLDING TIME

No Holding Time exceedances were noted. The samples were analyzed within the method holding times as recommended by USEPA Method TO-15.

CHROMATOGRAPHIC CRITERIA

The laboratory data package, including standards, quality control samples and field sample analyses raw data (data reduction and chromatograms), shows compliance with the chromatographic criteria set forth in USEPA Method TO-15.

TARGET ANALYTE IDENTIFICATION

Target compounds, internal standards and surrogates were checked and found to be within the gas chromatograph/mass spectrometry (GCMS) method quantitation limits and in accordance with USEPA Method TO-15 for mass spectra identification and quantification.

GC/MS TUNING AND MASS CALIBRATION

The standard tuning criteria were within control limits as outlined in the USEPA Method TO-15.

INITIAL CALIBRATION VERIFICATION (ICV)

The laboratory data of the initial calibration standards have been evaluated for compliance with the method criteria for Relative Response Factors (RRFs) and Percent Relative Standard Deviations (%RSDs). The method calibration criteria are as follows:

- Average RRFs must be greater than the required values and at least greater than 0.010 for the compounds exhibiting poor response and 0.050 for all other volatile compounds.
- %RSD must be less than 30% (40% for poor response compounds)

The evaluation of the data indicates the following:

For the initial calibration reference (SC50042 on 03/27/2025) the average RRFs, %RSDs for the reported target compounds were in compliance with the method calibration criteria.

Quality Assessment: No action required.

CONTINUING CALIBRATION VERIFICATION

The laboratory data of the continuing calibration standards have been evaluated for compliance with the method criteria for required frequency, Relative Response Factor (RRFs) and Percent Difference (%Ds). The evaluation of the data indicates the following:

The continuing calibration reference samples S5D1718-CCV1, analyzed on 04/17/2025, met the required criteria for Relative Response Factor (RRFs) and Percent Difference (%Ds), except for %Ds of Vinyl acetate (37.9%), which is >30% different from the initial calibration.

Quality Assessment: Samples 25C1814-01, -02, -03: Detected results for Vinyl acetate should be qualified Estimated (J). Non-detected results should be qualified Estimated (UJ).

METHOD BLANK VERIFICATION (BLK)

Method Blank results (samples BD51311-BLK1, analyzed on 04/17/2025) indicate that no reportable target compounds were detected above the method reporting limits (RL). Associated samples 25C1814-01, -02, -03.

Quality Assessment: No action is required.

INTERNAL STANDARD/SURROGATE RECOVERY

The internal standard/surrogate recoveries for all samples were within the acceptance criteria.
Quality Assessment: No action is required.

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY (IS)

No Internal Standards issues were encountered. The internal standard retention times and the internal standard areas were within method control limits.

Quality Assessment: No action is required.

LABORATORY CONTROL SAMPLE (LCS)

The laboratory control samples (LCS) in the dataset have been evaluated for method compliance (Percent Recoveries: %Rs and Relative Percent Difference: %RPDs). The results indicate the following:

LCS sample BD51311-BS1 analyzed on 04/17/2025. Associated samples 25C1814-01, -02, -03: The %R for all target volatiles were within the control limits except for Vinyl acetate (69%), low bias.

Quality Assessment: Vinyl acetate results in samples 25C1814-01, -02, -03 and blank sample BD51311-BLK1 are biased low. There were no detections for Vinyl acetate in these samples. The non-detect result in these samples should be qualified Estimated (UJ).

LABORATORY AND FIELD DUPLICATES (DUP)

The laboratory and/or field duplicate samples in a designated sample listed in this dataset have been evaluated for method compliance purposes. The following summarizes this evaluation:

No laboratory or field duplicate analysis was included in this samples set.

Quality Assessment: No action required.

TARGET ANALYTE QUANTIFICATION

Target compounds were quantitated using the appropriate Volatile Organic Compounds in Air method calculation criteria in accordance with USEPA Method TO-15.

QUANTITATION LIMITS AND DATA ASSESSMENT

Method detection and reporting limits (LOD and LOQ) provided by the laboratory were appropriate for the TO-15 method.

Note: All associated QC forms, tables, chromatograms for the method for this SDG are presented in Appendix A.

APPENDIX A

DATA VALIDATION ASSESSMENT SUPPORT FILES

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Hydro Tech Environmental

Calibration: SC50042

SDG: 25C1814

Project: 240047 32-01 57th St Queens, NY

Instrument: TO15_AIR2

Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.025		0.05		0.1	0.5188259	0.2	0.5210784	0.5	0.5088864	1	0.5237752
1,1,1-Trichloroethane	0.025		0.05		0.1	1.94288	0.2	1.816537	0.5	1.720632	1	1.708001
1,1,2,2-Tetrachloroethane	0.025		0.05		0.1	0.9526945	0.2	0.9203553	0.5	0.8983784	1	0.9188678
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.025		0.05		0.1	1.769931	0.2	1.754839	0.5	1.588959	1	1.522434
1,1,2-Trichloroethane	0.025		0.05		0.1	0.3390772	0.2	0.3837699	0.5	0.3451053	1	0.3566138
1,1-Dichloroethane	0.025		0.05		0.1	1.577628	0.2	1.458813	0.5	1.379214	1	1.372596
1,1-Dichloroethylene	0.025	1.479961	0.05	1.455846	0.1	1.366219	0.2	1.256768	0.5	1.234302	1	1.197655
1,2,4-Trichlorobenzene	0.025		0.05		0.1	0.8927135	0.2	0.670813	0.5	0.4640654	1	0.5087129
1,2,4-Trimethylbenzene	0.025		0.05		0.1	1.40539	0.2	1.357263	0.5	1.317934	1	1.27691
1,2-Dibromoethane	0.025		0.05		0.1	0.4974264	0.2	0.5331221	0.5	0.532539	1	0.5093343
1,2-Dichlorobenzene	0.025		0.05		0.1	0.8641422	0.2	0.8485272	0.5	0.8109702	1	0.8384377
1,2-Dichloroethane	0.025		0.05		0.1	1.207166	0.2	1.15344	0.5	1.109298	1	1.116863
1,2-Dichloropropane	0.025		0.05		0.1	0.3341385	0.2	0.3404698	0.5	0.2999433	1	0.311887
1,2-Dichlorotetrafluoroethane	0.025		0.05		0.1	2.02129	0.2	2.01933	0.5	2.020232	1	1.778021
1,3,5-Trimethylbenzene	0.025		0.05		0.1	1.463006	0.2	1.34673	0.5	1.315078	1	1.311841
1,3-Butadiene	0.025		0.05		0.1	0.5744274	0.2	0.4827395	0.5	0.5070889	1	0.435305
1,3-Dichlorobenzene	0.025		0.05		0.1	0.7848613	0.2	0.7838448	0.5	0.762524	1	0.7909895
1,3-Dichloropropane	0.025		0.05		0.1	0.4555241	0.2	0.4692088	0.5	0.4639561	1	0.4553723
1,4-Dichlorobenzene	0.025		0.05		0.1	0.877198	0.2	0.8049571	0.5	0.7910863	1	0.811
1,4-Dioxane	0.025		0.05		0.1	0.1997886	0.2	0.1884633	0.5	0.1896572	1	0.1804104
2,2,4-Trimethylpentane	0.025	4.290257	0.05	4.251518	0.1	4.179549	0.2	3.796728	0.5	3.521593	1	3.71736
2-Butanone	0.025		0.05		0.1	1.888291	0.2	1.826882	0.5	1.48732	1	1.468987
2-Hexanone	0.025		0.05		0.1	0.622439	0.2	0.6559716	0.5	0.5864303	1	0.5871123
3-Chloropropene	0.025		0.05		0.1	1.156547	0.2	1.014463	0.5	0.9561631	1	0.9211084
4-Methyl-2-pentanone	0.025		0.05		0.1	0.6749905	0.2	0.6271463	0.5	0.6258112	1	0.6728317
Acetone	0.025		0.05		0.1	2.352547	0.2	1.844207	0.5	1.573715	1	1.350686
Acrolein	0.025		0.05		0.1	0.3486266	0.2	0.3325456	0.5	0.3211613	1	0.2922912
Acrylonitrile	0.025		0.05		0.1	0.5267859	0.2	0.5924247	0.5	0.5591867	1	0.5788794
Benzene	0.025		0.05		0.1	3.436143	0.2	2.996525	0.5	2.780339	1	2.742682

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Hydro Tech Environmental

Calibration: SC50042

SDG: 25C1814

Project: 240047 32-01 57th St Queens, NY

Instrument: TO15_AIR2

Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzyl chloride	0.025		0.05		0.1	0.7997147	0.2	0.8998926	0.5	0.9309504	1	0.9720306
Bromodichloromethane	0.025		0.05		0.1	0.5884078	0.2	0.6241601	0.5	0.6048443	1	0.5910869
Bromoform	0.025		0.05		0.1	0.5298003	0.2	0.5404738	0.5	0.5387853	1	0.591234
Bromomethane	0.025		0.05		0.1	1.014367	0.2	0.8900705	0.5	0.8015745	1	0.6904779
Carbon disulfide	0.025		0.05		0.1	2.400189	0.2	2.358232	0.5	2.319181	1	2.209183
Carbon tetrachloride	0.025	1.770582	0.05	1.730608	0.1	1.799459	0.2	1.62546	0.5	1.477041	1	1.538373
Chlorobenzene	0.025		0.05		0.1	1.008797	0.2	0.9932506	0.5	0.9332574	1	0.9489357
Chloroethane	0.025		0.05		0.1	0.3709585	0.2	0.3514912	0.5	0.3099796	1	0.3070118
Chloroform	0.025		0.05		0.1	1.835438	0.2	1.74736	0.5	1.737179	1	1.692062
Chloromethane	0.025		0.05		0.1	1.04985	0.2	0.7453608	0.5	0.6390132	1	0.5147571
cis-1,2-Dichloroethylene	0.025	1.650689	0.05	1.501478	0.1	1.341902	0.2	1.418554	0.5	1.281687	1	1.16897
cis-1,3-Dichloropropylene	0.025		0.05		0.1	0.467871	0.2	0.4648539	0.5	0.4548479	1	0.4696202
Cyclohexane	0.025		0.05		0.1	1.432471	0.2	1.289549	0.5	1.240971	1	1.222198
Dibromochloromethane	0.025		0.05		0.1	0.3991141	0.2	0.4066228	0.5	0.3865944	1	0.38583
Dichlorodifluoromethane	0.025		0.05		0.1	2.083323	0.2	2.018332	0.5	2.018879	1	1.814799
Ethanol	0.025		0.05		0.1		0.2		0.5		1	
Ethyl acetate	0.025		0.05		0.1	2.080345	0.2	2.19844	0.5	1.870307	1	1.882016
Ethyl Benzene	0.025		0.05		0.1	1.593185	0.2	1.547366	0.5	1.537224	1	1.628462
Hexachlorobutadiene	0.025		0.05		0.1	1.076535	0.2	0.9152512	0.5	0.8163714	1	0.7726819
Isopropanol	0.025		0.05		0.1	~~5.21724~~	0.2	~~3.34652~~	0.5	2.235042	1	1.760035
Isopropylbenzene	0.025		0.05		0.1	1.610498	0.2	1.551496	0.5	1.551303	1	1.724134
Methyl Methacrylate	0.025		0.05		0.1	0.3052775	0.2	0.2937688	0.5	0.2711201	1	0.2873039
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.1	2.261234	0.2	2.222496	0.5	2.180287	1	2.039702
Methylene chloride	0.025		0.05		0.1	1.003945	0.2	0.8859573	0.5	0.892332	1	0.8602276
Naphthalene	0.025		0.05		0.1	2.262815	0.2	1.766748	0.5	1.269964	1	1.225469
n-Butylbenzene	0.025		0.05		0.1	1.444179	0.2	1.375127	0.5	1.328938	1	1.303667
n-Heptane	0.025		0.05		0.1	1.814595	0.2	1.567501	0.5	1.496647	1	1.504765
n-Hexane	0.025		0.05		0.1	1.235701	0.2	1.115673	0.5	1.121081	1	1.112354
n-Propylbenzene	0.025		0.05		0.1	1.857896	0.2	1.861498	0.5	1.748622	1	1.852155

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
o-Xylene	0.025		0.05		0.1	1.196686	0.2	1.22117	0.5	1.210825	1	1.299939
p- & m- Xylenes	0.05		0.1		0.2	1.23628	0.4	1.187576	1	1.142138	2	1.252079
p-Ethyltoluene	0.025		0.05		0.1	1.447017	0.2	1.472615	0.5	1.425116	1	1.530207
p-Isopropyltoluene	0.025		0.05		0.1	1.531785	0.2	1.50194	0.5	1.538176	1	1.543216
Propylene	0.025		0.05		0.1	0.5238083	0.2	0.4813685	0.5	0.4171838	1	0.3598011
sec-Butylbenzene	0.025		0.05		0.1	2.025919	0.2	1.944741	0.5	1.849725	1	1.821973
Styrene	0.025		0.05		0.1	0.8207175	0.2	0.8123348	0.5	0.7987579	1	0.9067763
tert-Butylbenzene	0.025		0.05		0.1	1.508796	0.2	1.442686	0.5	1.374034	1	1.442151
Tetrachloroethylene	0.025		0.05		0.1	0.5452707	0.2	0.5665511	0.5	0.5237603	1	0.5194759
Tetrahydrofuran	0.025		0.05		0.1	1.007915	0.2	0.9283357	0.5	0.8894739	1	0.9170627
Toluene	0.025		0.05		0.1	1.140778	0.2	1.083581	0.5	1.072918	1	1.100948
trans-1,2-Dichloroethylene	0.025		0.05		0.1	1.173172	0.2	1.140601	0.5	1.151267	1	1.078697
trans-1,3-Dichloropropylene	0.025		0.05		0.1	0.3737258	0.2	0.4118072	0.5	0.3931496	1	0.411304
Trichloroethylene	0.025	0.5843811	0.05	0.4708034	0.1	0.4086058	0.2	0.3949682	0.5	0.3678181	1	0.380182
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.1	2.118558	0.2	2.060461	0.5	1.935743	1	1.909093
Vinyl acetate	0.025		0.05		0.1	2.186546	0.2	2.05211	0.5	1.98769	1	1.990081
Vinyl bromide	0.025		0.05		0.1	0.7270291	0.2	0.7082174	0.5	0.6660399	1	0.6765129
Vinyl Chloride	0.025	0.7836216	0.05	0.636417	0.1	0.6798839	0.2	0.6258289	0.5	0.6091785	1	0.5375692

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	1.5	0.5294271	2	0.5273564	2.5	0.4914455	3	0.5542915	5.02	0.540523	10	0.5041874
1,1,1-Trichloroethane	1.5	1.755068	2	1.798238	2.5	1.774583	3	1.893723	5.02	1.78456	10	1.77914
1,1,2,2-Tetrachloroethane	1.5	0.8980659	2	0.9180918	2.5	0.8684613	3	0.9235834	5.02	0.9459198	10	0.8931978
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	1.5	1.568541	2	1.61159	2.5	1.648152	3	1.698133	5.02	1.684297	10	1.570548
1,1,2-Trichloroethane	1.5	0.3527764	2	0.3693906	2.5	0.3572856	3	0.372197	5.02	0.3481075	10	0.3418621
1,1-Dichloroethane	1.5	1.412297	2	1.452411	2.5	1.453701	3	1.522616	5.02	1.481272	10	1.430624
1,1-Dichloroethylene	1.5	1.224476	2	1.250495	2.5	1.294075	3	1.336053	5.02	1.310141	10	1.260314
1,2,4-Trichlorobenzene	1.5	0.5259076	2	0.4976092	2.5	0.4887858	3	0.5066875	5.02	0.6373469	10	0.6296869
1,2,4-Trimethylbenzene	1.5	1.340057	2	1.336108	2.5	1.38949	3	1.344919	5.02	1.346747	10	1.433362
1,2-Dibromoethane	1.5	0.5172248	2	0.5486225	2.5	0.5455679	3	0.5746914	5.02	0.5420163	10	0.5500496
1,2-Dichlorobenzene	1.5	0.8590383	2	0.8366677	2.5	0.8329205	3	0.8553659	5.02	0.8823925	10	0.8915545
1,2-Dichloroethane	1.5	1.14951	2	1.139519	2.5	1.11829	3	1.168112	5.02	1.181624	10	1.128402
1,2-Dichloropropane	1.5	0.3097004	2	0.3078505	2.5	0.3181106	3	0.3350636	5.02	0.3124769	10	0.3023922
1,2-Dichlorotetrafluoroethane	1.5	1.953725	2	1.91996	2.5	1.907453	3	2.092047	5.02	2.080942	10	1.990233
1,3,5-Trimethylbenzene	1.5	1.389768	2	1.382208	2.5	1.327205	3	1.361603	5.02	1.394735	10	1.355487
1,3-Butadiene	1.5	0.4526383	2	0.4160697	2.5	0.4584847	3	0.4812132	5.02	0.4579485	10	0.4250478
1,3-Dichlorobenzene	1.5	0.8182134	2	0.8687938	2.5	0.8692683	3	0.8788487	5.02	0.9567583	10	0.9475082
1,3-Dichloropropane	1.5	0.4359279	2	0.4666916	2.5	0.463507	3	0.477195	5.02	0.4550912	10	0.4633118
1,4-Dichlorobenzene	1.5	0.8587252	2	0.8437905	2.5	0.8904651	3	0.8855979	5.02	0.9739154	10	0.9564642
1,4-Dioxane	1.5	0.1858952	2	0.1896645	2.5	0.1914301	3	0.1845905	5.02	0.1894285	10	0.1833211
2,2,4-Trimethylpentane	1.5	3.826475	2	3.929233	2.5	3.827855	3	4.003826	5.02	3.867538	10	3.850891
2-Butanone	1.5	1.547414	2	1.617213	2.5	1.618421	3	1.677369	5.02	1.615084	10	1.598928
2-Hexanone	1.5	0.5794712	2	0.6141197	2.5	0.6001813	3	0.6444066	5.02	0.6060468	10	0.597916
3-Chloropropene	1.5	0.8795636	2	0.9357687	2.5	0.9102366	3	1.011193	5.02	1.000786	10	0.9032167
4-Methyl-2-pentanone	1.5	0.6648991	2	0.6904093	2.5	0.6895153	3	0.7290702	5.02	0.6744009	10	0.6990062
Acetone	1.5	1.357867	2	1.386337	2.5	1.411421	3	1.279014	5.02	1.236679	10	1.146596
Acrolein	1.5	0.3123754	2	0.3186873	2.5	0.3167835	3	0.3394771	5.02	0.3466096	10	0.3262631
Acrylonitrile	1.5	0.5456462	2	0.6204799	2.5	0.5780164	3	0.5895793	5.02	0.6167981	10	0.5703793
Benzene	1.5	2.695007	2	2.716782	2.5	2.771585	3	2.881091	5.02	2.848502	10	2.57218

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzyl chloride	1.5	1.006149	2	0.9580447	2.5	0.9988105	3	1.055106	5.02	1.159074	10	1.177763
Bromodichloromethane	1.5	0.6043041	2	0.6040429	2.5	0.6085775	3	0.6154312	5.02	0.6234946	10	0.6085124
Bromoform	1.5	0.6005935	2	0.6112974	2.5	0.5820082	3	0.7698202	5.02	0.776485	10	0.7376388
Bromomethane	1.5	0.720779	2	0.724696	2.5	0.7496542	3	0.7781859	5.02	0.7609306	10	0.7376189
Carbon disulfide	1.5	2.248985	2	2.355173	2.5	2.328878	3	2.424376	5.02	2.433149	10	2.265833
Carbon tetrachloride	1.5	1.565904	2	1.585026	2.5	1.61722	3	1.675465	5.02	1.65057	10	1.628541
Chlorobenzene	1.5	0.9453223	2	0.9763485	2.5	0.9214796	3	1.009686	5.02	0.9925027	10	0.9397916
Chloroethane	1.5	0.3291712	2	0.2999223	2.5	0.3240822	3	0.3559651	5.02	0.3426919	10	0.3400725
Chloroform	1.5	1.748724	2	1.717273	2.5	1.750345	3	1.846927	5.02	1.844846	10	1.742184
Chloromethane	1.5	0.5319986	2	0.5107138	2.5	0.5346727	3	0.5750528	5.02	0.536489	10	0.5233847
cis-1,2-Dichloroethylene	1.5	1.228311	2	1.162037	2.5	1.154618	3	1.223633	5.02	1.202285	10	1.167587
cis-1,3-Dichloropropylene	1.5	0.4699032	2	0.4683678	2.5	0.4795496	3	0.49817	5.02	0.4668244	10	0.4659026
Cyclohexane	1.5	1.254504	2	1.297585	2.5	1.255415	3	1.389596	5.02	1.297899	10	1.247444
Dibromochloromethane	1.5	0.3561573	2	0.396154	2.5	0.3777415	3	0.3976918	5.02	0.3822837	10	0.3646165
Dichlorodifluoromethane	1.5	1.876138	2	1.842015	2.5	1.91845	3	2.051693	5.02	1.992654	10	1.90387
Ethanol	1.5		2		2.5		3		5.02		10	
Ethyl acetate	1.5	1.847644	2	1.898334	2.5	1.909707	3	1.987563	5.02	1.97934	10	1.882512
Ethyl Benzene	1.5	1.550456	2	1.586583	2.5	1.563664	3	1.725516	5.02	1.612803	10	1.640964
Hexachlorobutadiene	1.5	0.7489195	2	0.7267111	2.5	0.6735252	3	0.7347634	5.02	0.7103301	10	0.6321799
Isopropanol	1.5	1.734005	2	1.678093	2.5	1.659071	3	1.689056	5.02	1.637913	10	1.530789
Isopropylbenzene	1.5	1.723431	2	1.685731	2.5	1.70588	3	1.838985	5.02	1.853253	10	1.793661
Methyl Methacrylate	1.5	0.2846278	2	0.2873648	2.5	0.305744	3	0.3100123	5.02	0.3000719	10	0.2930706
Methyl tert-butyl ether (MTBE)	1.5	2.159892	2	2.279685	2.5	2.155738	3	2.314541	5.02	2.295656	10	2.154727
Methylene chloride	1.5	0.8538666	2	0.9278592	2.5	0.8513489	3	0.9624428	5.02	0.9158328	10	0.8820304
Naphthalene	1.5	1.286832	2	1.259341	2.5	1.234466	3	1.223841	5.02	1.555753	10	1.5612
n-Butylbenzene	1.5	1.384132	2	1.265456	2.5	1.300829	3	1.380549	5.02	1.404374	10	1.404481
n-Heptane	1.5	1.491306	2	1.501139	2.5	1.520297	3	1.610908	5.02	1.590857	10	1.438133
n-Hexane	1.5	1.120186	2	1.135729	2.5	1.125081	3	1.19302	5.02	1.214102	10	1.106365
n-Propylbenzene	1.5	2.008216	2	1.955895	2.5	1.959964	3	2.106488	5.02	2.150032	10	2.130112

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
o-Xylene	1.5	1.24612	2	1.242072	2.5	1.250611	3	1.323961	5.02	1.311967	10	1.277407
p- & m- Xylenes	3	1.235637	4	1.265893	5	1.226075	6	1.360938	10	1.316911	20	1.239905
p-Ethyltoluene	1.5	1.615329	2	1.697308	2.5	1.661683	3	1.73474	5.02	1.734635	10	1.720341
p-Isopropyltoluene	1.5	1.549567	2	1.572204	2.5	1.500274	3	1.626015	5.02	1.585821	10	1.500459
Propylene	1.5	0.3836175	2	0.3520608	2.5	0.3817502	3	0.3910504	5.02	0.3907559	10	0.3713125
sec-Butylbenzene	1.5	1.886524	2	1.962484	2.5	1.929181	3	1.991405	5.02	2.009801	10	1.955065
Styrene	1.5	0.8955233	2	0.9226011	2.5	0.9265358	3	0.9568567	5.02	0.978747	10	0.9616833
tert-Butylbenzene	1.5	1.387376	2	1.468468	2.5	1.417708	3	1.46641	5.02	1.429678	10	1.437105
Tetrachloroethylene	1.5	0.4875993	2	0.5444478	2.5	0.5185728	3	0.5458367	5.02	0.5239285	10	0.5016429
Tetrahydrofuran	1.5	0.8946974	2	0.9140819	2.5	0.9108708	3	0.9887218	5.02	0.925911	10	0.8966203
Toluene	1.5	1.115002	2	1.118031	2.5	1.104784	3	1.115635	5.02	1.037104	10	1.042473
trans-1,2-Dichloroethylene	1.5	1.138068	2	1.163223	2.5	1.183345	3	1.266966	5.02	1.221819	10	1.174957
trans-1,3-Dichloropropylene	1.5	0.4182422	2	0.4293572	2.5	0.430191	3	0.4379225	5.02	0.4220192	10	0.4147613
Trichloroethylene	1.5	0.379443	2	0.3871999	2.5	0.396701	3	0.4074562	5.02	0.390137	10	0.3880254
Trichlorofluoromethane (Freon 11)	1.5	1.926861	2	1.937514	2.5	1.986198	3	2.095757	5.02	2.04225	10	1.968802
Vinyl acetate	1.5	1.961619	2	2.057879	2.5	1.935175	3	2.087681	5.02	1.991187	10	1.82151
Vinyl bromide	1.5	0.6658532	2	0.696249	2.5	0.698602	3	0.7362232	5.02	0.7265067	10	0.7123171
Vinyl Chloride	1.5	0.5672841	2	0.5570945	2.5	0.5777432	3	0.6392485	5.02	0.5959946	10	0.5755615

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5149838	4.437123	19.00771	2.478016E-02			30	
1,1,1-Trichloroethane	1.786816	3.618762	12.39743	5.226779E-02			30	
1,1,2,2-Tetrachloroethane	0.9173197	2.962615	20.83929	1.330897E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.63458	4.542305	8.127857	0.0976484			30	
1,1,2-Trichloroethane	0.3509358	4.620654	16.823	2.763483E-02			30	
1,1-Dichloroethane	1.428878	4.681849	10.3745	0.0609103			30	
1,1-Dichloroethylene	1.297637	6.168648	8.354375	9.426611E-02			30	
1,2,4-Trichlorobenzene	0.621838	20.48054	27.07186	1.813984E-02			30	
1,2,4-Trimethylbenzene	1.386089	4.92667	22.5795	2.028917E-02			30	
1,2-Dibromoethane	0.5397686	4.939222	18.14921	1.775699E-02			30	
1,2-Dichlorobenzene	0.8853911	6.673954	24.31729	2.118499E-02			30	
1,2-Dichloroethane	1.147912	2.573506	12.96164	5.276473E-02			30	
1,2-Dichloropropane	0.3118304	4.936961	14.40086	3.006039E-02			30	
1,2-Dichlorotetrafluoroethane	1.962638	4.518784	5.144714	0.1740802			30	
1,3,5-Trimethylbenzene	1.37337	3.369562	21.74	0.0209188			30	
1,3-Butadiene	0.4598385	9.037701	5.710429	0.1628826			30	
1,3-Dichlorobenzene	0.8892767	10.41217	23.42257	1.984027E-02			30	
1,3-Dichloropropane	0.4598857	2.322422	17.25557	2.627839E-02			30	
1,4-Dichlorobenzene	0.9097573	9.300865	23.612	1.207891E-02			30	
1,4-Dioxane	0.1874181	2.735663	14.74029	4.622005E-02			30	
2,2,4-Trimethylpentane	3.863553	5.881055	12.72663	3.192262E-02			30	
2-Butanone	1.625399	6.953918	11.00607	0.1067827			30	
2-Hexanone	0.6086018	3.711093	16.83593	3.512429E-02			30	
3-Chloropropene	0.9580096	7.308859	8.957714	8.327901E-02			30	
4-Methyl-2-pentanone	0.6698743	4.579254	16.13107	1.837957E-02			30	
Acetone	1.387287	24.94063	8.009929	0.2292621			30	
Acrolein	0.326007	4.552825	7.896072	0.2711945			30	
Acrylonitrile	0.5813337	4.32022	9.231928	0.274149			30	
Benzene	2.786953	8.069237	13.09293	4.272691E-02			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzyl chloride	1.065557	14.61429	23.76271	1.264177E-02			30	
Bromodichloromethane	0.605758	2.418594	14.77371	4.129941E-02			30	
Bromoform	0.6477512	13.6728	20.58543	1.368335E-02			30	
Bromomethane	0.768971	11.22469	6.500286	0.0977899			30	
Carbon disulfide	2.318697	3.026402	9.235286	6.239538E-02			30	
Carbon tetrachloride	1.647024	5.198868	12.8775	3.362442E-02			30	
Chlorobenzene	0.9567194	3.858996	18.957	2.361311E-02			30	
Chloroethane	0.3319307	5.876631	6.674714	0.1192421			30	
Chloroform	1.754143	3.258784	11.65143	6.017903E-02			30	
Chloromethane	0.5889332	25.05437	5.359929	0.1920853			30	
cis-1,2-Dichloroethylene	1.243282	12.96764	11.37606	5.237222E-02			30	
cis-1,3-Dichloropropylene	0.4735583	2.940322	15.69114	2.459855E-02			30	
Cyclohexane	1.277157	4.925367	12.56843	4.287782E-02			30	
Dibromochloromethane	0.3806586	4.52902	17.56829	0.01433			30	
Dichlorodifluoromethane	1.916998	5.48719	4.871714	0.1576322			30	
Ethanol							30	
Ethyl acetate	1.941329	4.964479	11.31	9.004345E-02			30	
Ethyl Benzene	1.601814	4.527187	19.06443	1.832643E-02			30	
Hexachlorobutadiene	0.7522773	15.65314	27.343	1.034186E-02			30	
Isopropanol	1.649423	13.13049	7.797	0.115735			30	
Isopropylbenzene	1.715938	6.142682	20.65843	4.391568E-03			30	
Methyl Methacrylate	0.2927754	3.638926	14.42571	3.438105E-02			30	
Methyl tert-butyl ether (MTBE)	2.2009	3.26069	9.5235	0.1294531			30	
Methylene chloride	0.8944791	4.963124	9.11	5.584327E-02			30	
Naphthalene	1.545268	20.11297	27.47057	1.968912E-02			30	
n-Butylbenzene	1.41621	7.436848	24.05357	1.731406E-02			30	
n-Heptane	1.53862	6.155347	13.10843	0.0241297			30	
n-Hexane	1.131148	4.453026	9.998429	4.088152E-02			30	
n-Propylbenzene	2.00054	7.467428	21.43029	1.366368E-02			30	
o-Xylene	1.243391	4.526981	19.99957	7.331033E-03			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p- & m- Xylenes	1.217691	6.736141	19.20957	1.438226E-02			30	
p-Ethyltoluene	1.639736	7.799978	21.65329	0.0153861			30	
p-Isopropyltoluene	1.574191	4.378347	23.24943	2.362375E-02			30	
Propylene	0.3899389	13.53694	4.800286	0.2285375			30	
sec-Butylbenzene	1.969977	4.827676	22.98057	1.448963E-02			30	
Styrene	0.9061753	6.846674	20.02271	8.761146E-03			30	
tert-Butylbenzene	1.455948	3.749959	22.50414	1.727722E-02			30	
Tetrachloroethylene	0.5216672	4.742572	17.56871	2.519487E-03			30	
Tetrahydrofuran	0.9232628	3.817888	11.99121	0.0950512			30	
Toluene	1.073595	4.48483	16.35614	2.061924E-02			30	
trans-1,2-Dichloroethylene	1.168221	3.722053	9.712857	0.0600511			30	
trans-1,3-Dichloropropylene	0.4173443	4.263269	16.52629	2.370371E-02			30	
Trichloroethylene	0.402485	13.6642	14.1625	3.646688E-02			30	
Trichlorofluoromethane (Freon 11)	1.980303	3.734723	7.250286	0.109221			30	
Vinyl acetate	1.924486	8.422768	10.343	0.1120765			30	
Vinyl bromide	0.6984373	3.817189	7.133929	9.909006E-02			30	
Vinyl Chloride	0.6050697	9.941306	5.628188	0.2128113			30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	8.95	0.5149838	0.461014		-10.5	30	
1,1,1-Trichloroethane	A	10.0	9.49	1.786816	1.696627		-5.0	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.31	0.9173197	0.8537233		-6.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.98	1.63458	1.631948		-0.2	30	
1,1,2-Trichloroethane	A	10.0	9.39	0.3509358	0.3296615		-6.1	30	
1,1-Dichloroethane	A	10.0	9.67	1.428878	1.382215		-3.3	30	
1,1-Dichloroethylene	A	10.0	10.1	1.297637	1.307179		0.7	30	
1,2,4-Trichlorobenzene	A	10.0	9.24	0.621838	0.5746277		-7.6	30	
1,2,4-Trimethylbenzene	A	10.0	9.30	1.386089	1.288781		-7.0	30	
1,2-Dibromoethane	A	10.0	10.2	0.5397686	0.5482875		1.6	30	
1,2-Dichlorobenzene	A	10.0	9.56	0.8853911	0.8460456		-4.4	30	
1,2-Dichloroethane	A	10.0	9.30	1.147912	1.068199		-6.9	30	
1,2-Dichloropropane	A	10.0	9.40	0.3118304	0.2931187		-6.0	30	
1,2-Dichlorotetrafluoroethane	A	10.0	10.6	1.962638	2.074681		5.7	30	
1,3,5-Trimethylbenzene	A	10.0	9.47	1.37337	1.301278		-5.2	30	
1,3-Butadiene	A	10.0	9.36	0.4598385	0.4303598		-6.4	30	
1,3-Dichlorobenzene	A	10.0	9.88	0.8892767	0.8785155		-1.2	30	
1,3-Dichloropropane	A	10.0	9.11	0.4598857	0.4188558		-8.9	30	
1,4-Dichlorobenzene	A	10.0	9.76	0.9097573	0.8882008		-2.4	30	
1,4-Dioxane	A	10.0	9.50	0.1874181	0.1781561		-4.9	30	
2,2,4-Trimethylpentane	A	10.0	8.93	3.863553	3.451624		-10.7	30	
2-Butanone	A	10.0	9.75	1.625399	1.584876		-2.5	30	
2-Hexanone	A	10.0	9.36	0.6086018	0.569857		-6.4	30	
3-Chloropropene	A	10.0	8.23	0.9580096	0.7888436		-17.7	30	
4-Methyl-2-pentanone	A	10.0	9.33	0.6698743	0.6247986		-6.7	30	
Acetone	A	10.0	8.07	1.387287	1.11911		-19.3	30	
Acrylonitrile	A	10.0	9.51	0.5813337	0.5528503		-4.9	30	
Benzene	A	10.0	9.31	2.786953	2.59654		-6.8	30	
Benzyl chloride	A	10.0	9.59	1.065557	1.021926		-4.1	30	
Bromodichloromethane	A	10.0	8.97	0.605758	0.543714		-10.2	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Bromoform	A	10.0	9.89	0.6477512	0.6406892		-1.1	30	
Bromomethane	A	10.0	9.22	0.768971	0.7090195		-7.8	30	
Carbon disulfide	A	10.0	9.68	2.318697	2.24571		-3.1	30	
Carbon tetrachloride	A	10.0	7.74	1.647024	1.274809		-22.6	30	
Chlorobenzene	A	10.0	9.54	0.9567194	0.9130415		-4.6	30	
Chloroethane	A	10.0	8.98	0.3319307	0.2979907		-10.2	30	
Chloroform	A	10.0	10.1	1.754143	1.768608		0.8	30	
Chloromethane	A	10.0	9.07	0.5889332	0.5339593		-9.3	30	
cis-1,2-Dichloroethylene	A	10.0	9.27	1.243282	1.152916		-7.3	30	
cis-1,3-Dichloropropylene	A	10.0	8.88	0.4735583	0.4207061		-11.2	30	
Cyclohexane	A	10.0	9.22	1.277157	1.177997		-7.8	30	
Dibromochloromethane	A	10.0	9.47	0.3806586	0.3606731		-5.3	30	
Dichlorodifluoromethane	A	10.0	10.1	1.916998	1.944347		1.4	30	
Ethyl acetate	A	10.0	9.45	1.941329	1.835297		-5.5	30	
Ethyl Benzene	A	10.0	9.74	1.601814	1.560324		-2.6	30	
Hexachlorobutadiene	A	10.0	8.58	0.7522773	0.6453249		-14.2	30	
Isopropanol	A	10.0	8.32	1.649423	1.372523		-16.8	30	
Methyl Methacrylate	A	10.0	9.38	0.2927754	0.274834		-6.1	30	
Methyl tert-butyl ether (MTBE)	A	10.0	9.51	2.2009	2.093627		-4.9	30	
Methylene chloride	A	10.0	9.71	0.8944791	0.8692865		-2.8	30	
Naphthalene	A	10.0	8.66	1.545268	1.339206		-13.3	30	
n-Heptane	A	10.0	9.14	1.53862	1.405955		-8.6	30	
n-Hexane	A	10.0	9.04	1.131148	1.023258		-9.5	30	
o-Xylene	A	10.0	9.61	1.243391	1.195465		-3.9	30	
p- & m- Xylenes	A	20.0	18.7	1.217691	1.13731		-6.6	30	
p-Ethyltoluene	A	10.0	10.4	1.639736	1.702258		3.8	30	
Propylene	A	10.0	9.12	0.3899389	0.3554998		-8.8	30	
Styrene	A	10.0	9.95	0.9061753	0.9021189		-0.4	30	
Tetrachloroethylene	A	10.0	9.42	0.5216672	0.4916688		-5.8	30	
Tetrahydrofuran	A	10.0	9.53	0.9232628	0.8800342		-4.7	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Toluene	A	10.0	9.33	1.073595	1.001927		-6.7	30	
trans-1,2-Dichloroethylene	A	10.0	9.63	1.168221	1.125799		-3.6	30	
trans-1,3-Dichloropropylene	A	10.0	8.68	0.4173443	0.3623288		-13.2	30	
Trichloroethylene	A	10.0	9.40	0.402485	0.3783602		-6.0	30	
Trichlorofluoromethane (Freon 11)	A	10.0	10.4	1.980303	2.065245		4.3	30	
Vinyl acetate	A	10.0	6.21	1.924486	1.195431		-37.9	30 *	
Vinyl bromide	A	10.0	10.2	0.6984373	0.7108896		1.8	30	
Vinyl Chloride	A	10.0	9.26	0.6050697	0.5603748		-7.4	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 25C1814

Client: Hydro Tech Environmental Project: 240047 32-01 57th St Queens, NY

Batch: BD51311 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
IA-1 20250328	25C1814-01	TQ232107.D	04/17/25 07:45	
IA-2 20250328	25C1814-02	TQ232108.D	04/17/25 07:45	
OA-1 20250328	25C1814-03	TQ232109.D	04/17/25 07:45	
Blank	BD51311-BLK1	TQ232098.D	04/17/25 07:45	
LCS	BD51311-BS1	TQ232096.D	04/17/25 07:45	

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
		Calibration:	SC50042

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5D1718-TUN1	TQ232094.D	04/17/25 07:39
Calibration Check	S5D1718-CCV1	TQ232095.D	04/17/25 08:32
LCS	BD51311-BS1	TQ232096.D	04/17/25 09:25
Blank	BD51311-BLK1	TQ232098.D	04/17/25 11:21
IA-1 20250328	25C1814-01	TQ232107.D	04/17/25 22:40
IA-2 20250328	25C1814-02	TQ232108.D	04/17/25 23:44
OA-1 20250328	25C1814-03	TQ232109.D	04/18/25 00:49

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.69	U
71-55-6	1,1,1-Trichloroethane	0.55	U
79-34-5	1,1,2,2-Tetrachloroethane	0.69	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	U
79-00-5	1,1,2-Trichloroethane	0.55	U
75-34-3	1,1-Dichloroethane	0.40	U
75-35-4	1,1-Dichloroethylene	0.099	U
120-82-1	1,2,4-Trichlorobenzene	0.74	U
95-63-6	1,2,4-Trimethylbenzene	0.49	U
106-93-4	1,2-Dibromoethane	0.77	U
95-50-1	1,2-Dichlorobenzene	0.60	U
107-06-2	1,2-Dichloroethane	0.40	U
78-87-5	1,2-Dichloropropane	0.46	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.70	U
108-67-8	1,3,5-Trimethylbenzene	0.49	U
106-99-0	1,3-Butadiene	0.66	U
541-73-1	1,3-Dichlorobenzene	0.60	U
142-28-9	1,3-Dichloropropane	0.46	U
106-46-7	1,4-Dichlorobenzene	0.60	U
123-91-1	1,4-Dioxane	0.72	U
540-84-1	2,2,4-Trimethylpentane	0.23	U
78-93-3	2-Butanone	0.29	U
591-78-6	2-Hexanone	0.82	U
107-05-1	3-Chloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	0.41	U
67-64-1	Acetone	1.9	U
107-13-1	Acrylonitrile	2.8	U
71-43-2	Benzene	0.32	U
100-44-7	Benzyl chloride	0.52	U
75-27-4	Bromodichloromethane	0.67	U

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	0.39	U
75-15-0	Carbon disulfide	0.31	U
56-23-5	Carbon tetrachloride	0.16	U
108-90-7	Chlorobenzene	0.46	U
75-00-3	Chloroethane	0.26	U
67-66-3	Chloroform	0.49	U
74-87-3	Chloromethane	0.21	U
156-59-2	cis-1,2-Dichloroethylene	0.099	U
10061-01-5	cis-1,3-Dichloropropylene	0.45	U
110-82-7	Cyclohexane	0.34	U
124-48-1	Dibromochloromethane	0.85	U
75-71-8	Dichlorodifluoromethane	0.49	U
141-78-6	Ethyl acetate	0.72	U
100-41-4	Ethyl Benzene	0.43	U
87-68-3	Hexachlorobutadiene	1.1	U
67-63-0	Isopropanol	1.5	U
80-62-6	Methyl Methacrylate	0.41	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.36	U
75-09-2	Methylene chloride	2.1	U
91-20-3	Naphthalene	1.0	U
142-82-5	n-Heptane	0.41	U
110-54-3	n-Hexane	0.35	U
95-47-6	o-Xylene	0.43	U
179601-23-1	p- & m- Xylenes	0.87	U
622-96-8	p-Ethyltoluene	0.49	U
115-07-1	Propylene	0.17	U
100-42-5	Styrene	0.43	U
127-18-4	Tetrachloroethylene	0.68	U
109-99-9	Tetrahydrofuran	0.59	U

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
108-88-3	Toluene	0.38	U
156-60-5	trans-1,2-Dichloroethylene	0.40	U
10061-02-6	trans-1,3-Dichloropropylene	0.45	U
79-01-6	Trichloroethylene	0.13	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.56	U
108-05-4	Vinyl acetate	0.35	U
593-60-2	Vinyl bromide	0.44	U
75-01-4	Vinyl Chloride	0.13	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	339570	11.898	363612	11.885	
ISTD: 1,4-Difluorobenzene	1134816	13.513	1166275	13.507	
ISTD: d5-Chlorobenzene	895390	18.89	1010195	18.884	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.46	94.6	70 - 130
1,1,1-Trichloroethane	10.0	10.4	104	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.72	97.2	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.3	103	70 - 130
1,1,2-Trichloroethane	10.0	10.1	101	70 - 130
1,1-Dichloroethane	10.0	10.0	100	70 - 130
1,1-Dichloroethylene	10.0	10.2	102	70 - 130
1,2,4-Trichlorobenzene	10.0	9.20	92.0	70 - 130
1,2,4-Trimethylbenzene	10.0	9.88	98.8	70 - 130
1,2-Dibromoethane	10.0	10.1	101	70 - 130
1,2-Dichlorobenzene	10.0	9.54	95.4	70 - 130
1,2-Dichloroethane	10.0	10.2	102	70 - 130
1,2-Dichloropropane	10.0	9.61	96.1	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.8	108	70 - 130
1,3,5-Trimethylbenzene	10.0	10.1	101	70 - 130
1,3-Butadiene	10.0	10.4	104	70 - 130
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130
1,3-Dichloropropane	10.0	9.54	95.4	70 - 130
1,4-Dichlorobenzene	10.0	10.5	105	70 - 130
1,4-Dioxane	10.0	10.0	100	70 - 130
2,2,4-Trimethylpentane	10.0	10.1	101	70 - 130
2-Butanone	10.0	9.31	93.1	70 - 130
2-Hexanone	10.0	9.73	97.3	70 - 130
3-Chloropropene	10.0	8.62	86.2	70 - 130
4-Methyl-2-pentanone	10.0	9.43	94.3	70 - 130
Acetone	10.0	8.85	88.5	70 - 130
Acrylonitrile	10.0	9.50	95.0	70 - 130
Benzene	10.0	10.0	100	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Benzyl chloride	10.0	10.8	108	70 - 130
Bromodichloromethane	10.0	9.70	97.0	70 - 130
Bromoform	10.0	10.6	106	70 - 130
Bromomethane	10.0	10.0	100	70 - 130
Carbon disulfide	10.0	9.57	95.7	70 - 130
Carbon tetrachloride	10.0	8.29	82.9	70 - 130
Chlorobenzene	10.0	9.99	99.9	70 - 130
Chloroethane	10.0	9.71	97.1	70 - 130
Chloroform	10.0	10.1	101	70 - 130
Chloromethane	10.0	9.90	99.0	70 - 130
cis-1,2-Dichloroethylene	10.0	9.62	96.2	70 - 130
cis-1,3-Dichloropropylene	10.0	9.19	91.9	70 - 130
Cyclohexane	10.0	9.58	95.8	70 - 130
Dibromochloromethane	10.0	9.81	98.1	70 - 130
Dichlorodifluoromethane	10.0	10.7	107	70 - 130
Ethyl acetate	10.0	9.46	94.6	70 - 130
Ethyl Benzene	10.0	9.68	96.8	70 - 130
Hexachlorobutadiene	10.0	8.01	80.1	70 - 130
Isopropanol	10.0	8.97	89.7	70 - 130
Methyl Methacrylate	10.0	9.35	93.5	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	10.0	100	70 - 130
Methylene chloride	10.0	10.2	102	70 - 130
Naphthalene	10.0	8.54	85.4	70 - 130
n-Heptane	10.0	9.63	96.3	70 - 130
n-Hexane	10.0	9.66	96.6	70 - 130
o-Xylene	10.0	9.72	97.2	70 - 130
p- & m- Xylenes	20.0	20.2	101	70 - 130
p-Ethyltoluene	10.0	10.3	103	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Propylene	10.0	9.63	96.3	70 - 130
Styrene	10.0	9.82	98.2	70 - 130
Tetrachloroethylene	10.0	9.74	97.4	70 - 130
Tetrahydrofuran	10.0	9.81	98.1	70 - 130
Toluene	10.0	9.10	91.0	70 - 130
trans-1,2-Dichloroethylene	10.0	10.3	103	70 - 130
trans-1,3-Dichloropropylene	10.0	9.49	94.9	70 - 130
Trichloroethylene	10.0	9.38	93.8	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	10.3	103	70 - 130
Vinyl acetate	10.0	6.90	69.0 *	70 - 130
Vinyl bromide	10.0	10.7	107	70 - 130
Vinyl Chloride	10.0	10.7	107	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Lab File ID:	TQ231730.D	Injection Date:	03/27/25
Instrument ID:	TO15_AIR2	Injection Time:	13:47
Sequence:	S5C3110	Lab Sample ID:	S5C3110-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	16.9	PASS
75	30 - 66% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.72	PASS
173	Less than 2% of 174	0	PASS
174	50 - 120% of 95	84.4	PASS
175	4 - 9% of 174	8.06	PASS
176	93 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.66	PASS

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
Batch:	BD51311	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
IA-1 20250328 (25C1814-01)			Lab File ID: TQ232107.D			Analyzed: 04/17/25 22:40			
Bromochloromethane	371216	11.879	363612	11.885	102	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1119176	13.513	1166275	13.507	96	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	984233	18.89	1010195	18.884	97	60 - 140	0.0060	+/-0.33	
IA-2 20250328 (25C1814-02)			Lab File ID: TQ232108.D			Analyzed: 04/17/25 23:44			
Bromochloromethane	378872	11.885	363612	11.885	104	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1152807	13.513	1166275	13.507	99	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1024486	18.89	1010195	18.884	101	60 - 140	0.0060	+/-0.33	
OA-1 20250328 (25C1814-03)			Lab File ID: TQ232109.D			Analyzed: 04/18/25 00:49			
Bromochloromethane	379227	11.891	363612	11.885	104	60 - 140	0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1181102	13.513	1166275	13.507	101	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1020767	18.89	1010195	18.884	101	60 - 140	0.0060	+/-0.33	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
Batch:	S5D1718	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5D1718-CCV1)			Lab File ID: TQ232095.D			Analyzed: 04/17/25 08:32			
Bromochloromethane	363612	11.885				60 - 140		+/-0.33	
ISTD: 1,4-Difluorobenzene	1166275	13.507				60 - 140		+/-0.33	
ISTD: d5-Chlorobenzene	1010195	18.884				60 - 140		+/-0.33	
LCS (BD51311-BS1)			Lab File ID: TQ232096.D			Analyzed: 04/17/25 09:25			
Bromochloromethane	370441	11.885	363612	11.885	102	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1194716	13.507	1166275	13.507	102	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1002027	18.89	1010195	18.884	99	60 - 140	0.0060	+/-0.33	
Blank (BD51311-BLK1)			Lab File ID: TQ232098.D			Analyzed: 04/17/25 11:21			
Bromochloromethane	339570	11.898	363612	11.885	93	60 - 140	0.0130	+/-0.33	
ISTD: 1,4-Difluorobenzene	1134816	13.513	1166275	13.507	97	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	895390	18.89	1010195	18.884	89	60 - 140	0.0060	+/-0.33	

APPENDIX B

YORK ANALYTICAL NY ASP B DATA DELIVERABLE PACKAGE

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Technical Report

prepared for:

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Report Date: 04/23/2025
Client Project ID: 240047 32-01 57th St Queens, NY
York Project (SDG) No.: 25C1814

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/23/2025
Client Project ID: 240047 32-01 57th St Queens, NY
York Project (SDG) No.: 25C1814

Hydro Tech Environmental
231 West 29th Street, Suite 1104
New York NY, 10001
Attention: Paul Matli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 28, 2025 and listed below. The project was identified as your project: **240047 32-01 57th St Queens, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C1814-01	IA-1 20250328	Indoor Ambient Air	03/28/2025	03/28/2025
25C1814-02	IA-2 20250328	Indoor Ambient Air	03/28/2025	03/28/2025
25C1814-03	OA-1 20250328	Outdoor Ambient Ai	03/28/2025	03/28/2025

General Notes for York Project (SDG) No.: 25C1814

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 04/23/2025

CERTIFICATE OF ANALYSIS

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY

Volatile Organic Compounds in Air by GC/MS

Client Sample Id:	Lab Sample Id:	Matrix:
IA-1 20250328	25C1814-01	Indoor Ambient Air
IA-2 20250328	25C1814-02	Indoor Ambient Air
OA-1 20250328	25C1814-03	Outdoor Ambient Air

Analyzed by: York Analytical Laboratories, Inc. - Stratford

Client:	Hydro Tech Environmental	**York Work Order No:**	25C1814
Client Project:	240047 32-01 57th St Queens, NY	**Date Received:**	3/28/25 5:55 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	IA-1 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:28 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-01	1,1,1,2-Tetrachloroethane	ND		0.62		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1,1-Trichloroethane	ND		0.49		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1,2,2-Tetrachloroethane	ND		0.62		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.69		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1,2-Trichloroethane	ND		0.49		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1-Dichloroethane	ND		0.36		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,1-Dichloroethylene	ND		0.089		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2,4-Trichlorobenzene	ND		0.67		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2,4-Trimethylbenzene	**1.5**		0.44		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2-Dibromoethane	ND		0.69		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2-Dichlorobenzene	ND		0.54		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2-Dichloroethane	ND		0.36		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2-Dichloropropane	ND		0.42		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,2-Dichlorotetrafluoroethane	ND		0.63		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,3,5-Trimethylbenzene	**0.53**		0.44		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,3-Butadiene	ND		0.60		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,3-Dichlorobenzene	ND		0.54		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,3-Dichloropropane	ND		0.42		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,4-Dichlorobenzene	ND		0.54		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	1,4-Dioxane	ND		0.65		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	2,2,4-Trimethylpentane	ND		0.21		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	2-Butanone	**18**		0.27		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	2-Hexanone	ND		0.74		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	3-Chloropropene	ND		1.4		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	4-Methyl-2-pentanone	**7.2**		0.37		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Acetone	**52**		1.7		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Acrylonitrile	ND		2.5		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Benzene	**1.6**		0.29		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Benzyl chloride	ND		0.47		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Bromodichloromethane	ND		0.60		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Bromoform	ND		0.93		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Bromomethane	ND		0.35		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Carbon disulfide	ND		0.28		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Carbon tetrachloride	**0.34**		0.14		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Chlorobenzene	ND		0.41		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Chloroethane	ND		0.24		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Chloroform	ND		0.44		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Chloromethane	**1.3**		0.19		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	cis-1,2-Dichloroethylene	ND		0.089		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	cis-1,3-Dichloropropylene	ND		0.41		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Cyclohexane	**0.37**		0.31		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Dibromochloromethane	ND		0.77		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Dichlorodifluoromethane	**2.5**		0.45		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Ethyl acetate	**19**		0.65		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Ethyl Benzene	**5.8**		0.39		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Hexachlorobutadiene	ND		0.96		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Isopropanol	**9.7**		1.3		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Methyl Methacrylate	ND		0.37		0.9	ug/m³	4/17/25 10:40 pm

Client:	Hydro Tech Environmental	**York Work Order No:**	25C1814
Client Project:	240047 32-01 57th St Queens, NY	**Date Received:**	3/28/25 5:55 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	IA-1 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:28 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-01	Methyl tert-butyl ether (MTBE)	ND		0.32		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Methylene chloride	ND		1.9		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Naphthalene	ND		0.94		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	n-Heptane	**2.8**		0.37		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	n-Hexane	**1.3**		0.32		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	o-Xylene	**5.5**		0.39		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	p- & m- Xylenes	**21**		0.78		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	p-Ethyltoluene	**1.2**		0.44		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Propylene	ND		0.15		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Styrene	ND		0.38		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Tetrachloroethylene	**0.79**		0.61		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Tetrahydrofuran	ND		0.53		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Toluene	**24**		0.34		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	trans-1,2-Dichloroethylene	ND		0.36		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	trans-1,3-Dichloropropylene	ND		0.41		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Trichloroethylene	**0.24**		0.12		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Trichlorofluoromethane (Freon 11)	**1.3**		0.51		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Vinyl acetate	ND	TO-CCV, TO-LCS-L	0.32		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Vinyl bromide	ND		0.39		0.9	ug/m³	4/17/25 10:40 pm
25C1814-01	Vinyl Chloride	ND		0.12		0.9	ug/m³	4/17/25 10:40 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	IA-2 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:30 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-02	1,1,1,2-Tetrachloroethane	ND		0.58		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1,1-Trichloroethane	ND		0.46		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1,2,2-Tetrachloroethane	ND		0.58		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.65		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1,2-Trichloroethane	ND		0.46		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1-Dichloroethane	ND		0.34		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,1-Dichloroethylene	ND		0.084		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2,4-Trichlorobenzene	ND		0.63		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2,4-Trimethylbenzene	**1.8**		0.42		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2-Dibromoethane	ND		0.65		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2-Dichlorobenzene	ND		0.51		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2-Dichloroethane	ND		0.34		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2-Dichloropropane	ND		0.39		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,2-Dichlorotetrafluoroethane	ND		0.59		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,3,5-Trimethylbenzene	**0.71**		0.42		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,3-Butadiene	ND		0.56		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,3-Dichlorobenzene	ND		0.51		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,3-Dichloropropane	ND		0.39		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,4-Dichlorobenzene	ND		0.51		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	1,4-Dioxane	ND		0.61		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	2,2,4-Trimethylpentane	ND		0.20		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	2-Butanone	**37**		0.25		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	2-Hexanone	ND		0.70		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	3-Chloropropene	ND		1.3		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	4-Methyl-2-pentanone	**16**		0.35		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Acetone	**85**		1.6		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Acrylonitrile	ND		2.4		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Benzene	**1.2**		0.27		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Benzyl chloride	ND		0.44		0.851	ug/m³	4/17/25 11:44 pm

Client:	Hydro Tech Environmental	**York Work Order No:**	25C1814
Client Project:	240047 32-01 57th St Queens, NY	**Date Received:**	3/28/25 5:55 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Indoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	IA-2 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:30 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-02	Bromodichloromethane	ND		0.57		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Bromoform	ND		0.88		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Bromomethane	**0.56**		0.33		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Carbon disulfide	ND		0.27		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Carbon tetrachloride	**0.37**		0.13		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Chlorobenzene	ND		0.39		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Chloroethane	ND		0.22		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Chloroform	ND		0.42		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Chloromethane	**1.3**		0.18		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	cis-1,2-Dichloroethylene	ND		0.084		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	cis-1,3-Dichloropropylene	ND		0.39		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Cyclohexane	**0.47**		0.29		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Dibromochloromethane	ND		0.72		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Dichlorodifluoromethane	**2.4**		0.42		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Ethyl acetate	**13**		0.61		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Ethyl Benzene	**14**		0.37		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Hexachlorobutadiene	ND		0.91		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Isopropanol	**9.8**		1.3		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Methyl Methacrylate	ND		0.35		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Methyl tert-butyl ether (MTBE)	ND		0.31		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Methylene chloride	ND		1.8		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Naphthalene	ND		0.89		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	n-Heptane	**4.6**		0.35		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	n-Hexane	**1.7**		0.30		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	o-Xylene	**12**		0.37		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	p- & m- Xylenes	**44**		0.74		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	p-Ethyltoluene	**1.6**		0.42		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Propylene	ND		0.15		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Styrene	ND		0.36		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Tetrachloroethylene	ND		0.58		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Tetrahydrofuran	ND		0.50		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Toluene	**38**		0.32		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	trans-1,2-Dichloroethylene	ND		0.34		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	trans-1,3-Dichloropropylene	ND		0.39		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Trichloroethylene	**0.14**		0.11		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Trichlorofluoromethane (Freon 11)	**1.2**		0.48		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Vinyl acetate	ND	TO-CCV, TO-LCS-L	0.30		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Vinyl bromide	ND		0.37		0.851	ug/m³	4/17/25 11:44 pm
25C1814-02	Vinyl Chloride	ND		0.11		0.851	ug/m³	4/17/25 11:44 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	OA-1 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:26 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-03	1,1,1,2-Tetrachloroethane	ND		0.74		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1,1-Trichloroethane	ND		0.59		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1,2,2-Tetrachloroethane	ND		0.74		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		0.83		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1,2-Trichloroethane	ND		0.59		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1-Dichloroethane	ND		0.44		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,1-Dichloroethylene	ND		0.11		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2,4-Trichlorobenzene	ND		0.80		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2,4-Trimethylbenzene	ND		0.53		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2-Dibromoethane	ND		0.83		1.084	ug/m³	4/18/25 12:49 am

Client:	Hydro Tech Environmental	**York Work Order No:**	25C1814
Client Project:	240047 32-01 57th St Queens, NY	**Date Received:**	3/28/25 5:55 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	OA-1 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:26 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-03	1,2-Dichlorobenzene	ND		0.65		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2-Dichloroethane	ND		0.44		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2-Dichloropropane	ND		0.50		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,2-Dichlorotetrafluoroethane	ND		0.76		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,3,5-Trimethylbenzene	ND		0.53		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,3-Butadiene	ND		0.72		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,3-Dichlorobenzene	ND		0.65		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,3-Dichloropropane	ND		0.50		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,4-Dichlorobenzene	ND		0.65		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	1,4-Dioxane	ND		0.78		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	2,2,4-Trimethylpentane	ND		0.25		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	2-Butanone	**12**		0.32		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	2-Hexanone	ND		0.89		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	3-Chloropropene	ND		1.7		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	4-Methyl-2-pentanone	**2.8**		0.44		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Acetone	**21**		2.1		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Acrylonitrile	ND		3.1		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Benzene	**0.66**		0.35		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Benzyl chloride	ND		0.56		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Bromodichloromethane	ND		0.73		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Bromoform	ND		1.1		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Bromomethane	ND		0.42		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Carbon disulfide	ND		0.34		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Carbon tetrachloride	**0.34**		0.17		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Chlorobenzene	ND		0.50		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Chloroethane	ND		0.29		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Chloroform	ND		0.53		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Chloromethane	**1.3**		0.22		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	cis-1,2-Dichloroethylene	ND		0.11		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	cis-1,3-Dichloropropylene	ND		0.49		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Cyclohexane	ND		0.37		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Dibromochloromethane	ND		0.92		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Dichlorodifluoromethane	**2.4**		0.54		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Ethyl acetate	**5.5**		0.78		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Ethyl Benzene	**3.4**		0.47		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Hexachlorobutadiene	ND		1.2		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Isopropanol	**4.7**		1.6		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Methyl Methacrylate	ND		0.44		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Methyl tert-butyl ether (MTBE)	ND		0.39		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Methylene chloride	ND		2.3		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Naphthalene	ND		1.1		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	n-Heptane	**0.80**		0.44		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	n-Hexane	**0.57**		0.38		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	o-Xylene	**3.3**		0.47		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	p- & m- Xylenes	**12**		0.94		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	p-Ethyltoluene	ND		0.53		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Propylene	ND		0.19		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Styrene	ND		0.46		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Tetrachloroethylene	ND		0.74		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Tetrahydrofuran	ND		0.64		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Toluene	**7.2**		0.41		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	trans-1,2-Dichloroethylene	ND		0.43		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	trans-1,3-Dichloropropylene	ND		0.49		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Trichloroethylene	ND		0.15		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Trichlorofluoromethane (Freon 11)	**1.3**		0.61		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Vinyl acetate	ND	TO-CCV, TO-LCS-L	0.38		1.084	ug/m³	4/18/25 12:49 am
25C1814-03	Vinyl bromide	ND		0.47		1.084	ug/m³	4/18/25 12:49 am

Client:	Hydro Tech Environmental	**York Work Order No:**	25C1814
Client Project:	240047 32-01 57th St Queens, NY	**Date Received:**	3/28/25 5:55 pm

Analysis:	**Volatile Organic Compounds in Air by GC/MS**	**Matrix:**	Outdoor Ambient Air
Prep Method:	EPA TO15 PREP	**Client ID**	OA-1 20250328
Reference Method:	EPA TO-15	**Collection Date/Time**	3/28/25 3:26 pm

Lab ID	Parameter	Result	Flag	RL	MDL	Dilution	Units	Analyzed
25C1814-03	Vinyl Chloride	ND		0.14		1.084	ug/m³	4/18/25 12:49 am

Cassie L. Mosher
Laboratory Manager

York Narrative Contents Summary

This Work Order Narrative includes the following items for full review of any quality issues encountered with samples and their analyses for the parameters requested:

1. Sample Receipt Information, including a Sample Summary which cross references your sample ID with York Analytical sample ID, identifying the matrix and Date/Time collected and received at York.
2. Analysis Methodologies employed for the work order
3. Any Sample Issues encountered such as Holding time exceedances, improper containers/preservation, or any related issue with sample integrity
4. Specific Analysis Findings in order: Volatiles, Semi-Volatiles, Pesticides/PCBs, Herbicides, other GC parameters, Metals, Mercury, Wet Chemistry.
5. Analysis Findings Include:

    - Analyte qualifier summary
    - Samples and associated Calibration Curve(s)
    - Calibration Outliers Discussion/Tabular presentation and affected samples
    - Initial Calibration Verification (ICV) information
    - Batch QC Sample Performance (Blanks, Blank Spikes (BS), MS/MSD)
    - Internal Standard Performance
    - Surrogate Performance
    - Example Calculations

Work Order Narrative

York Analytical Work Order No.: 25C1814

Client : Hydro Tech Environmental

Client Project ID : 240047 32-01 57th St Queens, NY

Prepared for : Paul Matli

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 03/28/2025 5:55 PM

3 Air sample(s) were received intact unless otherwise noted.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
IA-1 20250328	25C1814-01	Air	03/28/2025 3:28 PM	03/28/2025 5:55 PM
IA-2 20250328	25C1814-02	Air	03/28/2025 3:30 PM	03/28/2025 5:55 PM
OA-1 20250328	25C1814-03	Air	03/28/2025 3:26 PM	03/28/2025 5:55 PM

WorkOrder Comments

York Analytical Work Order Narrative

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
AIR	EPA TO15 PREP	EPA TO-15

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
IA-1 20250328	EPA TO-15	25C1814-01	Air	Vinyl acetate	TO-LCS-L
IA-1 20250328	EPA TO-15	25C1814-01	Air	Vinyl acetate	TO-CCV
IA-2 20250328	EPA TO-15	25C1814-02	Air	Vinyl acetate	TO-LCS-L
IA-2 20250328	EPA TO-15	25C1814-02	Air	Vinyl acetate	TO-CCV
OA-1 20250328	EPA TO-15	25C1814-03	Air	Vinyl acetate	TO-LCS-L
OA-1 20250328	EPA TO-15	25C1814-03	Air	Vinyl acetate	TO-CCV

Qualifier Definitions :

TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.

4.0 Analysis Issues

EPA TO-15

Volatile Organics, EPA TO15 Full List

No problems were encountered with analysis of the samples, other than detailed below.

Initial Calibration : SC50042

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
SC50042	S5C3110	S5C3110	Secondary Cal Check	S5C3110-SCV1	TO15_AIR2	TQ231751.D
SC50042	S5D1718	S5D1718	Calibration Check	S5D1718-CCV1	TO15_AIR2	TQ232095.D
SC50042	BD51311	S5D1718	LCS	BD51311-BS1	TO15_AIR2	TQ232096.D
SC50042	BD51311	S5D1718	Blank	BD51311-BLK1	TO15_AIR2	TQ232098.D
SC50042	BD51311	S5D1718	IA-1 20250328	25C1814-01	TO15_AIR2	TQ232107.D
SC50042	BD51311	S5D1718	IA-2 20250328	25C1814-02	TO15_AIR2	TQ232108.D
SC50042	BD51311	S5D1718	OA-1 20250328	25C1814-03	TO15_AIR2	TQ232109.D

Initial calibration for EPA TO-15 met method guidelines.

EPA TO-15

Initial Calibration Verification-

The initial calibration verification for analytical method EPA TO-15

All target analytes recovered within method limits

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
SC50042	S5D1718	S5D1718-CCV1	TQ232095.D	04/17/25 08:32

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
SC50042	S5D1718-CCV1	Vinyl acetate	ppbv	6.21	10.0	**62.1**	70 130	TQ232095.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
SC50042	S5D1718	BD51311-BS1	LCS		TQ232096.D
SC50042	S5D1718	BD51311-BLK1	Blank		TQ232098.D
SC50042	S5D1718	25C1814-01	IA-1 20250328		TQ232107.D
SC50042	S5D1718	25C1814-02	IA-2 20250328		TQ232108.D
SC50042	S5D1718	25C1814-03	OA-1 20250328		TQ232109.D

York Analytical Work Order Narrative

EPA TO-15

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
AIR	BD51311	S5D1718	TO15_AIR2	BD51311-BLK1	TQ232098.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
SC50042	5D1718	BD51311-BS1	LCS	TQ232096.D

Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
S5D1718	LCS	BD51311-BS1	Vinyl acetate		**69**		70 - 130	

The following samples were affected:

Batch	LabNumber	SampleName	SourceSample
BD51311	25C1814-01	IA-1 20250328	
BD51311	25C1814-02	IA-2 20250328	
BD51311	25C1814-03	OA-1 20250328	
BD51311	BD51311-BLK1	Blank	

EPA TO-15

Dilutions:

	SpecificMethod	Batch	SampleName	LabNumber	Dilution
	EPA TO-15	BD51311	OA-1 20250328	25C1814-03	1.084

EPA TO-15

Internal Standards / Surrogates

Internal Standards Issues: No issues were encountered.

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m³

Cx (ug/m³)= Compound concentration in ug/m³

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

WHERE:
Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration.
DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams.
VA = volume of MeOH aliquot for medium level soils
VE = final volume of concentrated extract
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Analytical Batch Summary

Batch ID: BD51311 **Preparation Method:** EPA TO15 PREP **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
25C1814-01	IA-1 20250328	04/17/25
25C1814-02	IA-2 20250328	04/17/25
25C1814-03	OA-1 20250328	04/17/25
BD51311-BLK1	Blank	04/17/25
BD51311-BS1	LCS	04/17/25

Certified Analyses included in this Report

Analyte	CAS #	Certifications
EPA TO-15 in Air		
1,1,1-Trichloroethane	71-55-6	NELAC-NY12058,NJDEP-NY037
1,1,2,2-Tetrachloroethane	79-34-5	NELAC-NY12058,NJDEP-NY037
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NELAC-NY12058,NJDEP-NY037
1,1,2-Trichloroethane	79-00-5	NELAC-NY12058,NJDEP-NY037
1,1-Dichloroethane	75-34-3	NELAC-NY12058,NJDEP-NY037
1,1-Dichloroethylene	75-35-4	NELAC-NY12058,NJDEP-NY037
1,2,4-Trichlorobenzene	120-82-1	NELAC-NY12058,NJDEP-NY037
1,2,4-Trimethylbenzene	95-63-6	NELAC-NY12058,NJDEP-NY037
1,2-Dibromoethane	106-93-4	NELAC-NY12058,NJDEP-NY037
1,2-Dichlorobenzene	95-50-1	NELAC-NY12058,NJDEP-NY037
1,2-Dichloroethane	107-06-2	NELAC-NY12058,NJDEP-NY037
1,2-Dichloropropane	78-87-5	NELAC-NY12058,NJDEP-NY037
1,2-Dichlorotetrafluoroethane	76-14-2	NELAC-NY12058,NJDEP-NY037
1,3,5-Trimethylbenzene	108-67-8	NELAC-NY12058,NJDEP-NY037
1,3-Butadiene	106-99-0	NELAC-NY12058,NJDEP-NY037
1,3-Dichlorobenzene	541-73-1	NELAC-NY12058,NJDEP-NY037
1,4-Dichlorobenzene	106-46-7	NELAC-NY12058,NJDEP-NY037
1,4-Dioxane	123-91-1	NELAC-NY12058,NJDEP-NY037
2-Butanone	78-93-3	NELAC-NY12058,NJDEP-NY037
3-Chloropropene	107-05-1	NELAC-NY12058,NJDEP-NY037
4-Methyl-2-pentanone	108-10-1	NELAC-NY12058,NJDEP-NY037
Acetone	67-64-1	NELAC-NY12058,NJDEP-NY037
Acrylonitrile	107-13-1	NELAC-NY12058,NJDEP-NY037
Benzene	71-43-2	NELAC-NY12058,NJDEP-NY037
Benzyl chloride	100-44-7	NELAC-NY12058,NJDEP-NY037
Bromodichloromethane	75-27-4	NELAC-NY12058,NJDEP-NY037
Bromoform	75-25-2	NELAC-NY12058,NJDEP-NY037
Bromomethane	74-83-9	NELAC-NY12058,NJDEP-NY037
Carbon disulfide	75-15-0	NELAC-NY12058,NJDEP-NY037
Carbon tetrachloride	56-23-5	NELAC-NY12058,NJDEP-NY037
Chlorobenzene	108-90-7	NELAC-NY12058,NJDEP-NY037
Chloroethane	75-00-3	NELAC-NY12058,NJDEP-NY037
Chloroform	67-66-3	NELAC-NY12058,NJDEP-NY037
Chloromethane	74-87-3	NELAC-NY12058,NJDEP-NY037
cis-1,2-Dichloroethylene	156-59-2	NELAC-NY12058,NJDEP-NY037
cis-1,3-Dichloropropylene	10061-01-5	NELAC-NY12058,NJDEP-NY037
Cyclohexane	110-82-7	NELAC-NY12058,NJDEP-NY037
Dibromochloromethane	124-48-1	NELAC-NY12058,NJDEP-NY037
Dichlorodifluoromethane	75-71-8	NELAC-NY12058,NJDEP-NY037
Ethyl Benzene	100-41-4	NELAC-NY12058,NJDEP-NY037
Hexachlorobutadiene	87-68-3	NELAC-NY12058,NJDEP-NY037
Isopropanol	67-63-0	NELAC-NY12058,NJDEP-NY037
Methyl Methacrylate	80-62-6	NELAC-NY12058,NJDEP-NY037
Methyl tert-butyl ether (MTBE)	1634-04-4	NELAC-NY12058,NJDEP-NY037
Methylene chloride	75-09-2	NELAC-NY12058,NJDEP-NY037
Naphthalene	91-20-3	NJDEP-NY037
n-Heptane	142-82-5	NELAC-NY12058,NJDEP-NY037
n-Hexane	110-54-3	NELAC-NY12058,NJDEP-NY037
o-Xylene	95-47-6	NELAC-NY12058,NJDEP-NY037
p- & m- Xylenes	179601-23-1	NELAC-NY12058,NJDEP-NY037
Styrene	100-42-5	NELAC-NY12058,NJDEP-NY037
Tetrachloroethylene	127-18-4	NELAC-NY12058,NJDEP-NY037
Toluene	108-88-3	NELAC-NY12058,NJDEP-NY037

Certified Analyses included in this Report
(Continued)

Analyte	CAS #	Certifications
EPA TO-15 in Air (Continued)		
trans-1,2-Dichloroethylene	156-60-5	NELAC-NY12058,NJDEP-NY037
trans-1,3-Dichloropropylene	10061-02-6	NELAC-NY12058,NJDEP-NY037
Trichloroethylene	79-01-6	NELAC-NY12058,NJDEP-NY037
Trichlorofluoromethane (Freon 11)	75-69-4	NELAC-NY12058,NJDEP-NY037
Vinyl acetate	108-05-4	NELAC-NY12058,NJDEP-NY037
Vinyl bromide	593-60-2	NELAC-NY12058,NJDEP-NY037
Vinyl Chloride	75-01-4	NELAC-NY12058,NJDEP-NY037

List of Certifications

Code	Description	Number	Expires
NELAC-NH2097	NH ELAP 1633 Primary NELAC - Queens	2097	06/22/2025
CTDPH-PH-0721	CTDPH Cert-Queens	PH-0721	09/30/2026
NELAC-NY11706	Newtown -NYSDOH NELAC	11706	04/01/2025
CTDOH-PH-0800	CTDPH Newtown CT	PH-0800	12/31/2025
NJDEP-NY037	NJDEP Certification - Queens	NY037	06/30/2025
NELAC-NY12058	NYSDOH NELAC/ELAP Program - Queens	NY ELAP-12058	04/01/2025
PADEP-68-04440	PADEP Registration - Stratford	68-04440	09/30/2025
NJDEP-CT005	NJDEP Certification - Stratford	CT005	06/30/2025
CTDOH-PH-0723	CTDPH - Stratford	PH-0723	06/30/2025
NELAC-NY10854	NYSDOH NELAC/ELAP Program - Stratford	NY ELAP-10854	04/01/2025

HOLDING TIME SUMMARY

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford **SDG:** 25C1814

Client: Hydro Tech Environmental **Project:** 240047 32-01 57th St Queens, NY

Sample Name	Date Sampled	Date Received	Preparation Holding Time (Days)	Preparation Date	Preparation Expiration Date	Analysis Holding Time (Days)	Analysis Date	Analysis Expiration Date	Q
IA-1 20250328	03/28/25 15:28	03/28/25 17:55	30.00	04/17/25 07:45	04/27/25 15:28	30.00	04/17/25 22:40	04/27/25 15:28	
IA-2 20250328	03/28/25 15:30	03/28/25 17:55	30.00	04/17/25 07:45	04/27/25 15:30	30.00	04/17/25 23:44	04/27/25 15:30	
OA-1 20250328	03/28/25 15:26	03/28/25 17:55	30.00	04/17/25 07:45	04/27/25 15:26	30.00	04/18/25 00:49	04/27/25 15:26	

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 25C1814

Page 1 of 1

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Hydrotech Env Eng Geol PC	Company: SAME	Company: SAME	240047	RUSH - Next Day
Address: 231 W 29th St New York NY	Address:	Address:	YOUR Project Name: 32-01 57th St Queens NY	RUSH - Two Day
Phone: 631 241 7165	Phone.:	Phone.:		RUSH - Three Day
Contact: Paul Mathi	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#: 53167	Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Donavan Edwards / Donavan Edwards

Air Matrix Codes
- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From
- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ✓ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ✓ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
IA-1 20250328	3/28/25 3:28	AI	-30	-8	02307	00686	EPA TO-15
IA-2	3:30	AI	-30	-9	02311	00475	
OA-1	3:26	AO	-30	-9	02476	00430	

Comments: Sampling for 8 hrs.

Detection Limits Required
≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ~~0.2~~ 1 ug/m³

Sampling Media
6 Liter Canister ✓
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Donavan Edwards	3/28 16:52	A. Husain 3/28/25 16:52		A. Husain 3/28/25	17:55
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				MA 3/28/25	17:55

DATA PACKAGE

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 25C1814

Client: Hydro Tech Environmental

Project: 240047 32-01 57th St Queens, NY

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford **SDG:** 25C1814

Client: Hydro Tech Environmental **Project:** 240047 32-01 57th St Queens, NY

Matrix: Air **Instrument:** TO15_AIR2

Analyte	LOD	LOQ	Units
1,1,1,2-Tetrachloroethane	0.7	0.7	ug/m³
1,1,1-Trichloroethane	0.55	0.55	ug/m³
1,1,2,2-Tetrachloroethane	0.7	0.7	ug/m³
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.78	0.78	ug/m³
1,1,2-Trichloroethane	0.55	0.55	ug/m³
1,1-Dichloroethane	0.41	0.41	ug/m³
1,1-Dichloroethylene	0.1	0.1	ug/m³
1,2,4-Trichlorobenzene	0.75	0.75	ug/m³
1,2,4-Trimethylbenzene	0.5	0.5	ug/m³
1,2-Dibromoethane	0.78	0.78	ug/m³
1,2-Dichlorobenzene	0.61	0.61	ug/m³
1,2-Dichloroethane	0.41	0.41	ug/m³
1,2-Dichloropropane	0.47	0.47	ug/m³
1,2-Dichlorotetrafluoroethane	0.71	0.71	ug/m³
1,3,5-Trimethylbenzene	0.5	0.5	ug/m³
1,3-Butadiene	0.68	0.68	ug/m³
1,3-Dichlorobenzene	0.61	0.61	ug/m³
1,3-Dichloropropane	0.47	0.47	ug/m³
1,4-Dichlorobenzene	0.61	0.61	ug/m³
1,4-Dioxane	0.73	0.73	ug/m³
2,2,4-Trimethylpentane	0.12	0.24	ug/m³
2-Butanone	0.3	0.3	ug/m³
2-Hexanone	0.83	0.83	ug/m³
3-Chloropropene	1.6	1.6	ug/m³
4-Methyl-2-pentanone	0.42	0.42	ug/m³
Acetone	0.48	1.9	ug/m³
Acrylonitrile	0.22	2.9	ug/m³
Benzene	0.32	0.32	ug/m³
Benzyl chloride	0.53	0.53	ug/m³
Bromodichloromethane	0.68	0.68	ug/m³
Bromoform	1.1	1.1	ug/m³
Bromomethane	0.39	0.39	ug/m³
Carbon disulfide	0.32	0.32	ug/m³

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford **SDG:** 25C1814

Client: Hydro Tech Environmental **Project:** 240047 32-01 57th St Queens, NY

Matrix: Air **Instrument:** TO15_AIR2

Analyte	LOD	LOQ	Units
Carbon tetrachloride	0.16	0.16	ug/m³
Chlorobenzene	0.47	0.47	ug/m³
Chloroethane	0.27	0.27	ug/m³
Chloroform	0.5	0.5	ug/m³
Chloromethane	0.21	0.21	ug/m³
cis-1,2-Dichloroethylene	0.1	0.1	ug/m³
cis-1,3-Dichloropropylene	0.46	0.46	ug/m³
Cyclohexane	0.35	0.35	ug/m³
Dibromochloromethane	0.87	0.87	ug/m³
Dichlorodifluoromethane	0.5	0.5	ug/m³
Ethyl acetate	0.73	0.73	ug/m³
Ethyl Benzene	0.44	0.44	ug/m³
Hexachlorobutadiene	1.1	1.1	ug/m³
Isopropanol	0.5	1.5	ug/m³
Methyl Methacrylate	0.42	0.42	ug/m³
Methyl tert-butyl ether (MTBE)	0.37	0.37	ug/m³
Methylene chloride	0.71	2.1	ug/m³
Naphthalene	1.1	1.1	ug/m³
n-Heptane	0.42	0.42	ug/m³
n-Hexane	0.36	0.36	ug/m³
o-Xylene	0.44	0.44	ug/m³
p- & m- Xylenes	0.88	0.88	ug/m³
p-Ethyltoluene	0.5	0.5	ug/m³
Propylene	0.18	0.18	ug/m³
Styrene	0.43	0.43	ug/m³
Tetrachloroethylene	0.69	0.69	ug/m³
Tetrahydrofuran	0.6	0.6	ug/m³
Toluene	0.38	0.38	ug/m³
trans-1,2-Dichloroethylene	0.4	0.4	ug/m³
trans-1,3-Dichloropropylene	0.46	0.46	ug/m³
Trichloroethylene	0.14	0.14	ug/m³
Trichlorofluoromethane (Freon 11)	0.57	0.57	ug/m³
Vinyl acetate	0.36	0.36	ug/m³
Vinyl bromide	0.44	0.44	ug/m³

METHOD DETECTION AND REPORTING LIMITS

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford **SDG:** 25C1814

Client: Hydro Tech Environmental **Project:** 240047 32-01 57th St Queens, NY

Matrix: Air **Instrument:** TO15_AIR2

Analyte	LOD	LOQ	Units
Vinyl Chloride	0.13	0.13	ug/m³

Sample Information

Client Sample ID: **IA-1 20250328** **York Sample ID:** **25C1814-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.62	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.49	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.62	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.69	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.49	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.36	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.089	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.67	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
95-63-6	**1,2,4-Trimethylbenzene**	1.5		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.69	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.36	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.42	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.63	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
108-67-8	**1,3,5-Trimethylbenzene**	0.53		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
106-99-0	1,3-Butadiene	ND		ug/m³	0.60	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.42	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.54	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
123-91-1	1,4-Dioxane	ND		ug/m³	0.65	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.21	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
78-93-3	**2-Butanone**	18		ug/m³	0.27	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.74	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.4	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
108-10-1	**4-Methyl-2-pentanone**	7.2		ug/m³	0.37	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
67-64-1	**Acetone**	52		ug/m³	1.7	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
107-13-1	Acrylonitrile	ND		ug/m³	2.5	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
71-43-2	**Benzene**	1.6		ug/m³	0.29	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.47	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.60	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-25-2	Bromoform	ND		ug/m³	0.93	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
74-83-9	Bromomethane	ND		ug/m³	0.35	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.28	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
56-23-5	**Carbon tetrachloride**	0.34		ug/m³	0.14	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.41	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-00-3	Chloroethane	ND		ug/m³	0.24	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR

Sample Information

Client Sample ID: **IA-1 20250328** **York Sample ID:** **25C1814-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:28 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
74-87-3	**Chloromethane**	1.3		ug/m³	0.19	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.089	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.41	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
110-82-7	**Cyclohexane**	0.37		ug/m³	0.31	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.77	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-71-8	**Dichlorodifluoromethane**	2.5		ug/m³	0.45	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
141-78-6	*** Ethyl acetate**	19		ug/m³	0.65	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
100-41-4	**Ethyl Benzene**	5.8		ug/m³	0.39	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.96	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
67-63-0	**Isopropanol**	9.7		ug/m³	1.3	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.37	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.32	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-09-2	Methylene chloride	ND		ug/m³	1.9	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
91-20-3	* Naphthalene	ND		ug/m³	0.94	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
142-82-5	**n-Heptane**	2.8		ug/m³	0.37	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
110-54-3	**n-Hexane**	1.3		ug/m³	0.32	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
95-47-6	**o-Xylene**	5.5		ug/m³	0.39	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
179601-23-1	**p- & m- Xylenes**	21		ug/m³	0.78	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
622-96-8	*** p-Ethyltoluene**	1.2		ug/m³	0.44	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
115-07-1	* Propylene	ND		ug/m³	0.15	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
100-42-5	Styrene	ND		ug/m³	0.38	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
127-18-4	**Tetrachloroethylene**	0.79		ug/m³	0.61	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.53	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
108-88-3	**Toluene**	24		ug/m³	0.34	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.36	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.41	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
79-01-6	**Trichloroethylene**	0.24		ug/m³	0.12	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.3		ug/m³	0.51	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.32	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.39	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.12	0.9	EPA TO-15	04/17/2025 07:45	04/17/2025 22:40	YR
74-97-5	*Internal Standard: Bromochloromethan*	*102 %*			*60-140*					
540-36-3	*Internal Standard: ISTD: 1,4-Difluorob*	*96.0 %*			*60-140*					
3114-55-4	*Internal Standard: ISTD: d5-Chloroben*	*97.4 %*			*60-140*					

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232107.D
Acq On : 17 Apr 2025 10:40 pm
Operator : YR
Sample : 25C1814-01
Misc : QBTO2040525A 0.533X
ALS Vial : 22 Sample Multiplier: 0.9

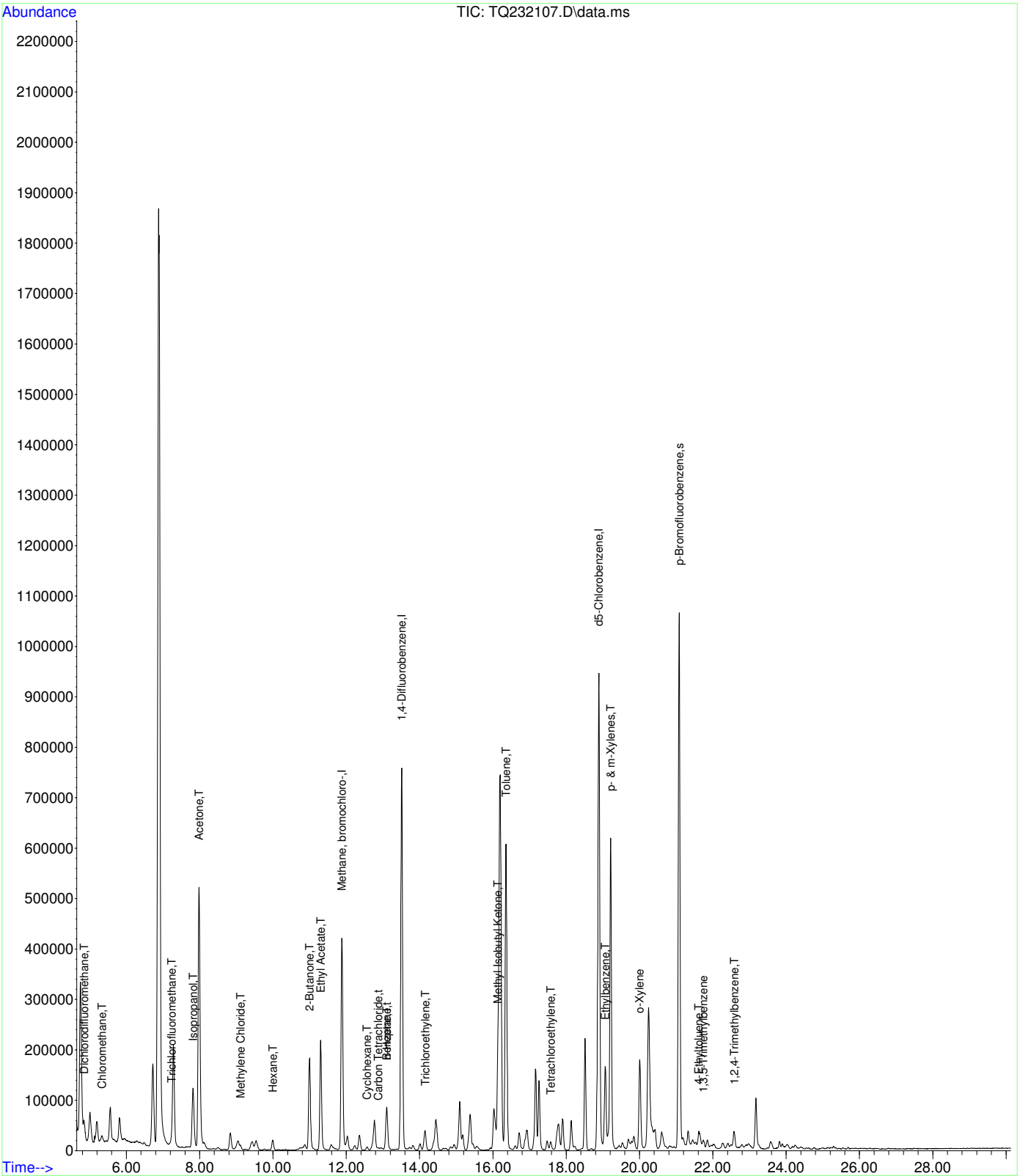
Quant Time: Apr 18 06:05:20 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

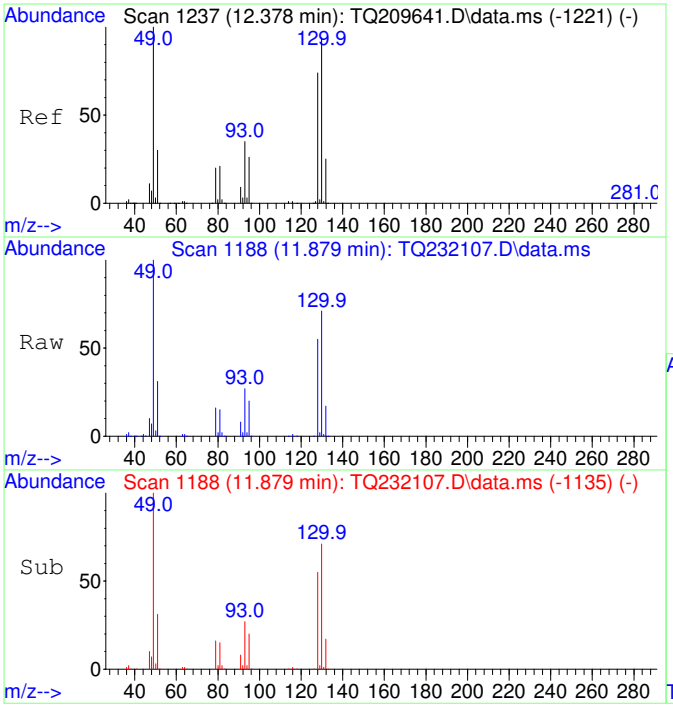
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.879	49	371216	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1119176	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	984233	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.085	95	728720	9.74	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	4.844	85	40476	0.57	ppbv	#	97
5) Chloromethane	5.332	50	15728	0.72	ppbv		94
11) Trichlorofluoromethane	7.234	101	18725	0.25	ppbv		98
12) Isopropanol	7.819	45	268987	4.39	ppbv		100
14) Acetone	7.984	43	1252944	24.33	ppbv		95
18) Methylene Chloride	9.111	49	8497	0.26	ppbv		95
23) Hexane	9.995	57	17117	0.41	ppbv		96
26) 2-Butanone	11.001	43	414070	6.86	ppbv		97
27) Ethyl Acetate	11.300	43	429614	5.96	ppbv	#	45
32) Cyclohexane	12.562	56	5922	0.12	ppbv		94
34) Carbon Tetrachloride	12.873	117	3950	0.06	ppbv		98
36) Benzene	13.099	78	59486	0.57	ppbv	#	84
37) n-Heptane	13.105	43	43194	0.76	ppbv	#	98
39) Trichloroethylene	14.159	95	2056	0.05	ppbv	#	79
44) Methyl Isobutyl Ketone	16.128	43	145593	1.94	ppbv	#	61
46) Toluene	16.360	91	841526	7.00	ppbv		98
51) Tetrachloroethylene	17.579	166	7584	0.13	ppbv		99
57) Ethylbenzene	19.067	91	235186	1.49	ppbv		99
58) p- & m-Xylenes	19.213	91	647594	5.40	ppbv		98
59) o-Xylene	20.000	91	174122	1.42	ppbv		99
66) 4-Ethyltoluene	21.615	105	42892	0.27	ppbv	#	95
67) 1,3,5-Trimethylbenzene	21.743	105	15604	0.12	ppbv	#	95
69) 1,2,4-Trimethylbenzene	22.584	105	45788	0.34	ppbv		94

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

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232107.D
Acq On : 17 Apr 2025 10:40 pm
Operator : YR
Sample : 25C1814-01
Misc : QBTO2040525A 0.533X
ALS Vial : 22 Sample Multiplier: 0.9

Quant Time: Apr 18 06:05:20 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

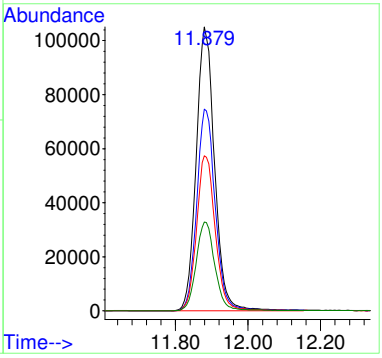


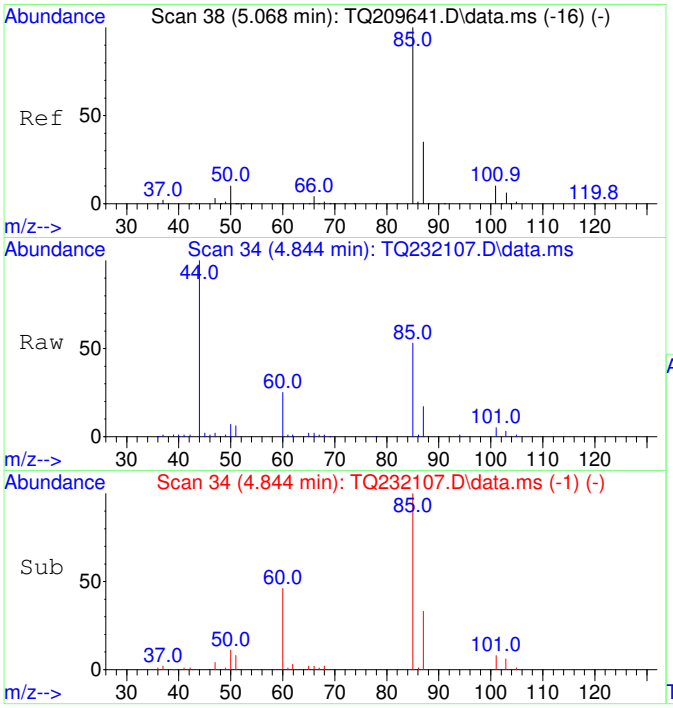


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 11.879 min Scan# 1188
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 49 Resp: 371216

Ion	Ratio	Lower	Upper
49	100		
130	71.7	48.1	99.9
128	55.7	38.3	79.5
51	32.2	20.3	42.3

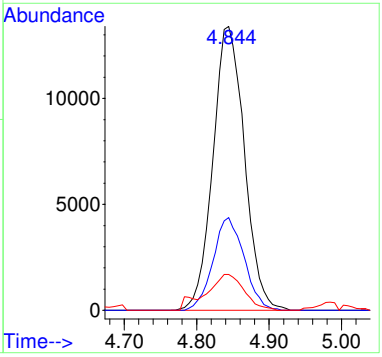


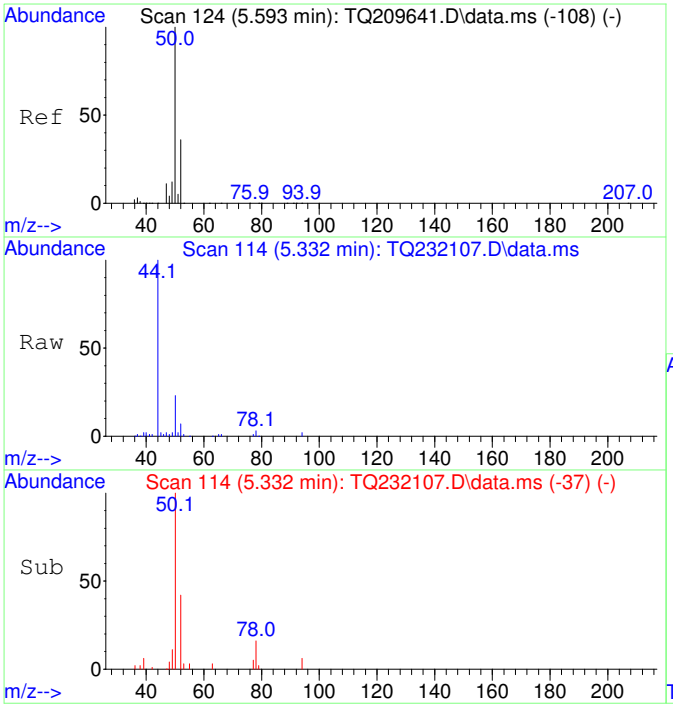


#3
Dichlorodifluoromethane
Concen: 0.57 ppbv
RT: 4.844 min Scan# 34
Delta R.T. -0.030 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 85 Resp: 40476

Ion	Ratio	Lower	Upper
85	100		
87	32.4	20.9	43.5
50	15.3	7.2	15.0#

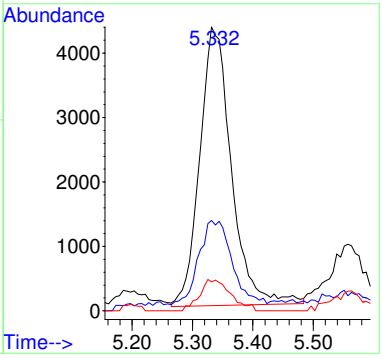


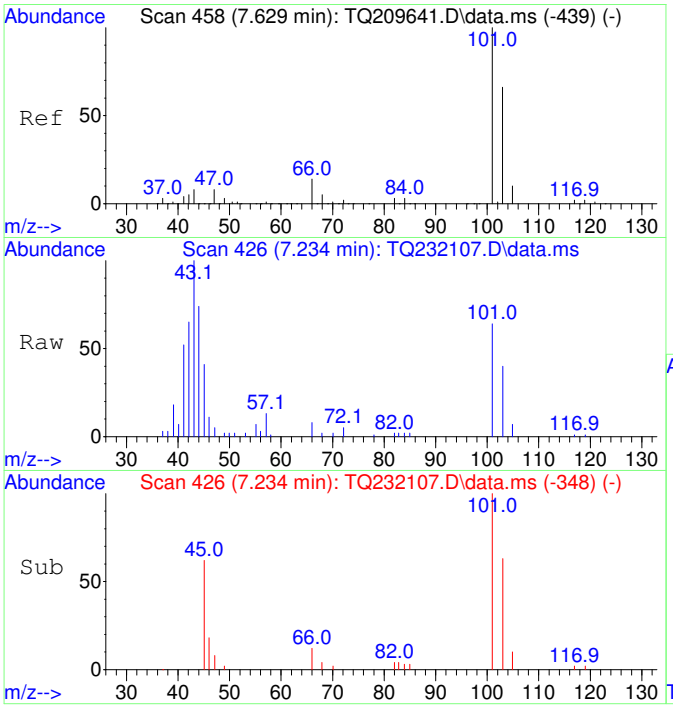


#5
Chloromethane
Concen: 0.72 ppbv
RT: 5.332 min Scan# 114
Delta R.T. -0.030 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 50 Resp: 15728

Ion	Ratio	Lower	Upper
50	100		
52	36.8	0.0	65.2
49	11.0	0.0	19.6

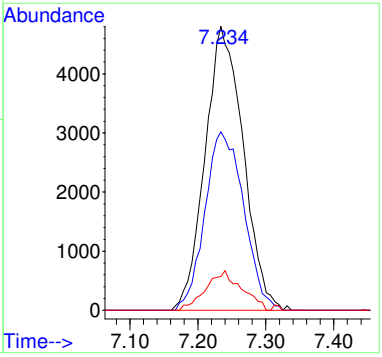


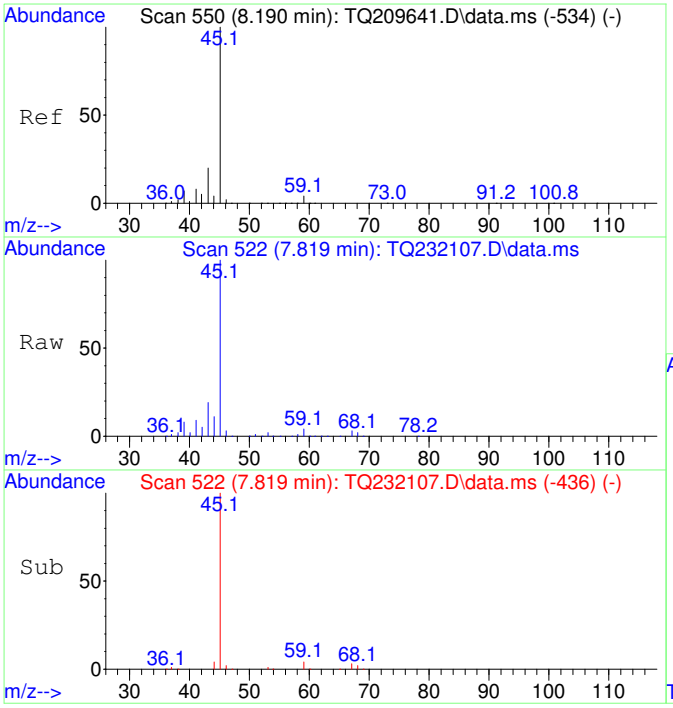


#11
Trichlorofluoromethane
Concen: 0.25 ppbv
RT: 7.234 min Scan# 426
Delta R.T. -0.024 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:101 Resp: 18725

Ion	Ratio	Lower	Upper
101	100		
103	64.0	42.3	87.8
66	13.4	7.8	16.2

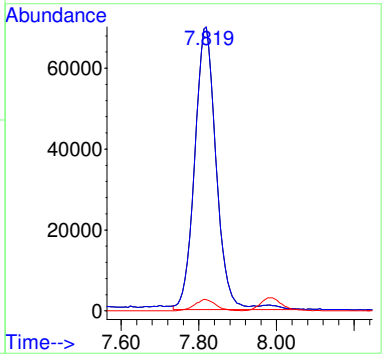


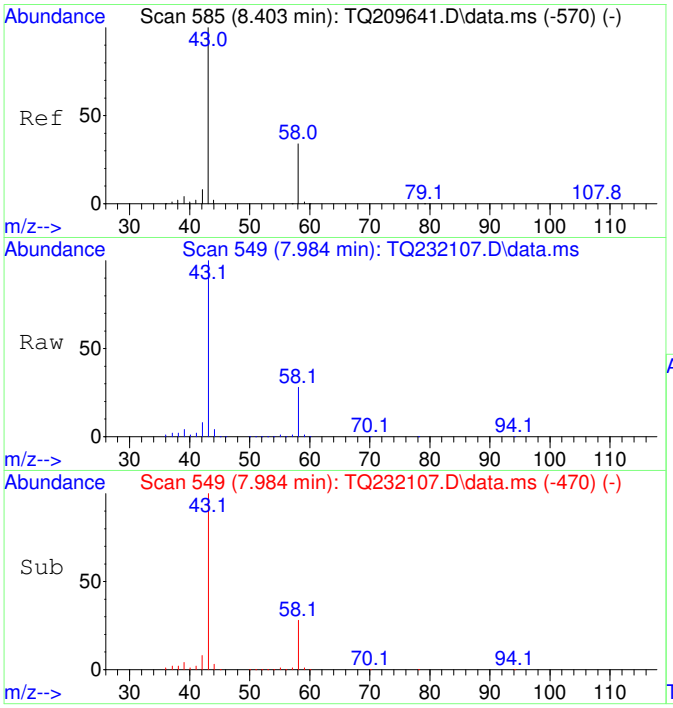


#12
Isopropanol
Concen: 4.39 ppbv
RT: 7.819 min Scan# 522
Delta R.T. 0.024 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 45 Resp: 268987

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	4.0	0.0	10.0

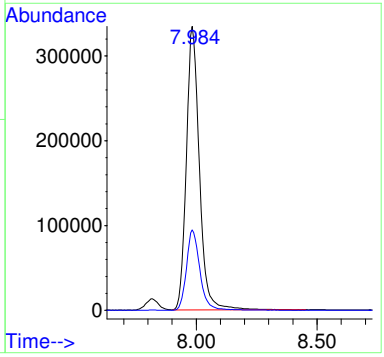


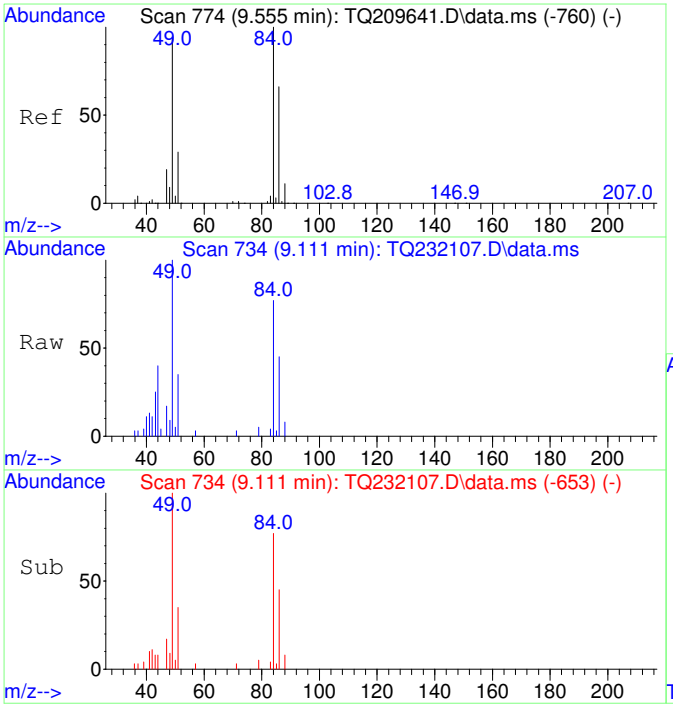


#14
Acetone
Concen: 24.33 ppbv
RT: 7.984 min Scan# 549
Delta R.T. -0.018 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 43 Resp: 1252944

Ion	Ratio	Lower	Upper
43	100		
58	29.3	20.9	43.3

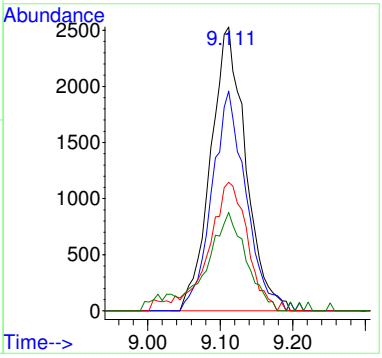


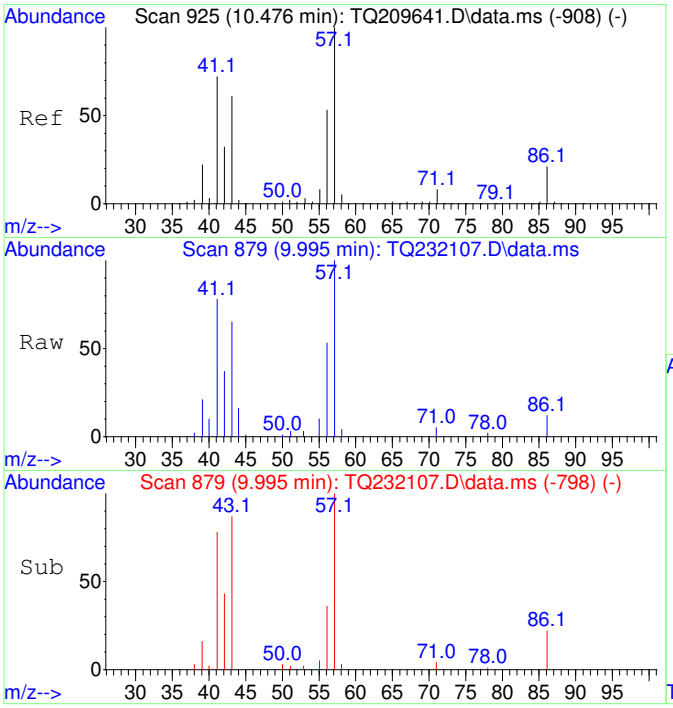


#18
Methylene Chloride
Concen: 0.26 ppbv
RT: 9.111 min Scan# 734
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 49 Resp: 8497

Ion	Ratio	Lower	Upper
49	100		
84	75.3	49.9	103.5
86	49.7	31.8	66.0
51	41.7	20.2	41.9

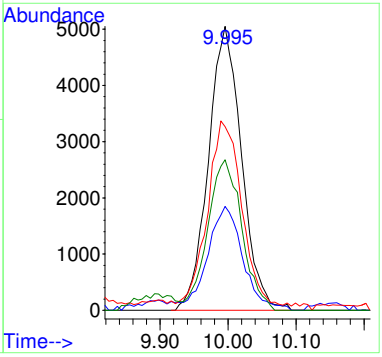


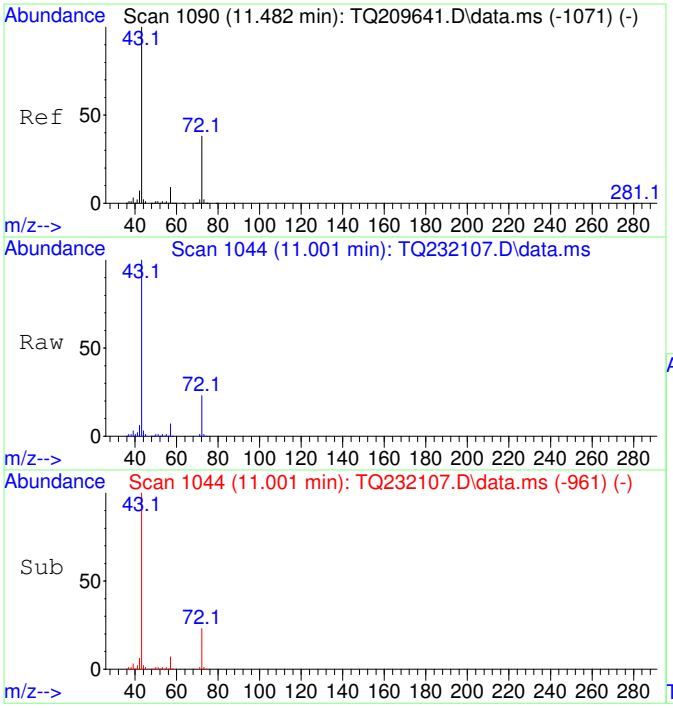


#23
Hexane
Concen: 0.41 ppbv
RT: 9.995 min Scan# 879
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 57 Resp: 17117

Ion	Ratio	Lower	Upper
57	100		
42	38.8	21.6	45.0
43	65.0	42.0	87.2
56	54.9	33.3	69.1

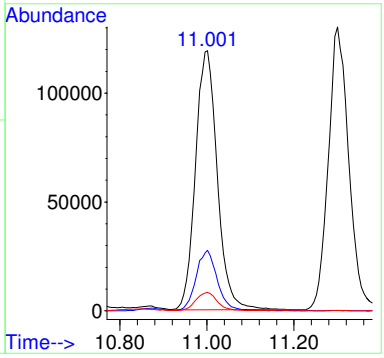


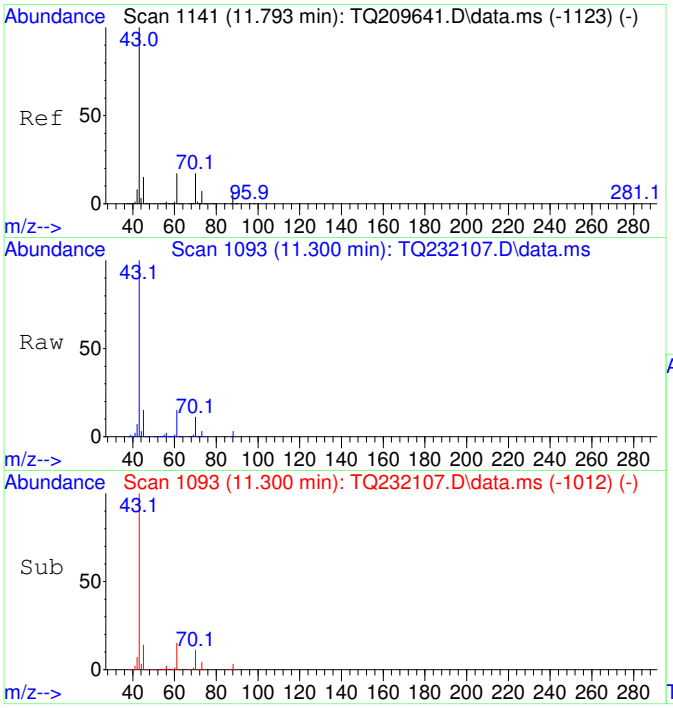


#26
2-Butanone
Concen: 6.86 ppbv
RT: 11.001 min Scan# 1044
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 43 Resp: 414070

Ion	Ratio	Lower	Upper
43	100		
72	22.8	16.1	33.5
57	7.3	4.9	10.3

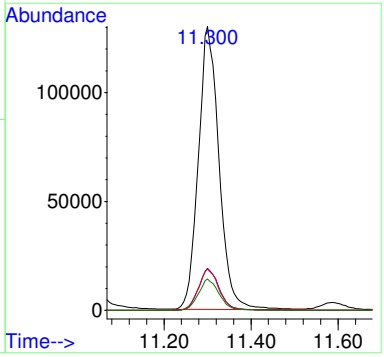


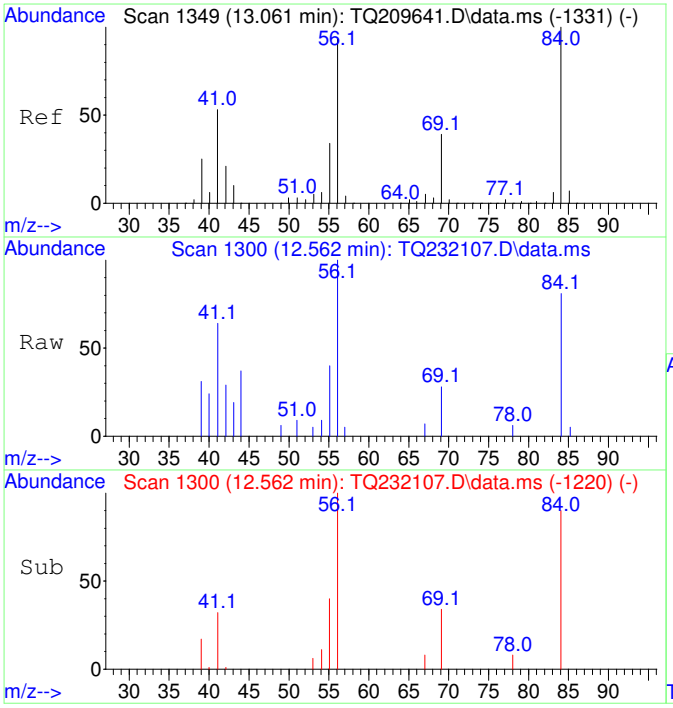


#27
Ethyl Acetate
Concen: 5.96 ppbv
RT: 11.300 min Scan# 1093
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 43 Resp: 429614

Ion	Ratio	Lower	Upper
43	100		
61	14.9	51.4	106.8#
45	14.5	9.4	19.6
70	11.0	7.5	15.5

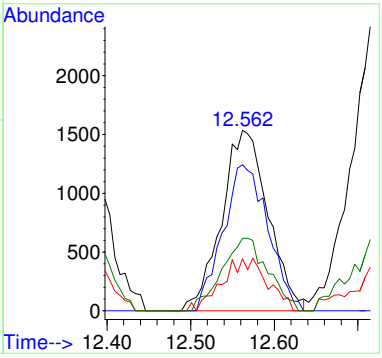


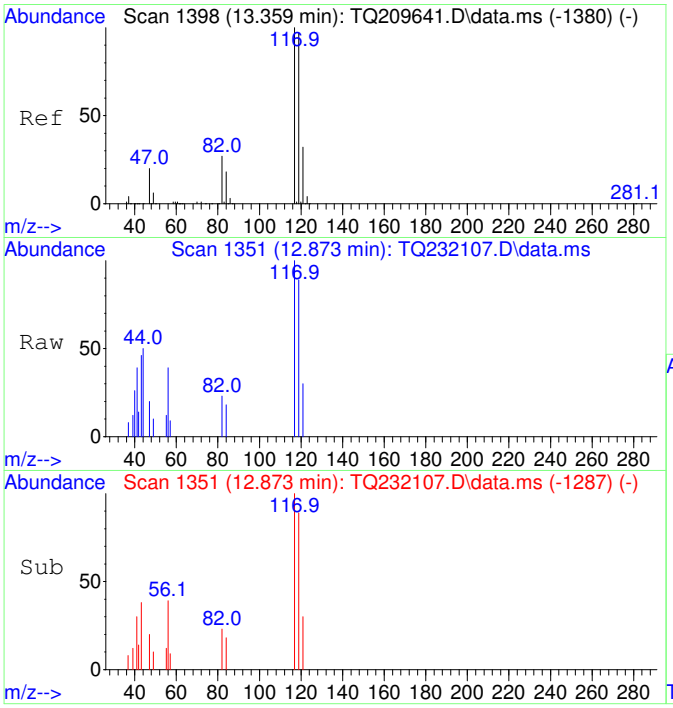


#32
Cyclohexane
Concen: 0.12 ppbv
RT: 12.562 min Scan# 1300
Delta R.T. -0.012 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 56 Resp: 5922

Ion	Ratio	Lower	Upper
56	100		
84	78.3	54.1	112.3
42	28.2	15.3	31.7
55	39.8	23.5	48.7

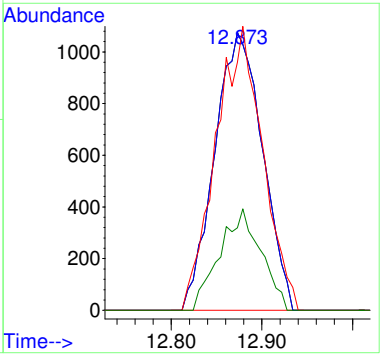


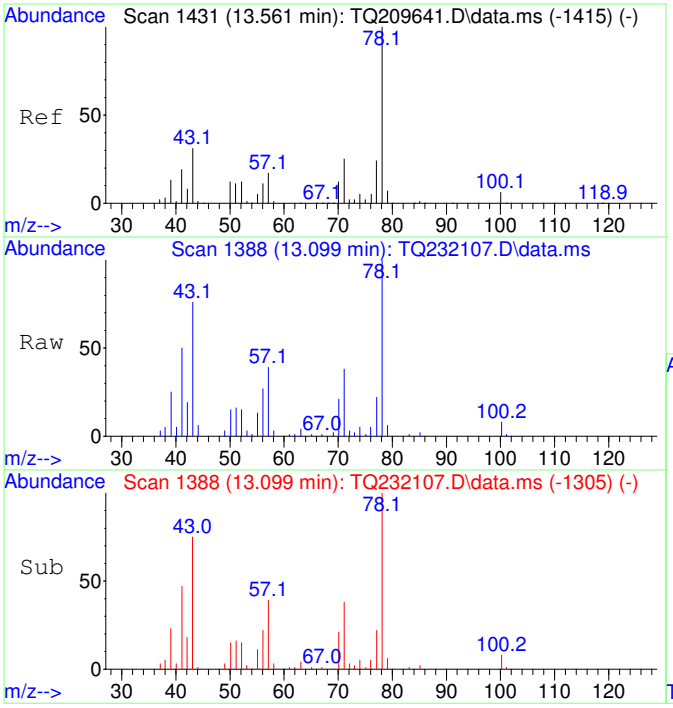


#34
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 12.873 min Scan# 1351
Delta R.T. -0.012 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:117 Resp: 3950

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	99.9	76.9	115.3
121	31.4	21.7	40.3

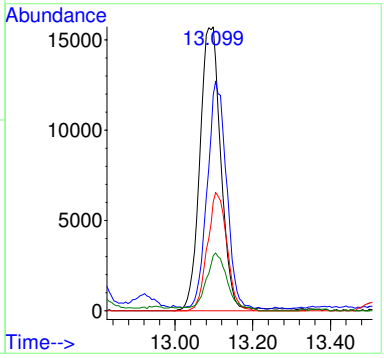


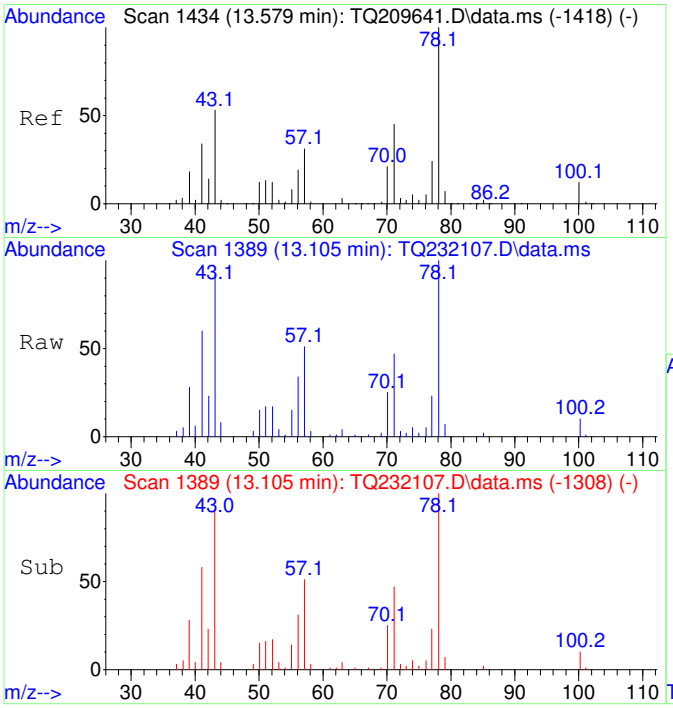


#36
Benzene
Concen: 0.57 ppbv
RT: 13.099 min Scan# 1388
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 78 Resp: 59486

Ion	Ratio	Lower	Upper
78	100		
43	72.7	37.5	77.9
71	38.5	22.0	45.8
42	20.4	8.8	18.4#

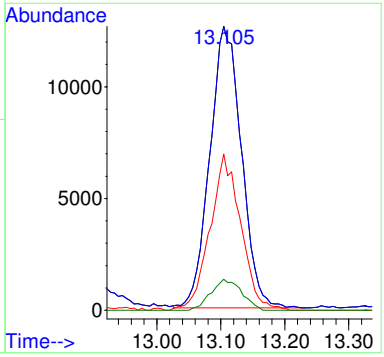


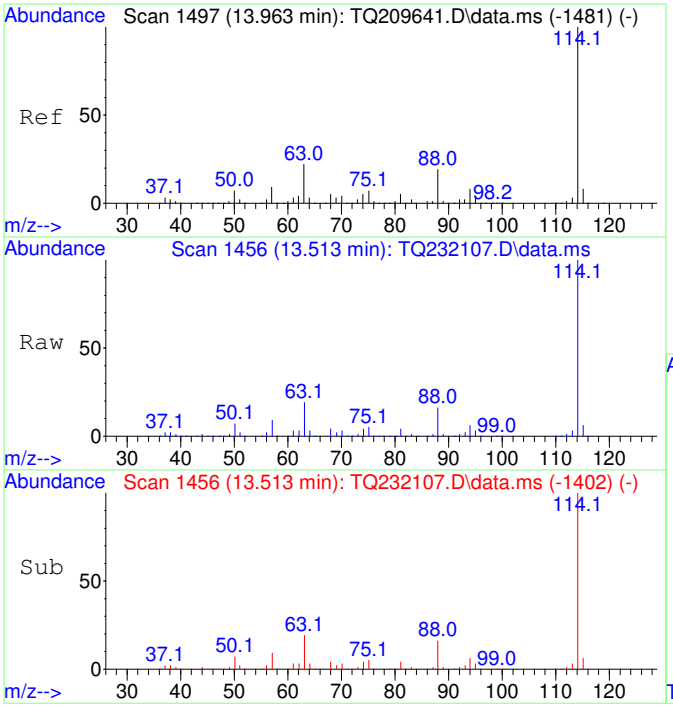


#37
n-Heptane
Concen: 0.76 ppbv
RT: 13.105 min Scan# 1389
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 43 Resp: 43194

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
57	54.0	42.6	64.0
100	10.7	13.3	19.9#

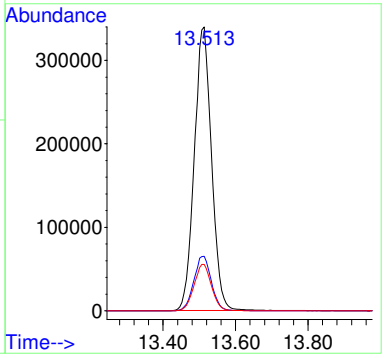


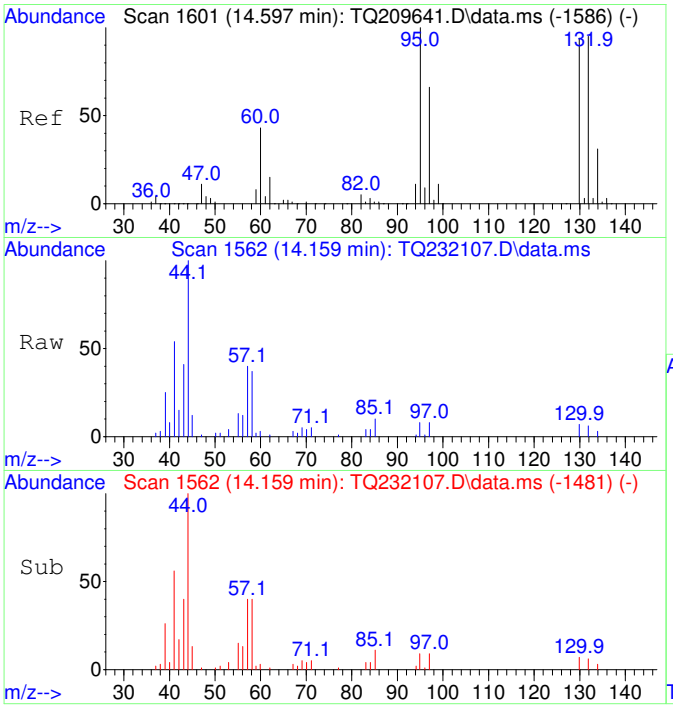


#38
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.513 min Scan# 1456
Delta R.T. 0.000 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:114 Resp: 1119176

Ion	Ratio	Lower	Upper
114	100		
63	19.7	12.9	26.9
88	16.7	10.7	22.3

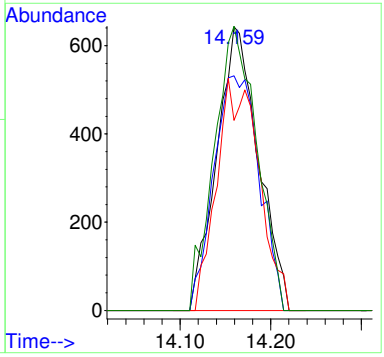


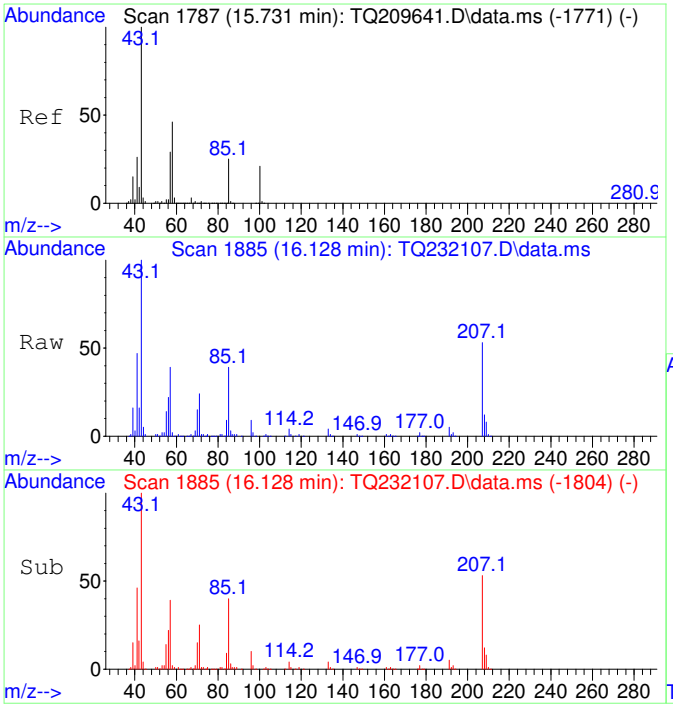


#39
Trichloroethylene
Concen: 0.05 ppbv
RT: 14.159 min Scan# 1562
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 95 Resp: 2056

Ion	Ratio	Lower	Upper
95	100		
130	90.5	66.0	137.0
132	82.9	63.3	131.5
97	102.3	41.9	87.1#

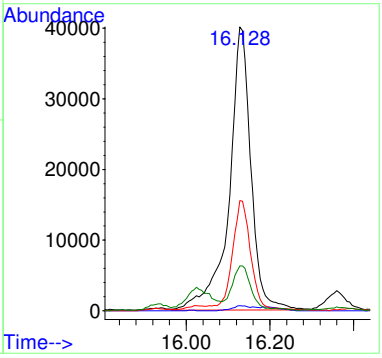


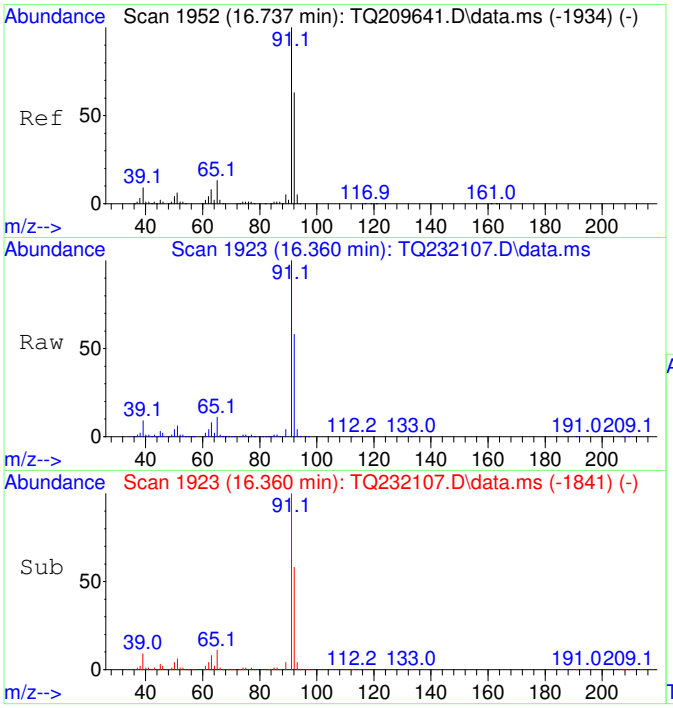


#44
Methyl Isobutyl Ketone
Concen: 1.94 ppbv
RT: 16.128 min Scan# 1885
Delta R.T. -0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 43 Resp: 145593

Ion	Ratio	Lower	Upper
43	100		
58	3.0	25.1	52.1#
57	33.7	15.5	32.3#
42	14.4	5.0	15.0

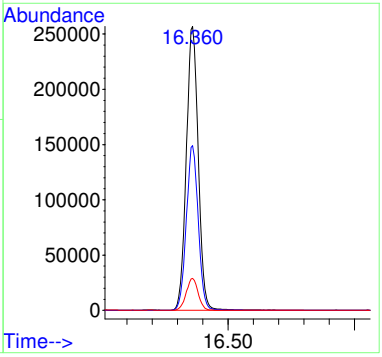


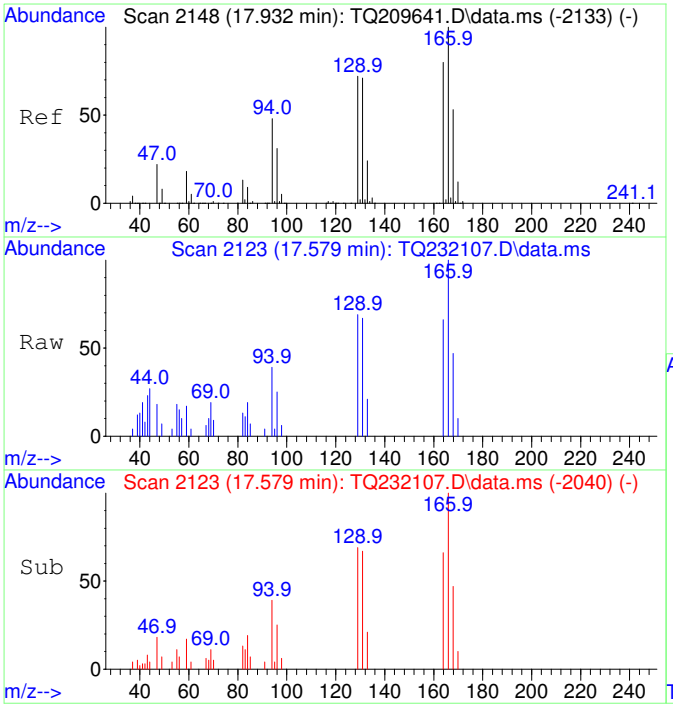


#46
Toluene
Concen: 7.00 ppbv
RT: 16.360 min Scan# 1923
Delta R.T. 0.000 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 91 Resp: 841526

Ion	Ratio	Lower	Upper
91	100		
92	58.1	38.7	80.3
65	11.3	7.5	15.5

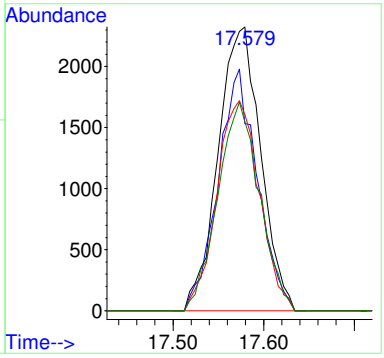


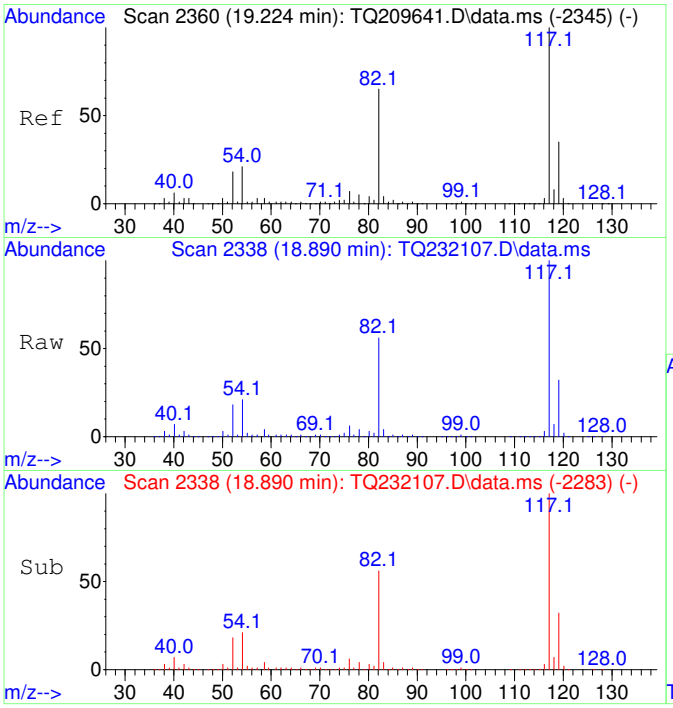


#51
Tetrachloroethylene
Concen: 0.13 ppbv
RT: 17.579 min Scan# 2123
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:166 Resp: 7584

Ion	Ratio	Lower	Upper
166	100		
164	78.9	51.0	106.0
129	73.9	48.1	99.9
131	72.2	46.3	96.3

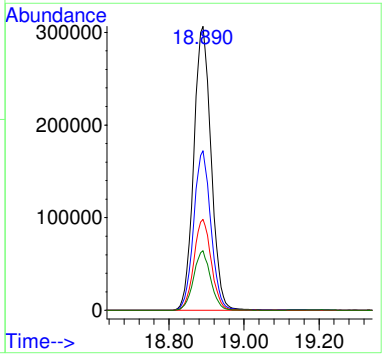


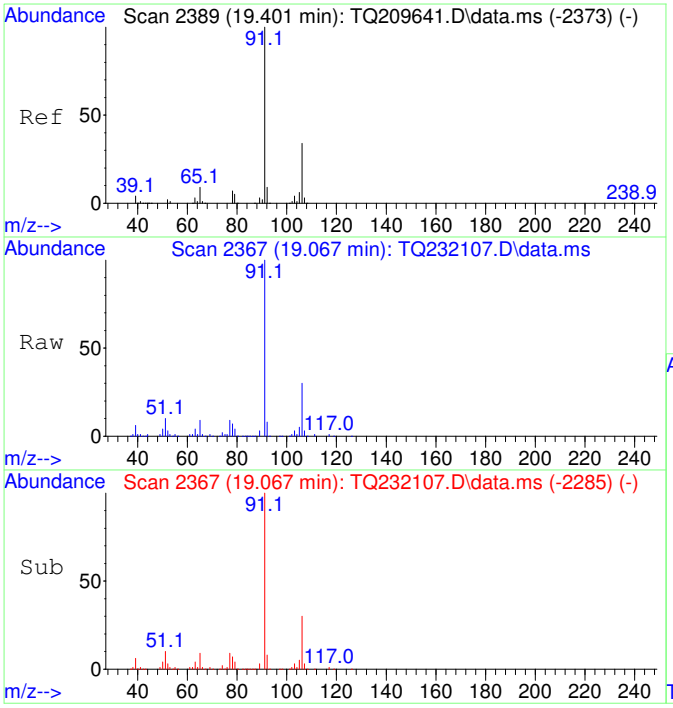


#54
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.890 min Scan# 2338
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:117 Resp: 984233

Ion	Ratio	Lower	Upper
117	100		
82	56.0	37.1	77.1
119	32.2	22.1	45.9
54	20.8	13.8	28.6

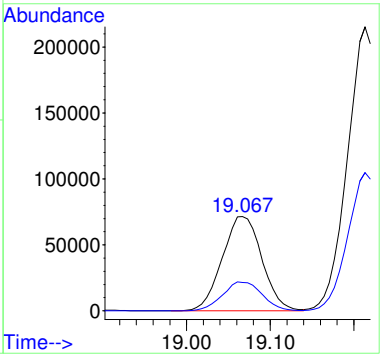


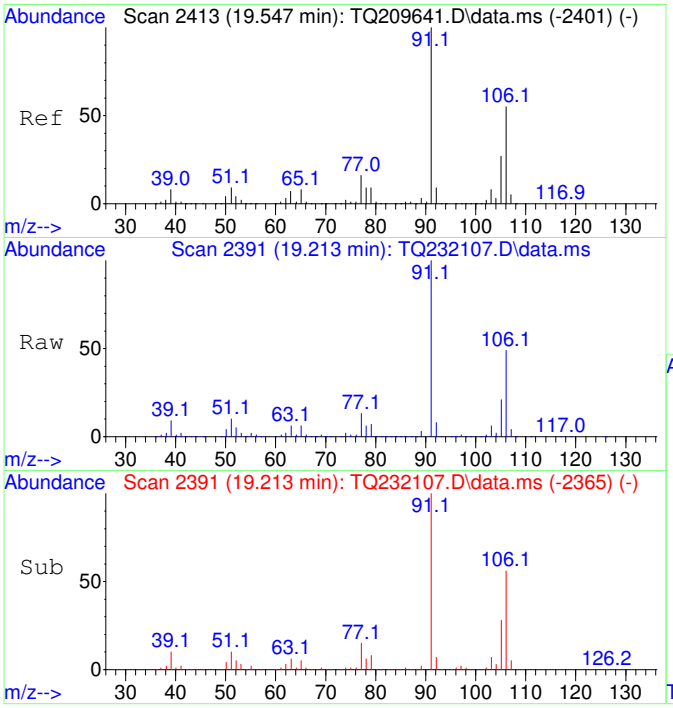


#57
Ethylbenzene
Concen: 1.49 ppbv
RT: 19.067 min Scan# 2367
Delta R.T. 0.000 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 91 Resp: 235186

Ion	Ratio	Lower	Upper
91	100		
106	30.8	20.5	42.7

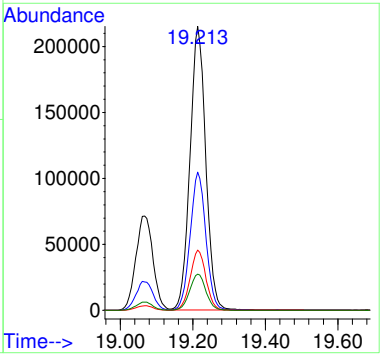


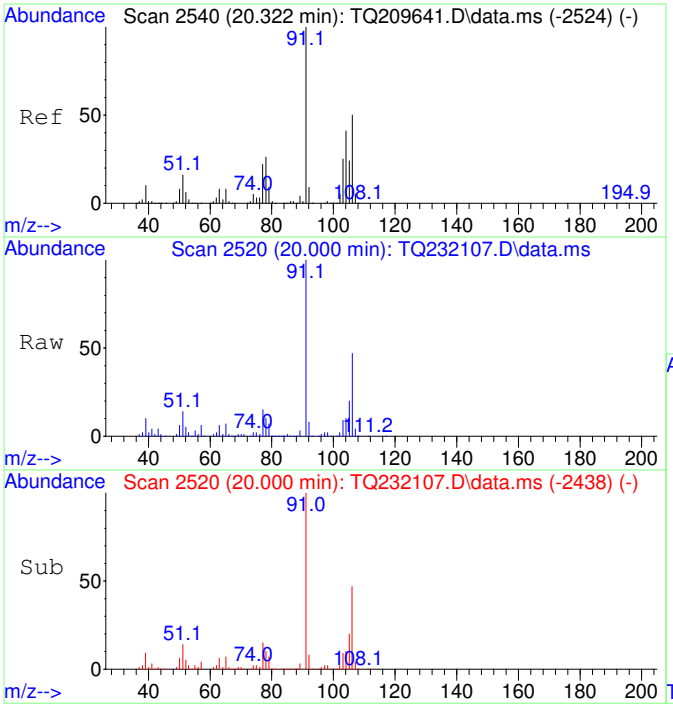


#58
p- & m-Xylenes
Concen: 5.40 ppbv
RT: 19.213 min Scan# 2391
Delta R.T. 0.000 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 91 Resp: 647594

Ion	Ratio	Lower	Upper
91	100		
106	48.9	32.6	67.8
105	21.3	14.5	30.1
77	13.3	8.5	17.7

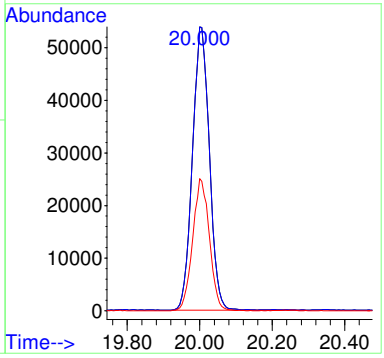


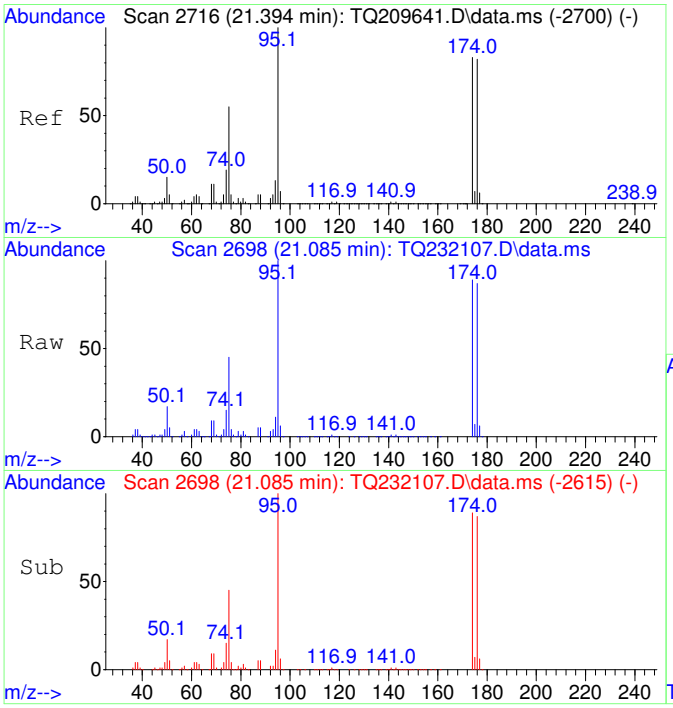


#59
o-Xylene
Concen: 1.42 ppbv
RT: 20.000 min Scan# 2520
Delta R.T. 0.000 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 91 Resp: 174122

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	46.2	38.2	57.2

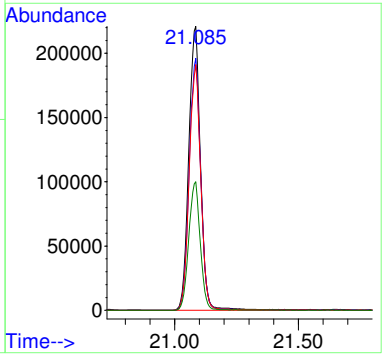


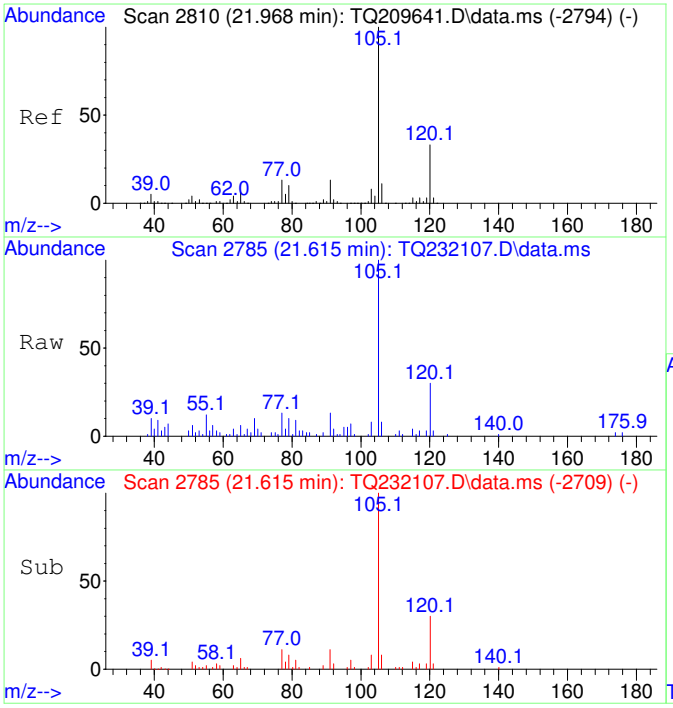


#65
p-Bromofluorobenzene
Concen: 9.74 ppbv
RT: 21.085 min Scan# 2698
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion: 95 Resp: 728720

Ion	Ratio	Lower	Upper
95	100		
174	88.5	53.2	110.6
176	86.0	51.6	107.2
75	45.0	30.7	63.7

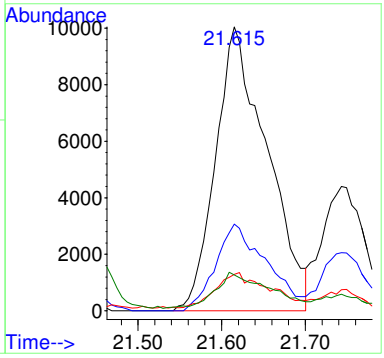


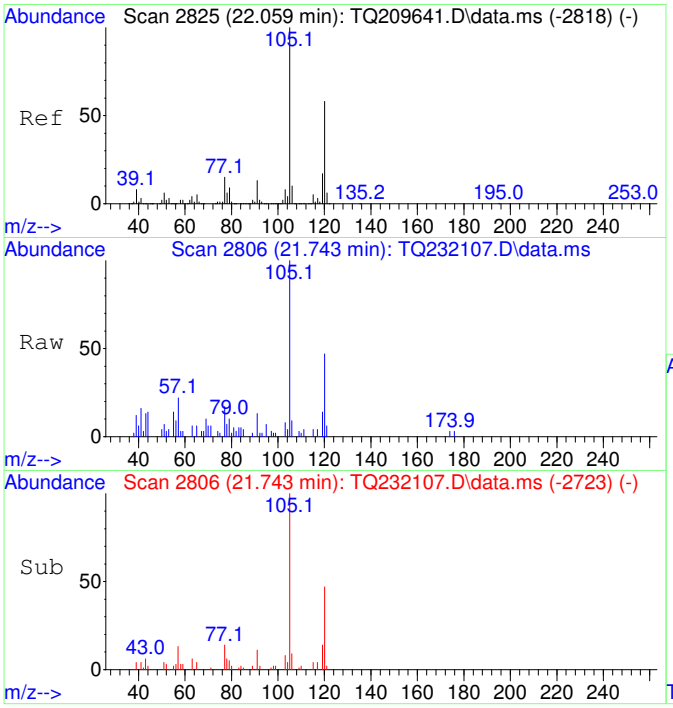


#66
4-Ethyltoluene
Concen: 0.27 ppbv
RT: 21.615 min Scan# 2785
Delta R.T. -0.037 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:105 Resp: 42892

Ion	Ratio	Lower	Upper
105	100		
120	30.4	19.6	40.8
77	14.8	7.3	15.3
91	15.7	7.1	14.7#

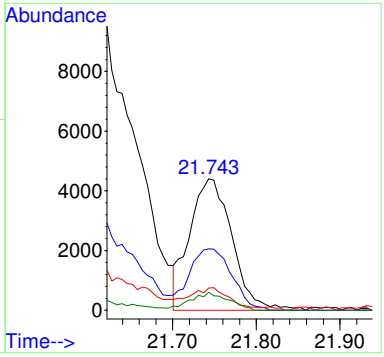


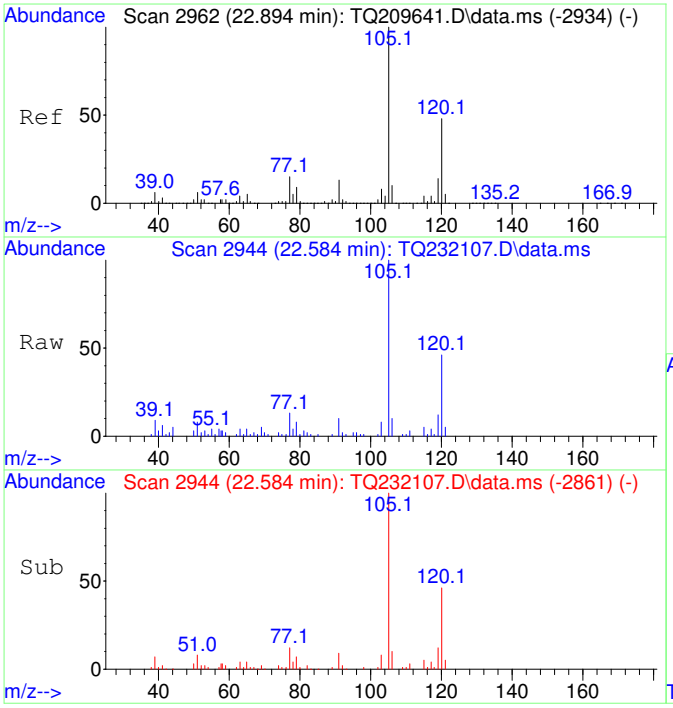


#67
1,3,5-Trimethylbenzene
Concen: 0.12 ppbv
RT: 21.743 min Scan# 2806
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:105 Resp: 15604

Ion	Ratio	Lower	Upper
105	100		
120	46.5	39.2	58.8
77	17.5	10.1	15.1#
119	12.3	6.1	18.3

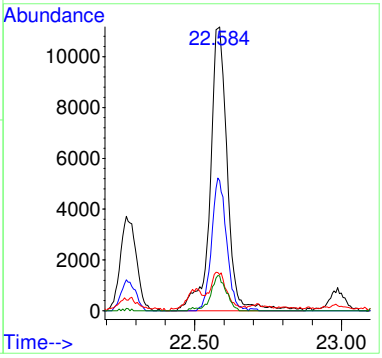




#69
1,2,4-Trimethylbenzene
Concen: 0.34 ppbv
RT: 22.584 min Scan# 2944
Delta R.T. 0.006 min
Lab File: TQ232107.D
Acq: 17 Apr 2025 10:40 pm

Tgt Ion:105 Resp: 45788

Ion	Ratio	Lower	Upper
105	100		
120	40.8	30.2	62.6
77	12.9	8.1	16.9
119	10.7	7.8	16.2



Sample Information

Client Sample ID: **IA-2 20250328** **York Sample ID:** **25C1814-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.58	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.58	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.65	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.46	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.63	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
95-63-6	**1,2,4-Trimethylbenzene**	1.8		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.65	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.34	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.59	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
108-67-8	**1,3,5-Trimethylbenzene**	0.71		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
106-99-0	1,3-Butadiene	ND		ug/m³	0.56	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.51	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
123-91-1	1,4-Dioxane	ND		ug/m³	0.61	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.20	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
78-93-3	**2-Butanone**	37		ug/m³	0.25	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.70	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.3	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
108-10-1	**4-Methyl-2-pentanone**	16		ug/m³	0.35	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
67-64-1	**Acetone**	85		ug/m³	1.6	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
107-13-1	Acrylonitrile	ND		ug/m³	2.4	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
71-43-2	**Benzene**	1.2		ug/m³	0.27	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.44	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.57	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-25-2	Bromoform	ND		ug/m³	0.88	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
74-83-9	**Bromomethane**	0.56		ug/m³	0.33	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.27	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
56-23-5	**Carbon tetrachloride**	0.37		ug/m³	0.13	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-00-3	Chloroethane	ND		ug/m³	0.22	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR

Sample Information

Client Sample ID: IA-2 20250328 **York Sample ID: 25C1814-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Indoor Ambient Air	March 28, 2025 3:30 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
74-87-3	**Chloromethane**	1.3		ug/m³	0.18	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.084	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
110-82-7	**Cyclohexane**	0.47		ug/m³	0.29	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.72	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-71-8	**Dichlorodifluoromethane**	2.4		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
141-78-6	*** Ethyl acetate**	13		ug/m³	0.61	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
100-41-4	**Ethyl Benzene**	14		ug/m³	0.37	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.91	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
67-63-0	**Isopropanol**	9.8		ug/m³	1.3	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.35	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.31	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-09-2	Methylene chloride	ND		ug/m³	1.8	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
91-20-3	* Naphthalene	ND		ug/m³	0.89	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
142-82-5	**n-Heptane**	4.6		ug/m³	0.35	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
110-54-3	**n-Hexane**	1.7		ug/m³	0.30	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
95-47-6	**o-Xylene**	12		ug/m³	0.37	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
179601-23-1	**p- & m- Xylenes**	44		ug/m³	0.74	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
622-96-8	*** p-Ethyltoluene**	1.6		ug/m³	0.42	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
115-07-1	* Propylene	ND		ug/m³	0.15	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
100-42-5	Styrene	ND		ug/m³	0.36	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	0.58	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.50	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
108-88-3	**Toluene**	38		ug/m³	0.32	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.34	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.39	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
79-01-6	**Trichloroethylene**	0.14		ug/m³	0.11	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.2		ug/m³	0.48	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.30	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.37	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.11	0.851	EPA TO-15	04/17/2025 07:45	04/17/2025 23:44	YR
74-97-5	*Internal Standard: Bromochloromethan*	*104 %*			*60-140*					
540-36-3	*Internal Standard: ISTD: 1,4-Difluorob*	*98.8 %*			*60-140*					
3114-55-4	*Internal Standard: ISTD: d5-Chloroben*	*101 %*			*60-140*					

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232108.D
Acq On : 17 Apr 2025 11:44 pm
Operator : YR
Sample : 25C1814-02
Misc : QBTO2040525A 0.533X
ALS Vial : 23 Sample Multiplier: 0.851

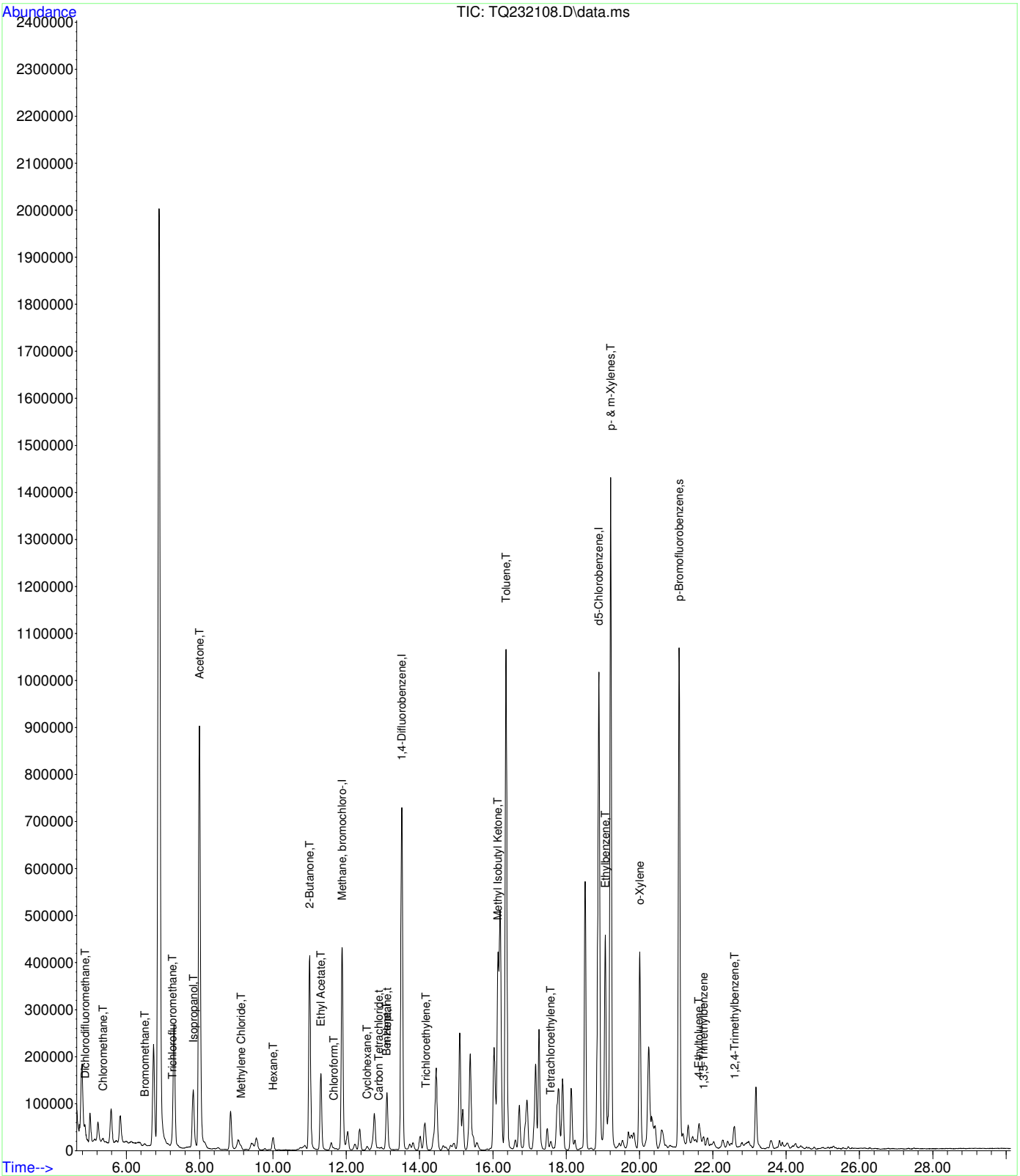
Quant Time: Apr 18 06:05:30 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

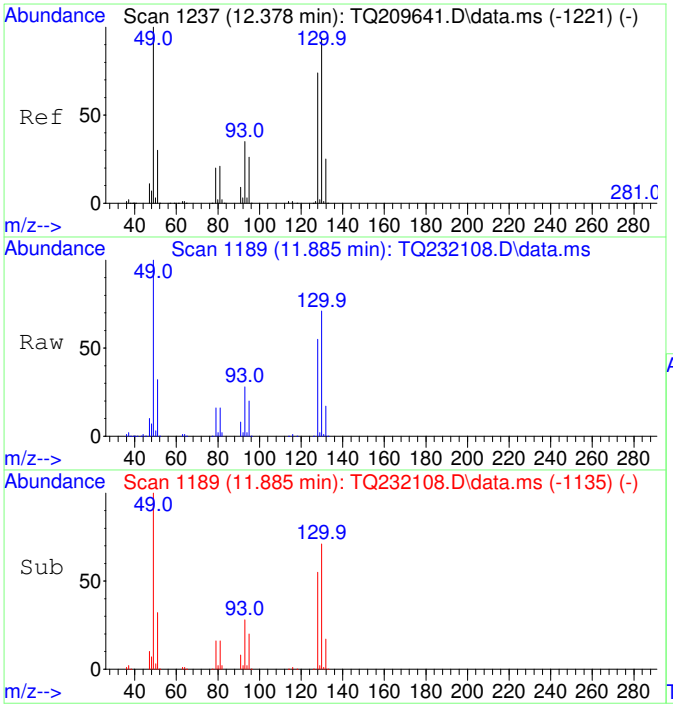
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	378872	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1152807	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1024486	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	734604	9.44	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	4.874	85	41454	0.57	ppbv		97
5) Chloromethane	5.362	50	16378	0.73	ppbv		82
8) Bromomethane	6.502	94	5096	0.17	ppbv	#	79
11) Trichlorofluoromethane	7.252	101	19629	0.26	ppbv		98
12) Isopropanol	7.825	45	291955	4.67	ppbv		100
14) Acetone	7.996	43	2215509	42.15	ppbv		95
18) Methylene Chloride	9.124	49	9299	0.27	ppbv		96
23) Hexane	10.008	57	24133	0.56	ppbv		95
26) 2-Butanone	11.001	43	907949	14.74	ppbv		97
27) Ethyl Acetate	11.306	43	323505	4.40	ppbv	#	45
29) Chloroform	11.654	83	5448	0.08	ppbv	#	94
32) Cyclohexane	12.562	56	7507	0.16	ppbv	#	93
34) Carbon Tetrachloride	12.885	117	4436	0.07	ppbv		99
36) Benzene	13.092	78	46404	0.44	ppbv	#	1
37) n-Heptane	13.111	43	77245	1.32	ppbv	#	98
39) Trichloroethylene	14.171	95	1590	0.03	ppbv	#	47
44) Methyl Isobutyl Ketone	16.128	43	352125	4.56	ppbv	#	59
46) Toluene	16.360	91	1462728	11.82	ppbv		98
51) Tetrachloroethylene	17.573	166	5569	0.09	ppbv		99
57) Ethylbenzene	19.067	91	612387	3.73	ppbv		98
58) p- & m-Xylenes	19.213	91	1502158	12.04	ppbv		98
59) o-Xylene	20.006	91	417312	3.28	ppbv		99
66) 4-Ethyltoluene	21.615	105	66050	0.39	ppbv		97
67) 1,3,5-Trimethylbenzene	21.749	105	23498	0.17	ppbv		97
69) 1,2,4-Trimethylbenzene	22.590	105	58989	0.42	ppbv		98

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

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232108.D
Acq On : 17 Apr 2025 11:44 pm
Operator : YR
Sample : 25C1814-02
Misc : QBTO2040525A 0.533X
ALS Vial : 23 Sample Multiplier: 0.851

Quant Time: Apr 18 06:05:30 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

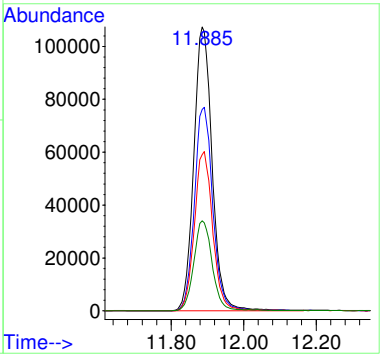


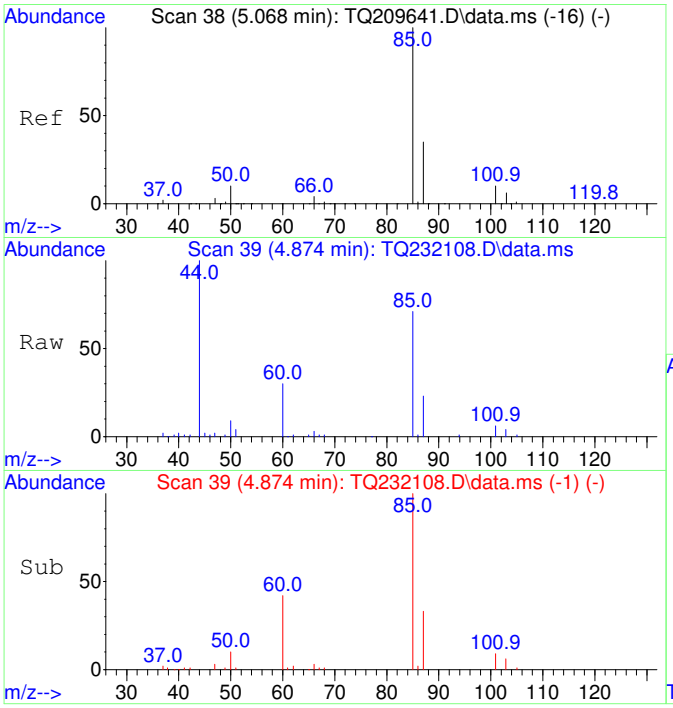


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 11.885 min Scan# 1189
Delta R.T. 0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 49 Resp: 378872

Ion	Ratio	Lower	Upper
49	100		
130	72.2	48.1	99.9
128	56.1	38.3	79.5
51	31.7	20.3	42.3

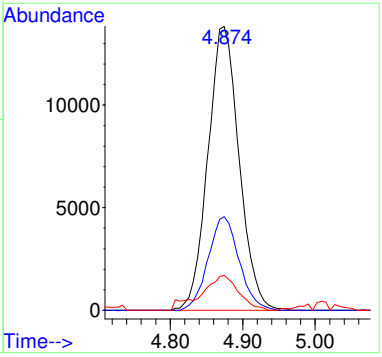


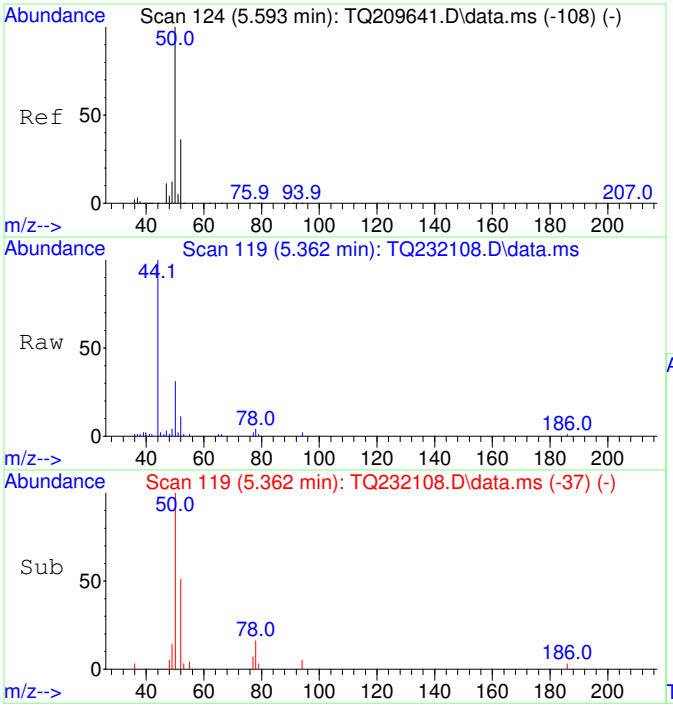


#3
Dichlorodifluoromethane
Concen: 0.57 ppbv
RT: 4.874 min Scan# 39
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 85 Resp: 41454

Ion	Ratio	Lower	Upper
85	100		
87	32.8	20.9	43.5
50	14.7	7.2	15.0

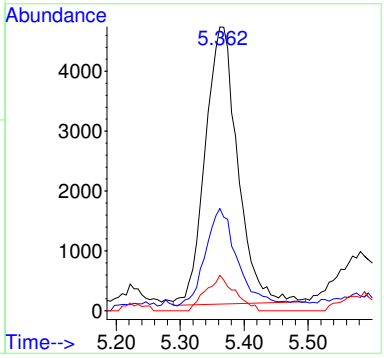


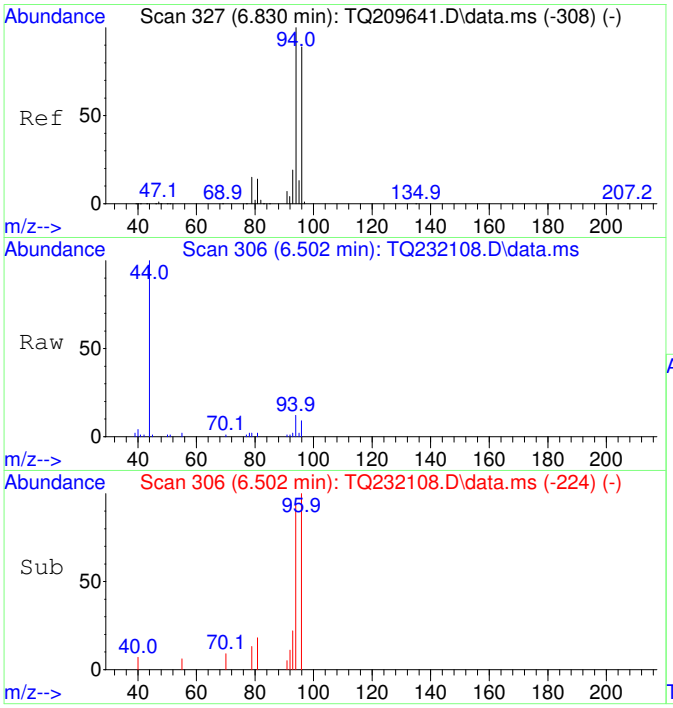


#5
Chloromethane
Concen: 0.73 ppbv
RT: 5.362 min Scan# 119
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 50 Resp: 16378

Ion	Ratio	Lower	Upper
50	100		
52	45.4	0.0	65.2
49	11.3	0.0	19.6

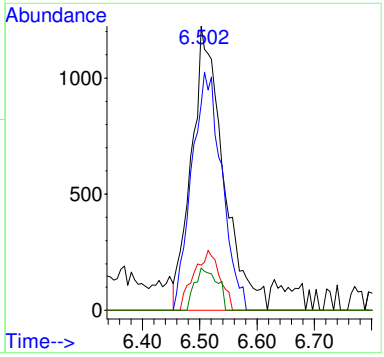


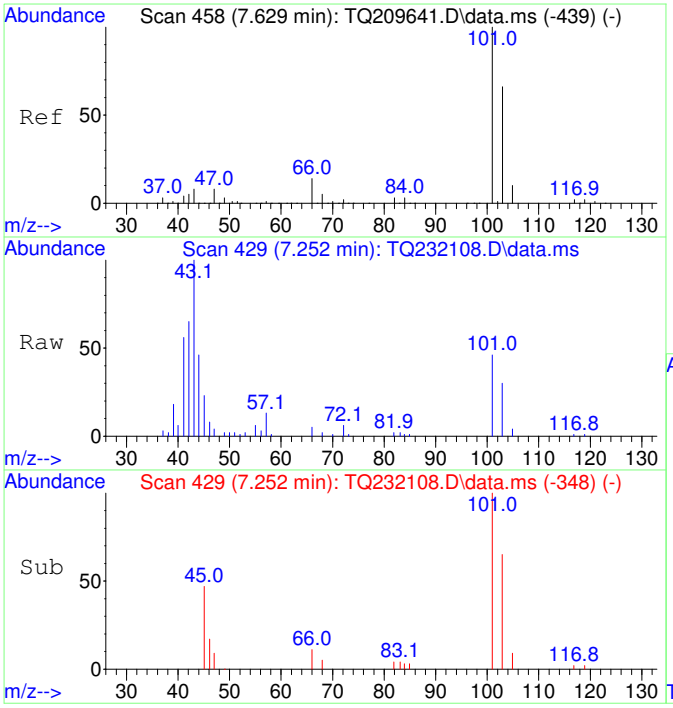


#8
Bromomethane
Concen: 0.17 ppbv
RT: 6.502 min Scan# 306
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 94 Resp: 5096

Ion	Ratio	Lower	Upper
94	100		
96	73.5	61.2	127.0
93	15.9	13.1	27.3
95	0.0	8.8	18.2#

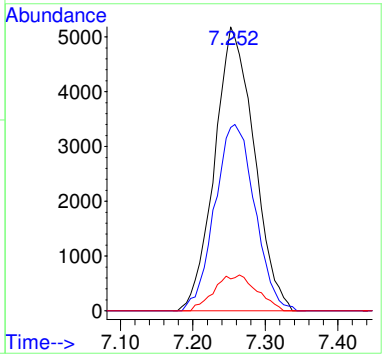


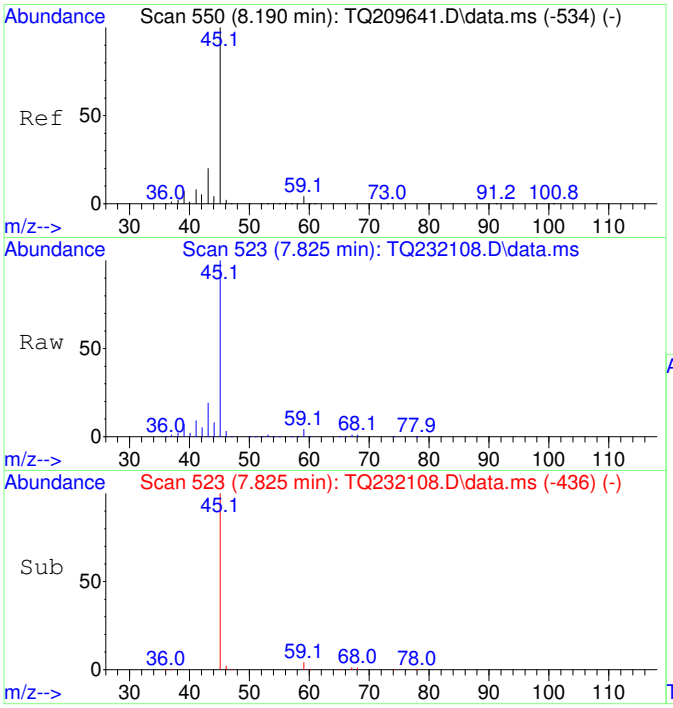


#11
Trichlorofluoromethane
Concen: 0.26 ppbv
RT: 7.252 min Scan# 429
Delta R.T. -0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:101 Resp: 19629

Ion	Ratio	Lower	Upper
101	100		
103	66.6	42.3	87.8
66	13.6	7.8	16.2

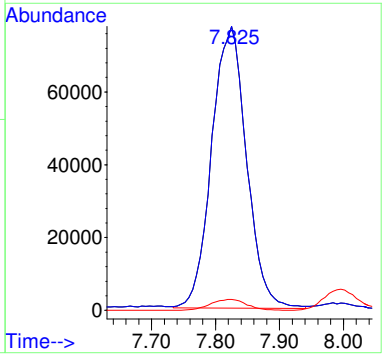


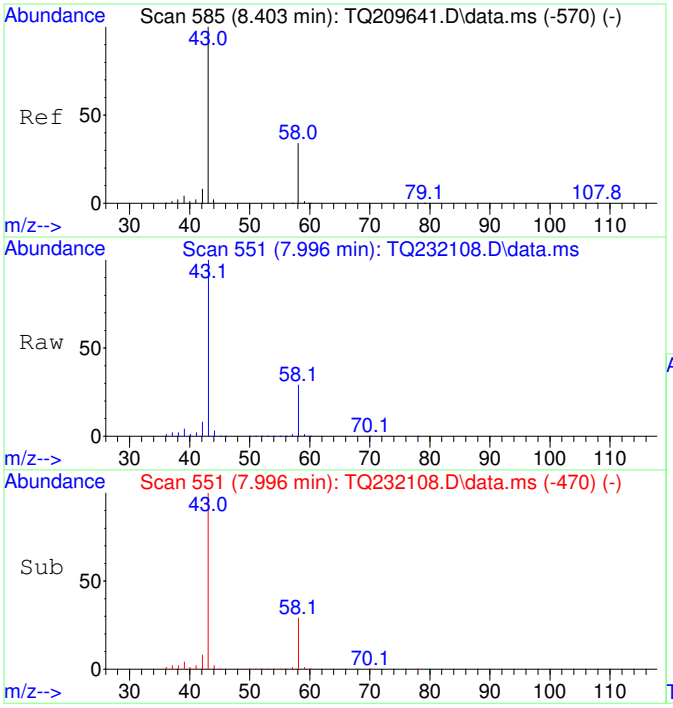


#12
Isopropanol
Concen: 4.67 ppbv
RT: 7.825 min Scan# 523
Delta R.T. 0.030 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 45 Resp: 291955

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	4.1	0.0	10.0

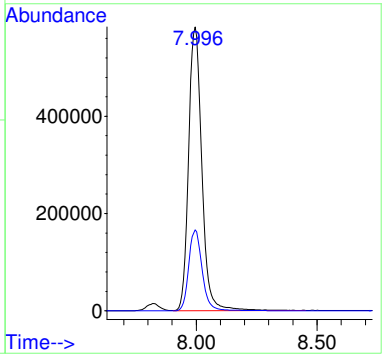


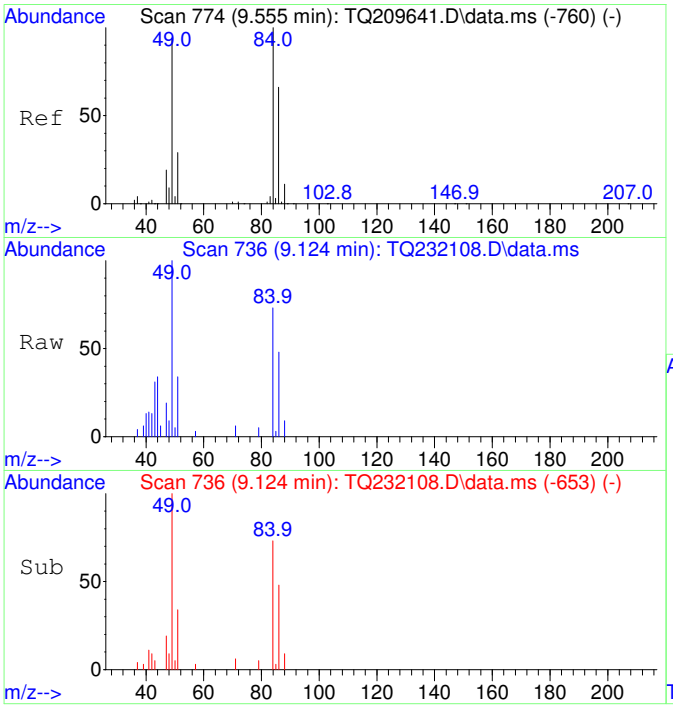


#14
Acetone
Concen: 42.15 ppbv
RT: 7.996 min Scan# 551
Delta R.T. -0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 43 Resp: 2215509

Ion	Ratio	Lower	Upper
43	100		
58	29.2	20.9	43.3

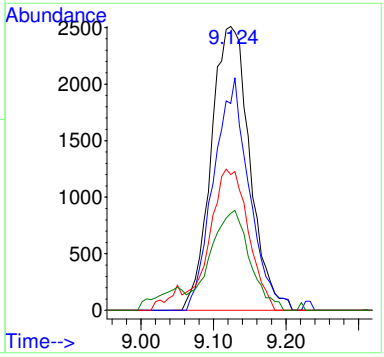


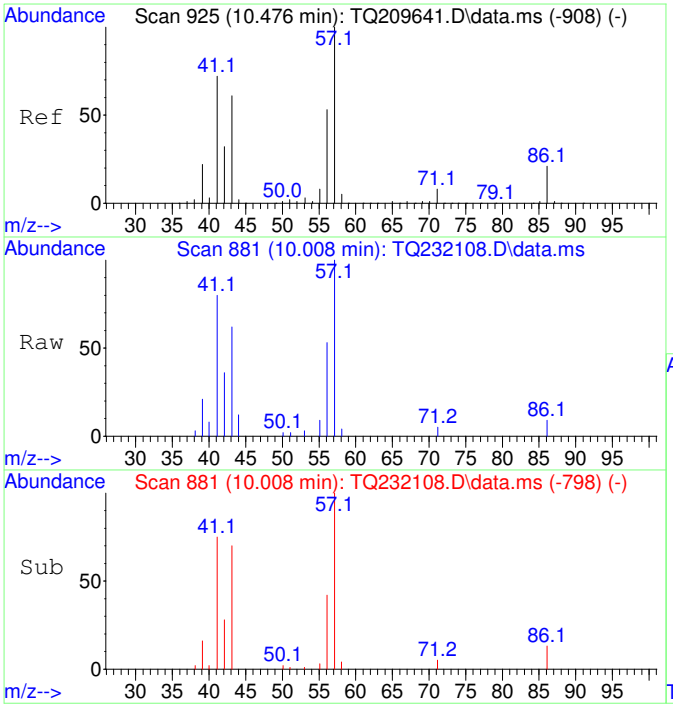


#18
Methylene Chloride
Concen: 0.27 ppbv
RT: 9.124 min Scan# 736
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 49 Resp: 9299

Ion	Ratio	Lower	Upper
49	100		
84	76.2	49.9	103.5
86	53.0	31.8	66.0
51	35.2	20.2	41.9

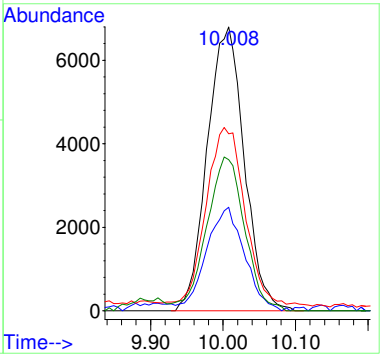


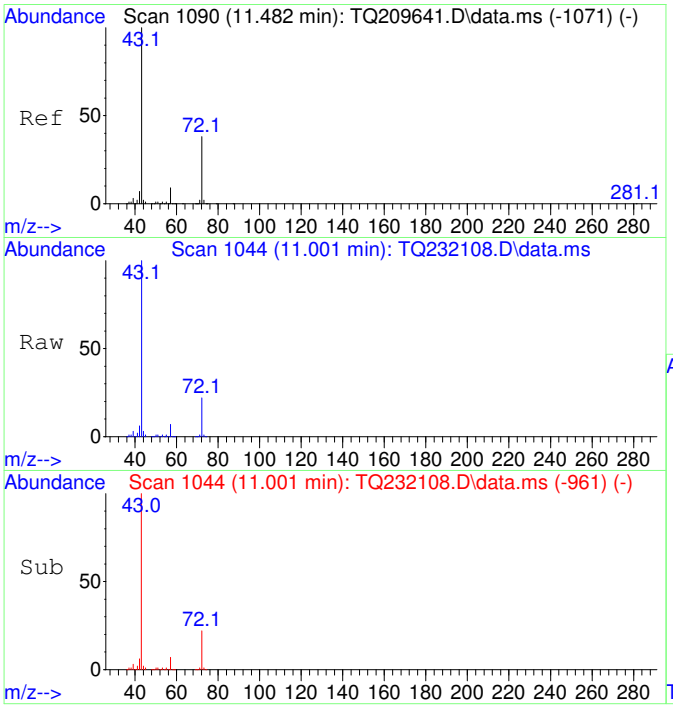


#23
Hexane
Concen: 0.56 ppbv
RT: 10.008 min Scan# 881
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 57 Resp: 24133

Ion	Ratio	Lower	Upper
57	100		
42	35.0	21.6	45.0
43	67.8	42.0	87.2
56	55.5	33.3	69.1

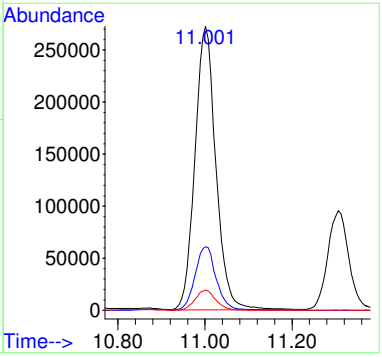


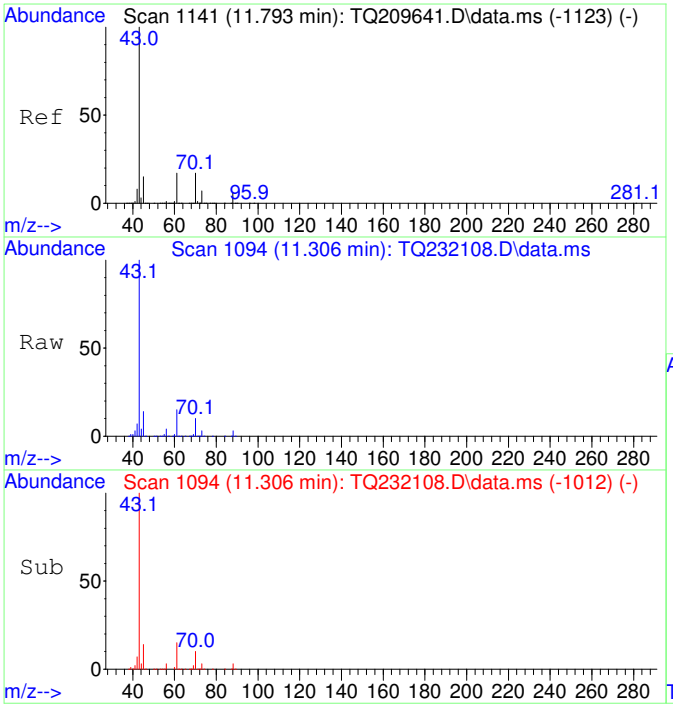


#26
2-Butanone
Concen: 14.74 ppbv
RT: 11.001 min Scan# 1044
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 43 Resp: 907949

Ion	Ratio	Lower	Upper
43	100		
72	23.1	16.1	33.5
57	7.3	4.9	10.3

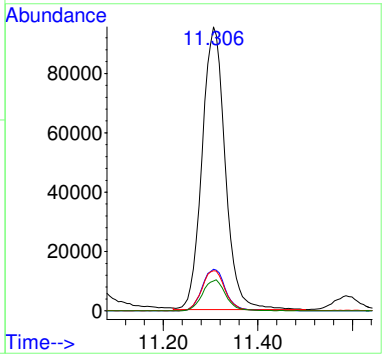


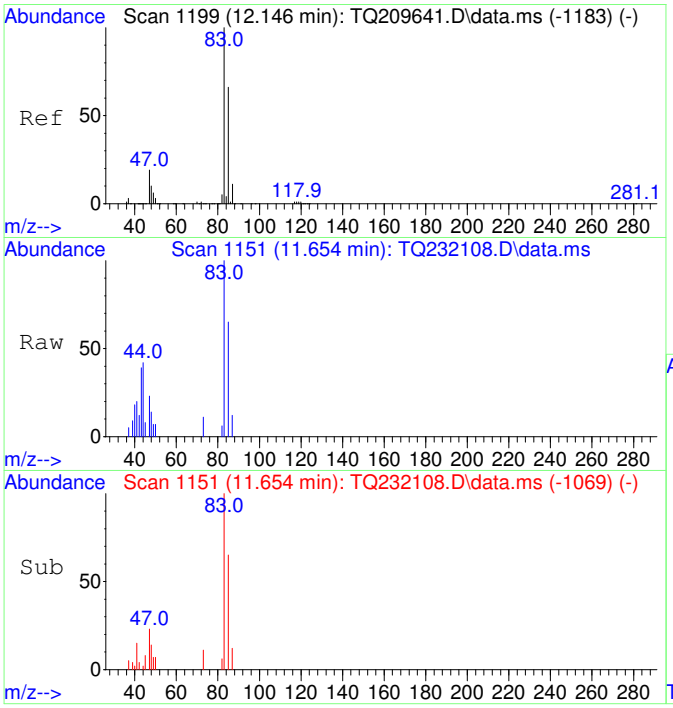


#27
Ethyl Acetate
Concen: 4.40 ppbv
RT: 11.306 min Scan# 1094
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 43 Resp: 323505

Ion	Ratio	Lower	Upper
43	100		
61	15.0	51.4	106.8#
45	14.6	9.4	19.6
70	11.0	7.5	15.5

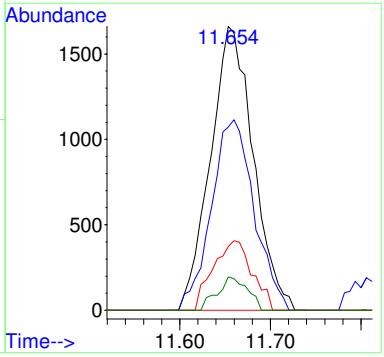


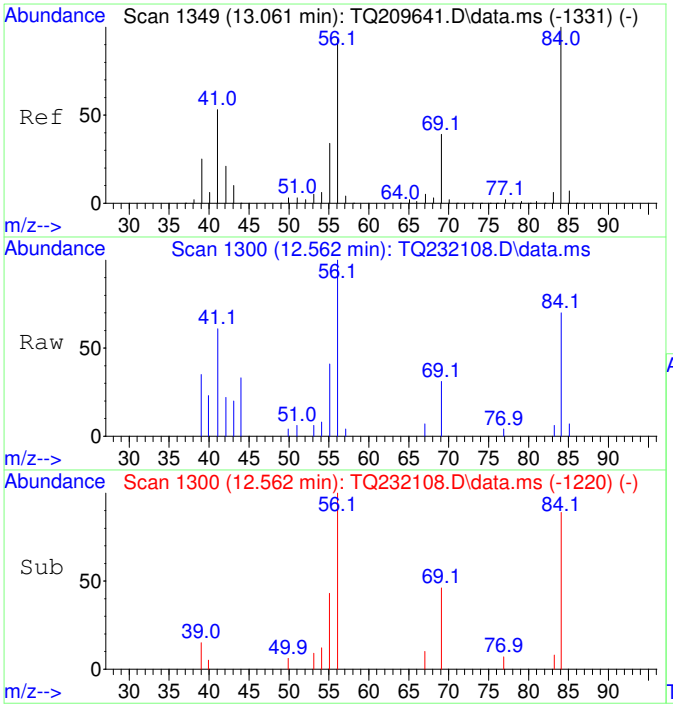


#29
Chloroform
Concen: 0.08 ppbv
RT: 11.654 min Scan# 1151
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 83 Resp: 5448

Ion	Ratio	Lower	Upper
83	100		
85	67.1	41.7	86.7
47	22.4	15.1	31.5
87	0.0	6.7	13.9#

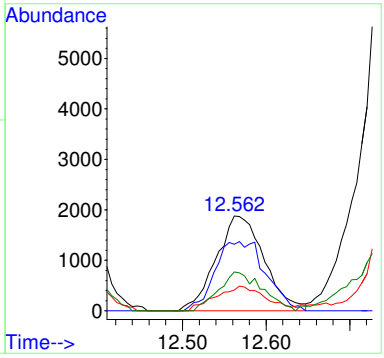


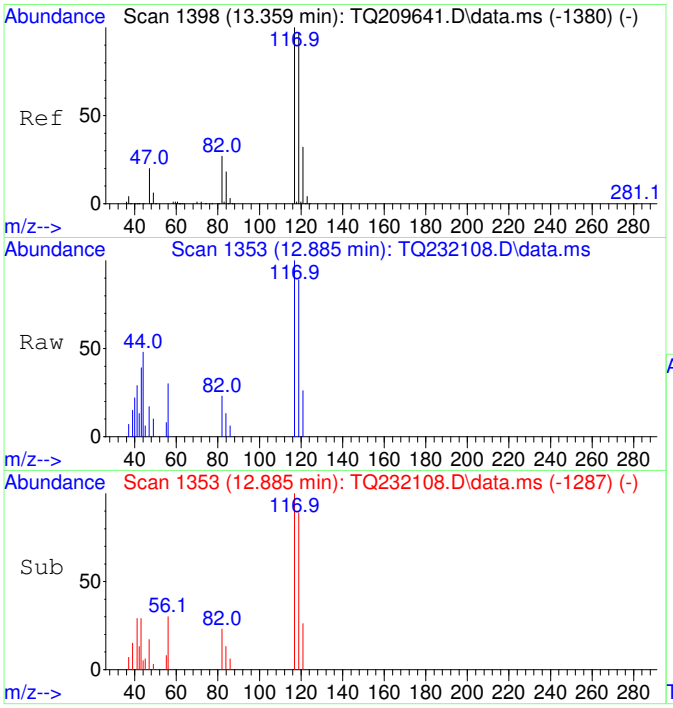


#32
Cyclohexane
Concen: 0.16 ppbv
RT: 12.562 min Scan# 1300
Delta R.T. -0.012 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 56 Resp: 7507

Ion	Ratio	Lower	Upper
56	100		
84	76.6	54.1	112.3
42	31.9	15.3	31.7#
55	37.0	23.5	48.7

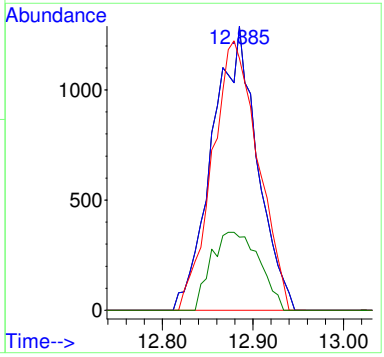


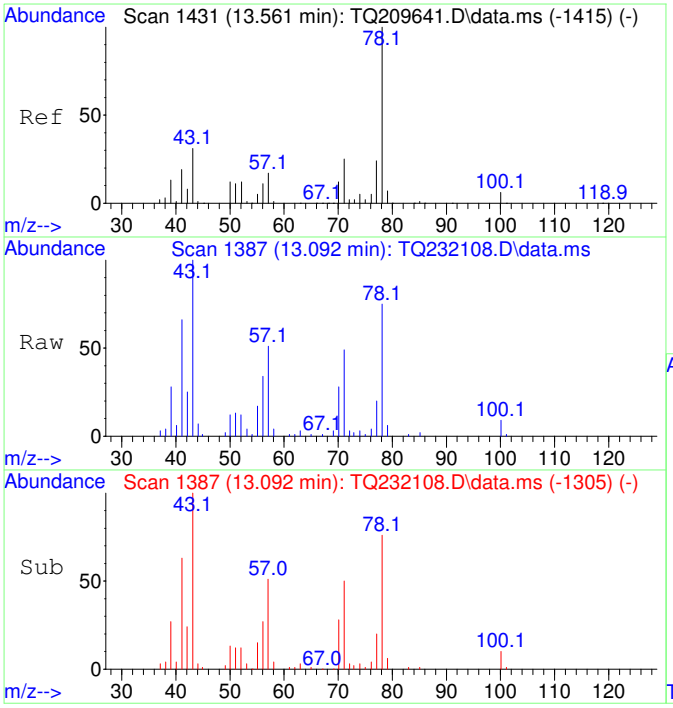


#34
Carbon Tetrachloride
Concen: 0.07 ppbv
RT: 12.885 min Scan# 1353
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:117 Resp: 4436

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	97.0	76.9	115.3
121	29.4	21.7	40.3

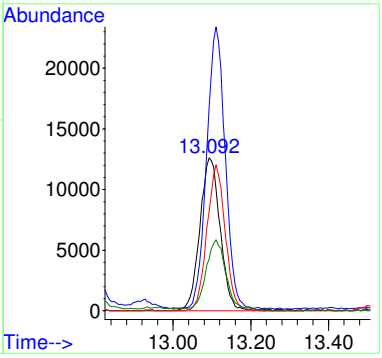


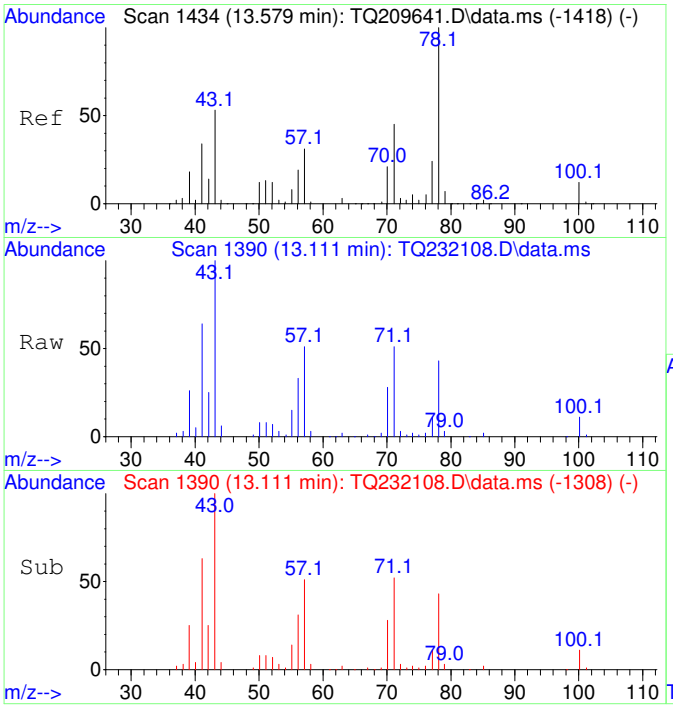


#36
Benzene
Concen: 0.44 ppbv
RT: 13.092 min Scan# 1387
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 78 Resp: 46404

Ion	Ratio	Lower	Upper
78	100		
43	166.1	37.5	77.9#
71	84.2	22.0	45.8#
42	45.8	8.8	18.4#

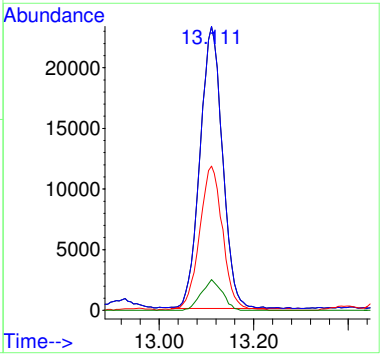


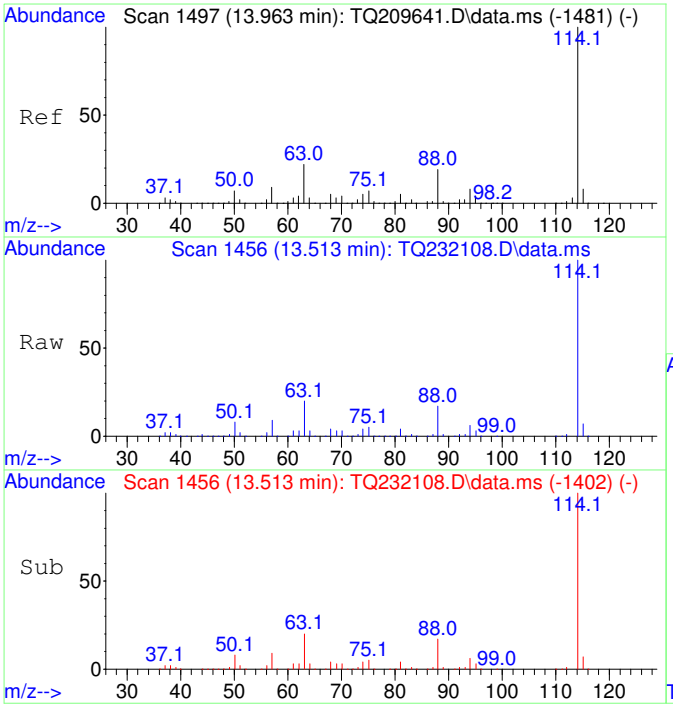


#37
n-Heptane
Concen: 1.32 ppbv
RT: 13.111 min Scan# 1390
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 43 Resp: 77245

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
57	52.5	42.6	64.0
100	10.1	13.3	19.9#

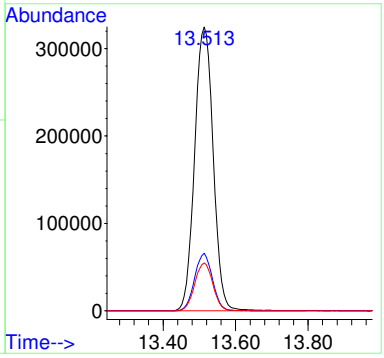


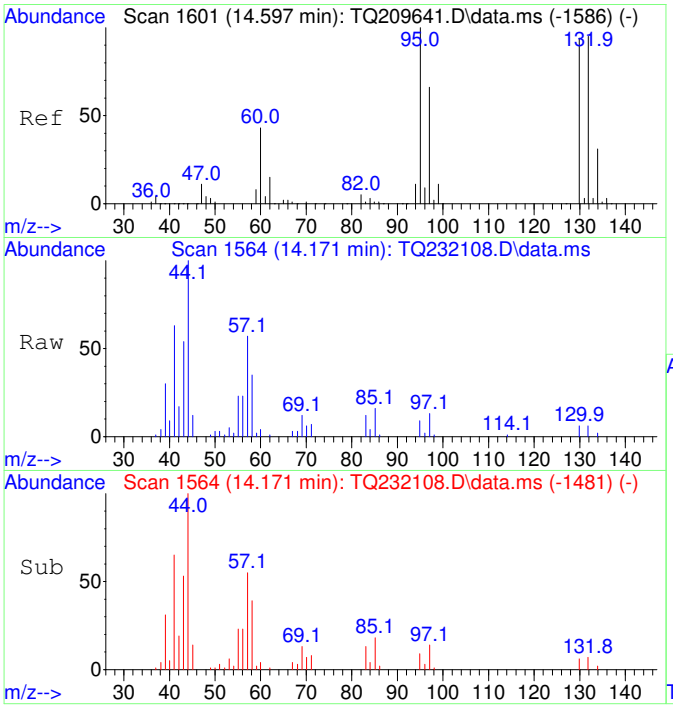


#38
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.513 min Scan# 1456
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:114 Resp: 1152807

Ion	Ratio	Lower	Upper
114	100		
63	19.6	12.9	26.9
88	16.6	10.7	22.3

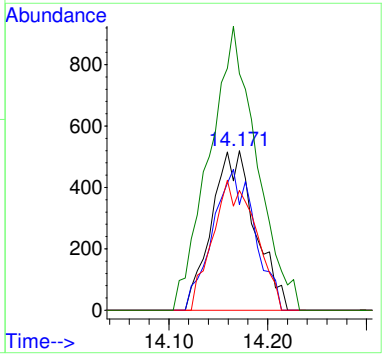


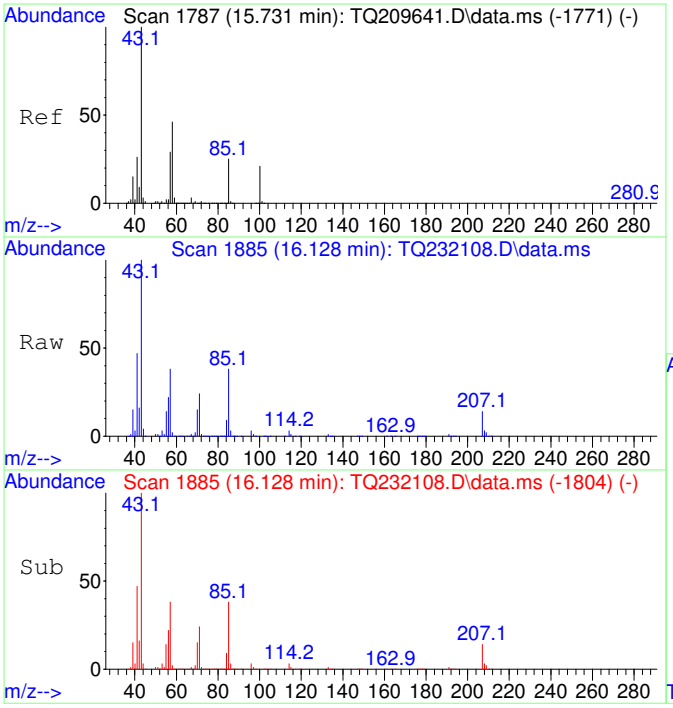


#39
Trichloroethylene
Concen: 0.03 ppbv
RT: 14.171 min Scan# 1564
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 95 Resp: 1590

Ion	Ratio	Lower	Upper
95	100		
130	85.7	66.0	137.0
132	80.8	63.3	131.5
97	194.7	41.9	87.1#

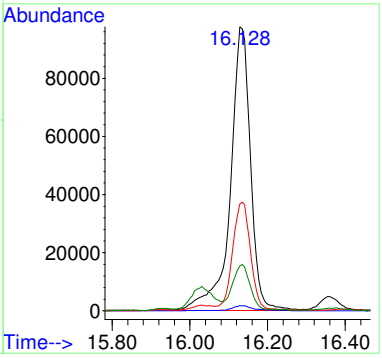


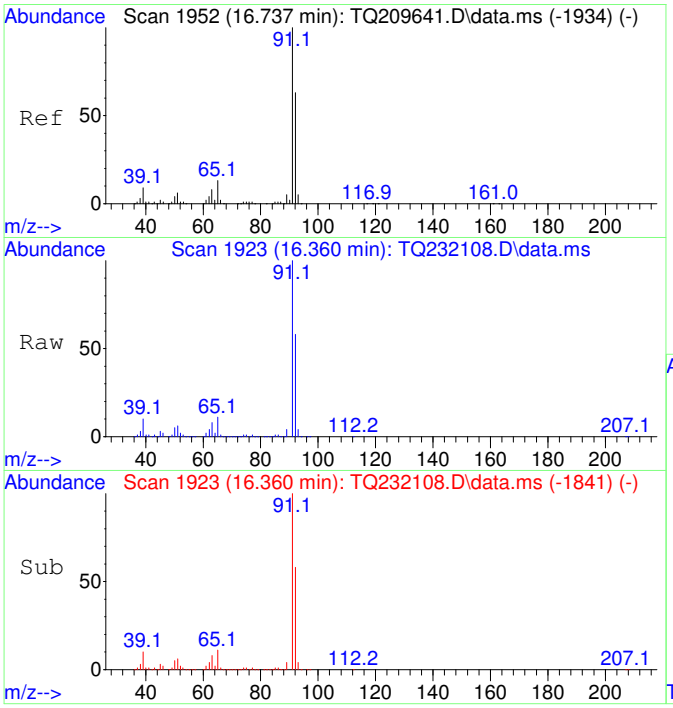


#44
Methyl Isobutyl Ketone
Concen: 4.56 ppbv
RT: 16.128 min Scan# 1885
Delta R.T. -0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 43 Resp: 352125

Ion	Ratio	Lower	Upper
43	100		
58	2.0	25.1	52.1#
57	34.8	15.5	32.3#
42	15.1	5.0	15.0#

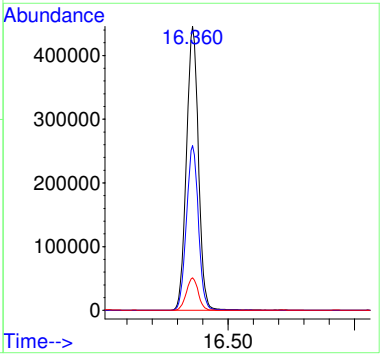


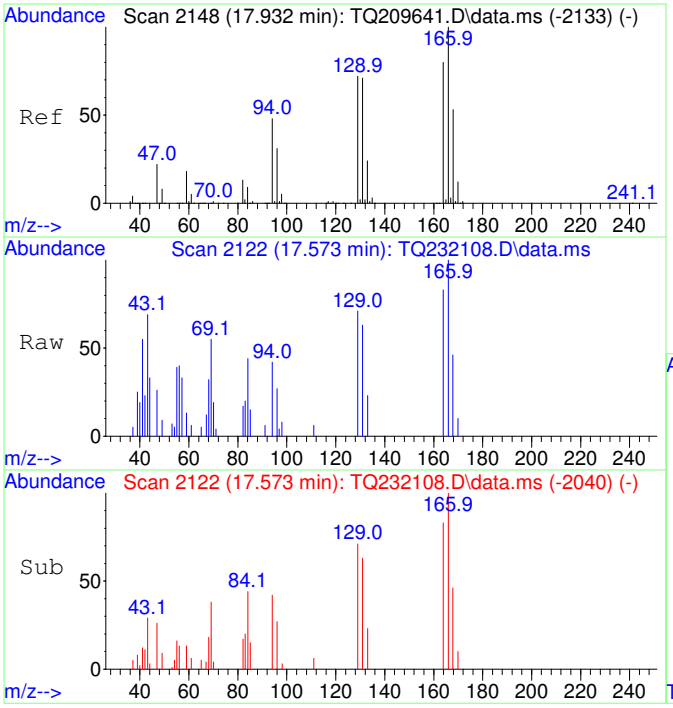


#46
Toluene
Concen: 11.82 ppbv
RT: 16.360 min Scan# 1923
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 91 Resp: 1462728

Ion	Ratio	Lower	Upper
91	100		
92	58.2	38.7	80.3
65	11.5	7.5	15.5

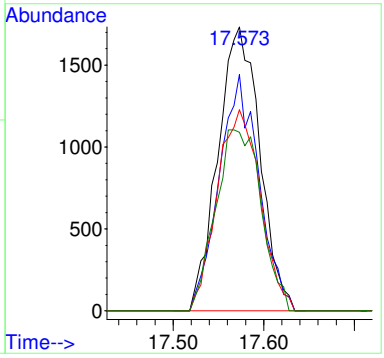


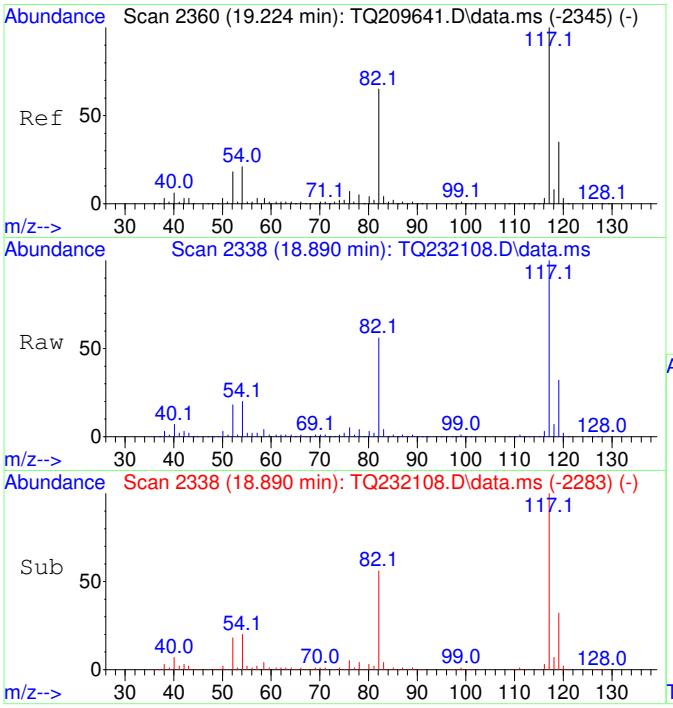


#51
Tetrachloroethylene
Concen: 0.09 ppbv
RT: 17.573 min Scan# 2122
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:166 Resp: 5569

Ion	Ratio	Lower	Upper
166	100		
164	78.7	51.0	106.0
129	72.8	48.1	99.9
131	69.4	46.3	96.3

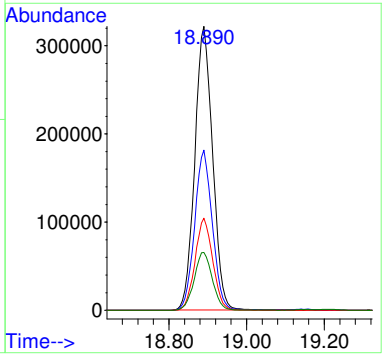


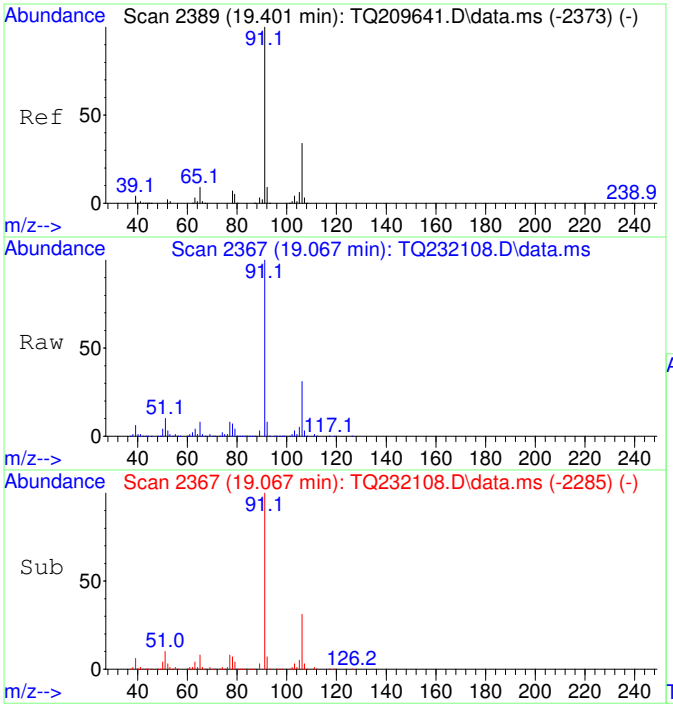


#54
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.890 min Scan# 2338
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:117 Resp: 1024486

Ion	Ratio	Lower	Upper
117	100		
82	56.0	37.1	77.1
119	32.2	22.1	45.9
54	21.1	13.8	28.6

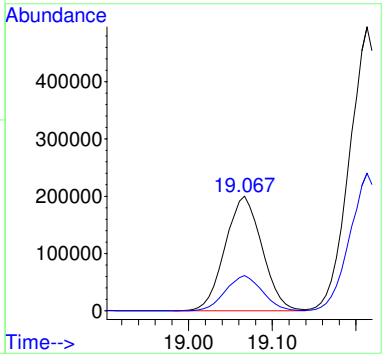


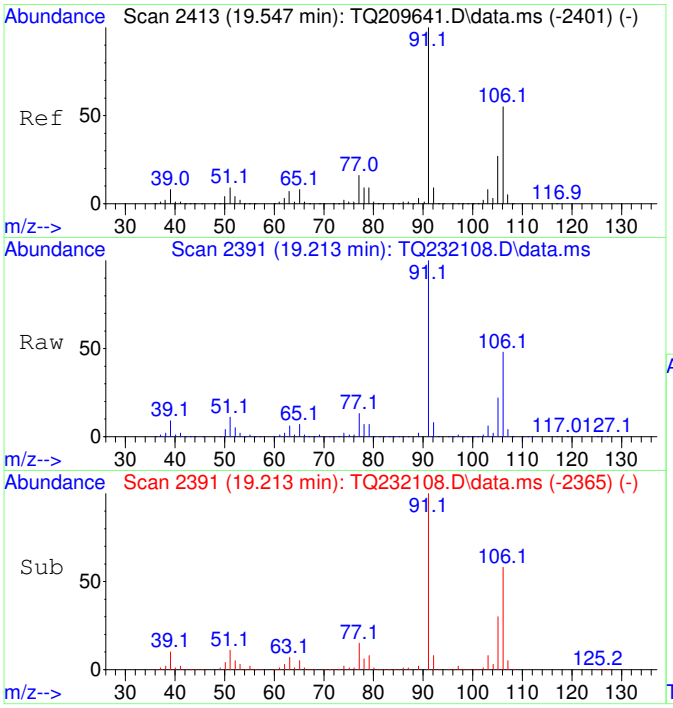


#57
Ethylbenzene
Concen: 3.73 ppbv
RT: 19.067 min Scan# 2367
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 91 Resp: 612387

Ion	Ratio	Lower	Upper
91	100		
106	30.7	20.5	42.7

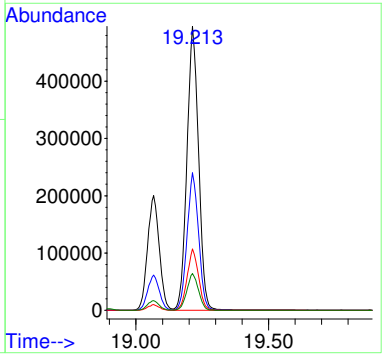


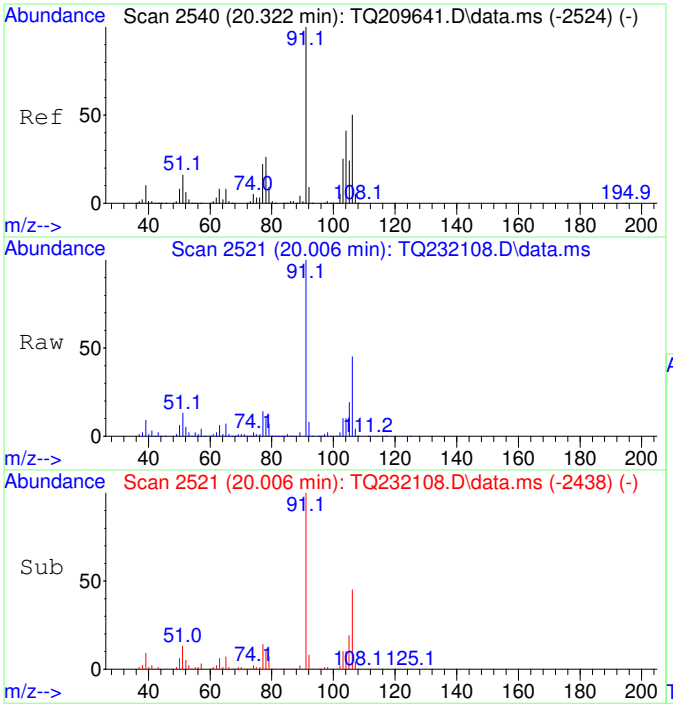


#58
p- & m-Xylenes
Concen: 12.04 ppbv
RT: 19.213 min Scan# 2391
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 91 Resp: 1502158

Ion	Ratio	Lower	Upper
91	100		
106	48.2	32.6	67.8
105	21.4	14.5	30.1
77	13.0	8.5	17.7

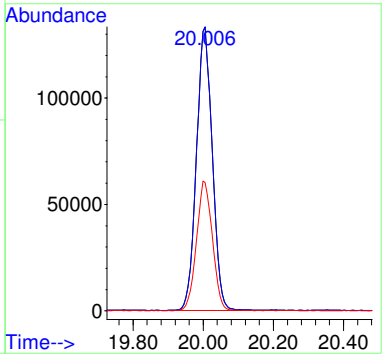


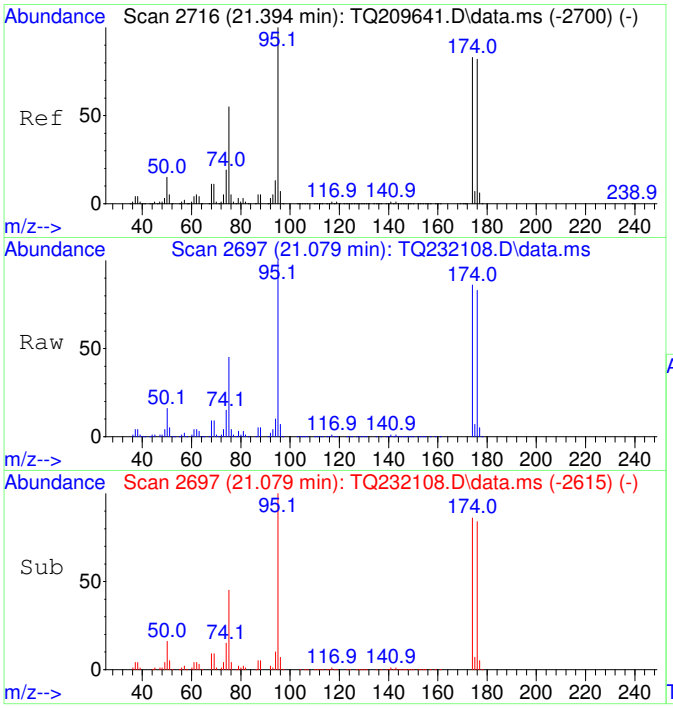


#59
o-Xylene
Concen: 3.28 ppbv
RT: 20.006 min Scan# 2521
Delta R.T. 0.006 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 91 Resp: 417312

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	46.5	38.2	57.2

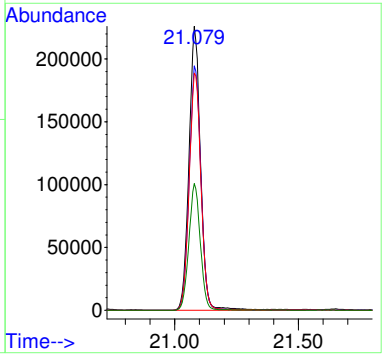


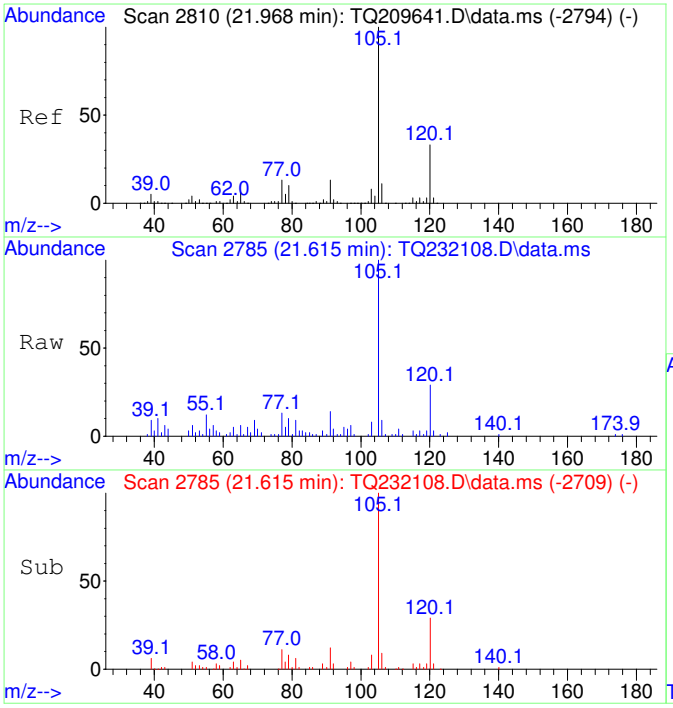


#65
p-Bromofluorobenzene
Concen: 9.44 ppbv
RT: 21.079 min Scan# 2697
Delta R.T. -0.000 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion: 95 Resp: 734604

Ion	Ratio	Lower	Upper
95	100		
174	87.8	53.2	110.6
176	85.6	51.6	107.2
75	44.7	30.7	63.7

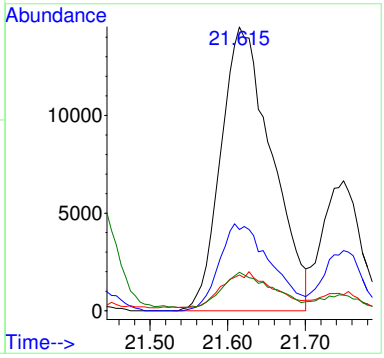


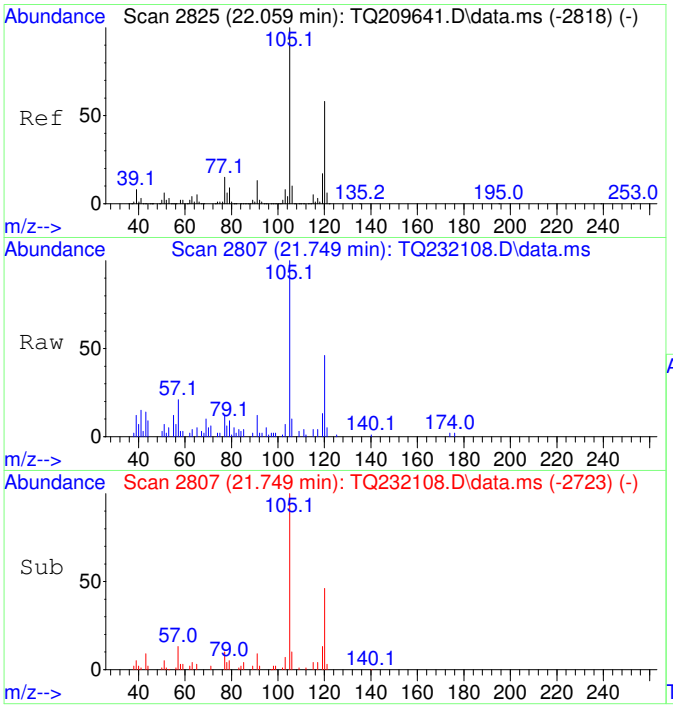


#66
4-Ethyltoluene
Concen: 0.39 ppbv
RT: 21.615 min Scan# 2785
Delta R.T. -0.037 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:105 Resp: 66050

Ion	Ratio	Lower	Upper
105	100		
120	31.1	19.6	40.8
77	13.3	7.3	15.3
91	12.8	7.1	14.7

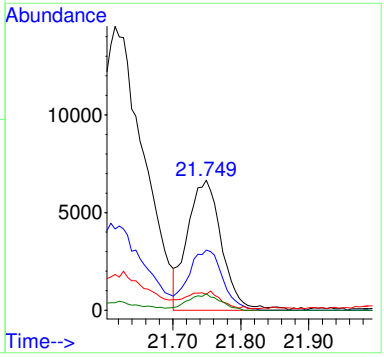


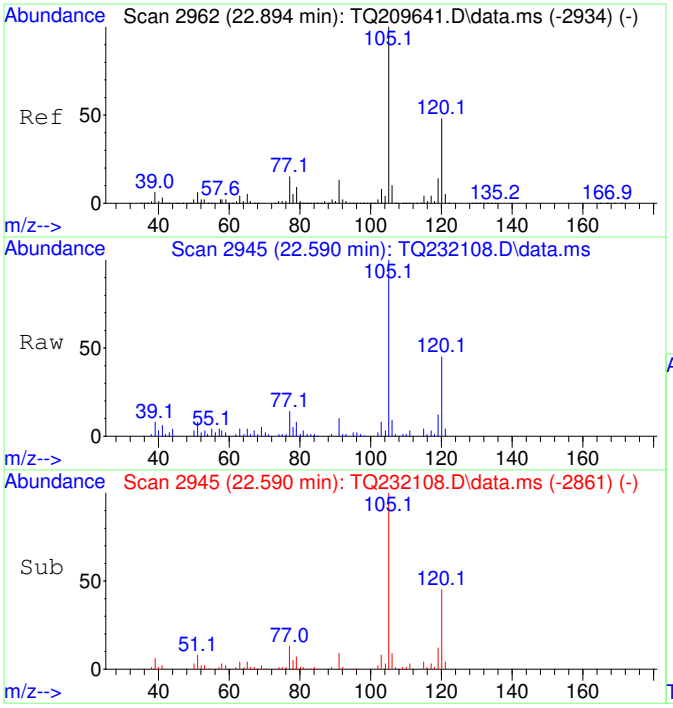


#67
1,3,5-Trimethylbenzene
Concen: 0.17 ppbv
RT: 21.749 min Scan# 2807
Delta R.T. 0.012 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:105 Resp: 23498

Ion	Ratio	Lower	Upper
105	100		
120	46.0	39.2	58.8
77	12.8	10.1	15.1
119	12.0	6.1	18.3

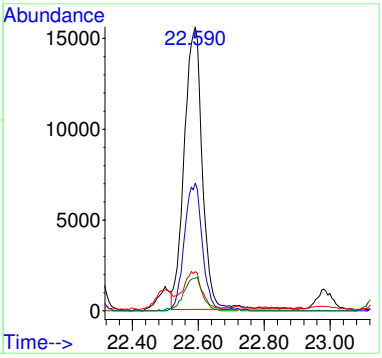




#69
1,2,4-Trimethylbenzene
Concen: 0.42 ppbv
RT: 22.590 min Scan# 2945
Delta R.T. 0.012 min
Lab File: TQ232108.D
Acq: 17 Apr 2025 11:44 pm

Tgt Ion:105 Resp: 58989

Ion	Ratio	Lower	Upper
105	100		
120	45.4	30.2	62.6
77	14.4	8.1	16.9
119	12.3	7.8	16.2



Sample Information

Client Sample ID: **OA-1 20250328** **York Sample ID:** **25C1814-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.74	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.59	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.74	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.83	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.59	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.44	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.11	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.80	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.53	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.83	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.44	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.50	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.76	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.53	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
106-99-0	1,3-Butadiene	ND		ug/m³	0.72	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.50	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.65	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
123-91-1	1,4-Dioxane	ND		ug/m³	0.78	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ug/m³	0.25	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
78-93-3	**2-Butanone**	12		ug/m³	0.32	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
591-78-6	* 2-Hexanone	ND		ug/m³	0.89	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
107-05-1	3-Chloropropene	ND		ug/m³	1.7	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
108-10-1	**4-Methyl-2-pentanone**	2.8		ug/m³	0.44	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
67-64-1	**Acetone**	21		ug/m³	2.1	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
107-13-1	Acrylonitrile	ND		ug/m³	3.1	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
71-43-2	**Benzene**	0.66		ug/m³	0.35	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
100-44-7	Benzyl chloride	ND		ug/m³	0.56	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-27-4	Bromodichloromethane	ND		ug/m³	0.73	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-25-2	Bromoform	ND		ug/m³	1.1	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
74-83-9	Bromomethane	ND		ug/m³	0.42	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-15-0	Carbon disulfide	ND		ug/m³	0.34	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
56-23-5	**Carbon tetrachloride**	0.34		ug/m³	0.17	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
108-90-7	Chlorobenzene	ND		ug/m³	0.50	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-00-3	Chloroethane	ND		ug/m³	0.29	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR

Sample Information

Client Sample ID: **OA-1 20250328** **York Sample ID:** **25C1814-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C1814	240047 32-01 57th St Queens, NY	Outdoor Ambient Air	March 28, 2025 3:26 pm	03/28/2025

Volatile Organic Compounds in Air by GC/MS

Sample Prepared by Method: EPA TO15 PREP

Results Reported to RL

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
67-66-3	Chloroform	ND		ug/m³	0.53	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
74-87-3	**Chloromethane**	1.3		ug/m³	0.22	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.11	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.49	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
110-82-7	Cyclohexane	ND		ug/m³	0.37	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
124-48-1	Dibromochloromethane	ND		ug/m³	0.92	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-71-8	**Dichlorodifluoromethane**	2.4		ug/m³	0.54	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
141-78-6	*** Ethyl acetate**	5.5		ug/m³	0.78	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
100-41-4	**Ethyl Benzene**	3.4		ug/m³	0.47	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.2	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
67-63-0	**Isopropanol**	4.7		ug/m³	1.6	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
80-62-6	Methyl Methacrylate	ND		ug/m³	0.44	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.39	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-09-2	Methylene chloride	ND		ug/m³	2.3	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
91-20-3	* Naphthalene	ND		ug/m³	1.1	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
142-82-5	**n-Heptane**	0.80		ug/m³	0.44	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
110-54-3	**n-Hexane**	0.57		ug/m³	0.38	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
95-47-6	**o-Xylene**	3.3		ug/m³	0.47	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
179601-23-1	**p- & m- Xylenes**	12		ug/m³	0.94	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.53	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
115-07-1	* Propylene	ND		ug/m³	0.19	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
100-42-5	Styrene	ND		ug/m³	0.46	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
127-18-4	Tetrachloroethylene	ND		ug/m³	0.74	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.64	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
108-88-3	**Toluene**	7.2		ug/m³	0.41	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.43	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.49	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
79-01-6	Trichloroethylene	ND		ug/m³	0.15	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-69-4	**Trichlorofluoromethane (Freon 11)**	1.3		ug/m³	0.61	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
108-05-4	Vinyl acetate	ND	TO-CCV, TO-LCS-L	ug/m³	0.38	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
593-60-2	Vinyl bromide	ND		ug/m³	0.47	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
75-01-4	Vinyl Chloride	ND		ug/m³	0.14	1.084	EPA TO-15	04/17/2025 07:45	04/18/2025 00:49	YR
74-97-5	*Internal Standard: Bromochloromethan*	*104 %*			*60-140*					
540-36-3	*Internal Standard: ISTD: 1,4-Difluorob*	*101 %*			*60-140*					
3114-55-4	*Internal Standard: ISTD: d5-Chloroben*	*101 %*			*60-140*					

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232109.D
Acq On : 18 Apr 2025 12:49 am
Operator : YR
Sample : 25C1814-03
Misc : QBTO2040525A 0.533X
ALS Vial : 24 Sample Multiplier: 1.084

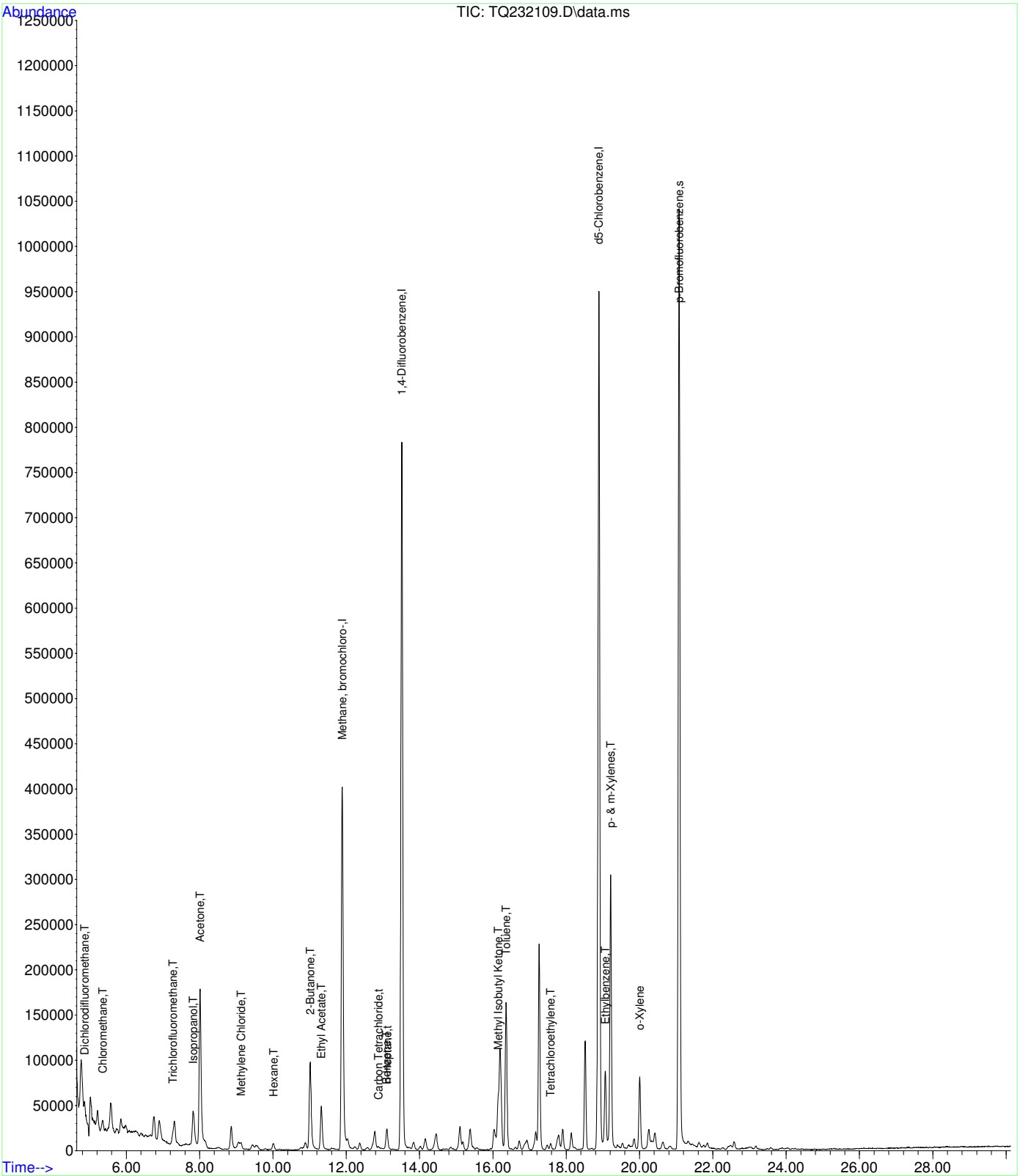
Quant Time: Apr 18 06:05:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

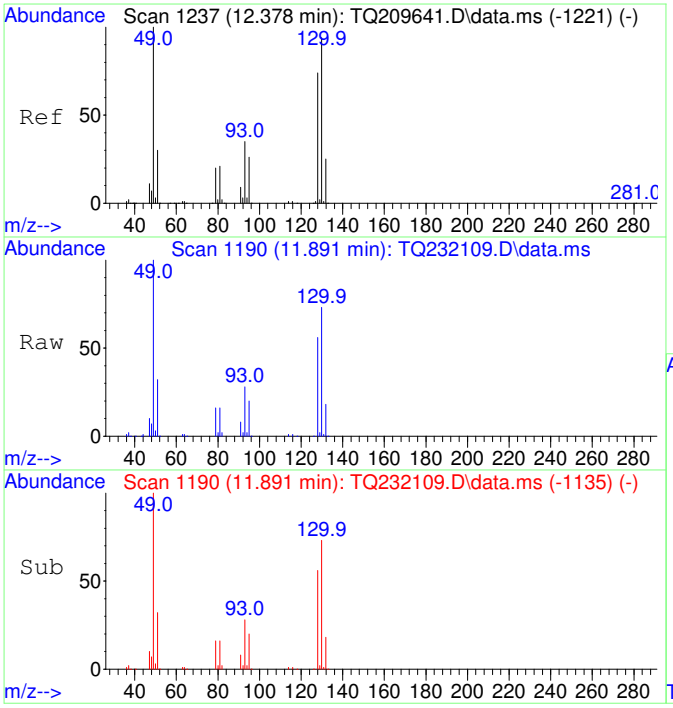
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.891	49	379227	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1181102	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1020767	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	720406	9.29	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.90%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	4.862	85	32283	0.44	ppbv		97
5) Chloromethane	5.356	50	12560	0.56	ppbv		95
11) Trichlorofluoromethane	7.270	101	15995	0.21	ppbv		99
12) Isopropanol	7.819	45	111485	1.78	ppbv		100
14) Acetone	8.014	43	436805	8.30	ppbv		96
18) Methylene Chloride	9.130	49	7772	0.23	ppbv		95
23) Hexane	10.020	57	6306	0.15	ppbv		89
26) 2-Butanone	11.020	43	238820	3.87	ppbv		97
27) Ethyl Acetate	11.318	43	104178	1.41	ppbv	#	45
34) Carbon Tetrachloride	12.879	117	3281	0.05	ppbv		98
36) Benzene	13.092	78	20584	0.19	ppbv		89
37) n-Heptane	13.117	43	10523	0.18	ppbv	#	96
44) Methyl Isobutyl Ketone	16.141	43	49203	0.62	ppbv	#	62
46) Toluene	16.360	91	224220	1.77	ppbv		98
51) Tetrachloroethylene	17.567	166	3326	0.05	ppbv		97
57) Ethylbenzene	19.067	91	120156	0.73	ppbv		99
58) p- & m-Xylenes	19.213	91	322037	2.59	ppbv		99
59) o-Xylene	20.006	91	90759	0.71	ppbv		99

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

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232109.D
Acq On : 18 Apr 2025 12:49 am
Operator : YR
Sample : 25C1814-03
Misc : QBTO2040525A 0.533X
ALS Vial : 24 Sample Multiplier: 1.084

Quant Time: Apr 18 06:05:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

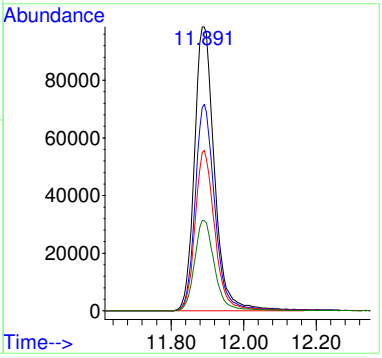


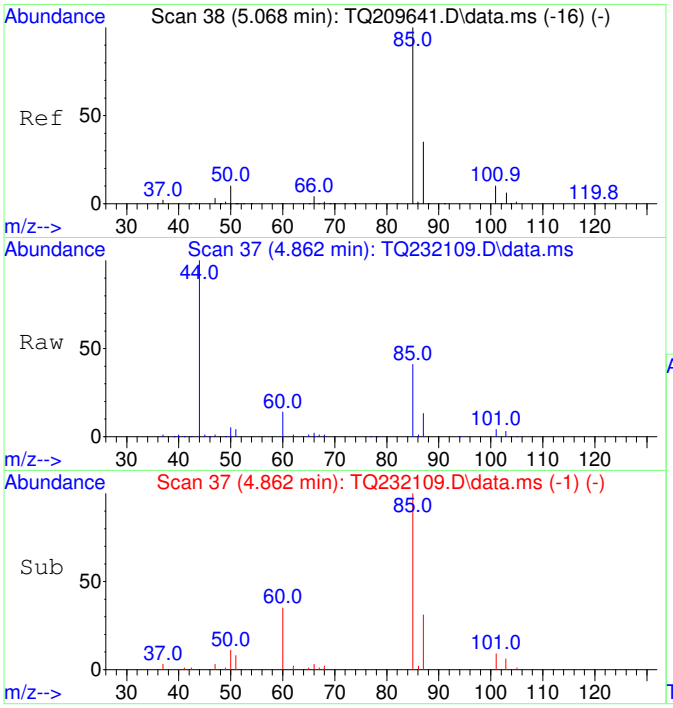


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 11.891 min Scan# 1190
Delta R.T. 0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 49 Resp: 379227

Ion	Ratio	Lower	Upper
49	100		
130	71.7	48.1	99.9
128	55.5	38.3	79.5
51	31.9	20.3	42.3

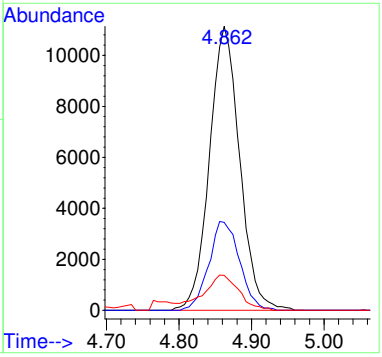


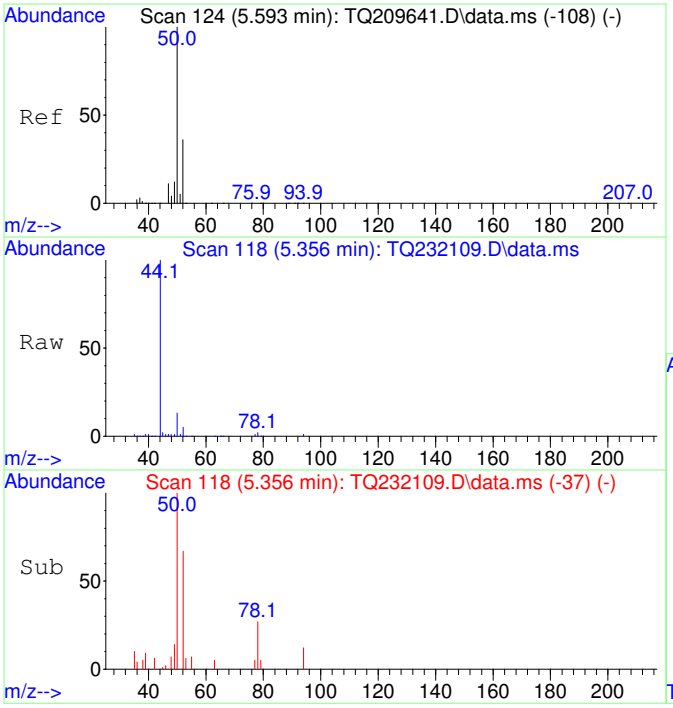


#3
Dichlorodifluoromethane
Concen: 0.44 ppbv
RT: 4.862 min Scan# 37
Delta R.T. -0.012 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 85 Resp: 32283

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.9	43.5
50	14.4	7.2	15.0

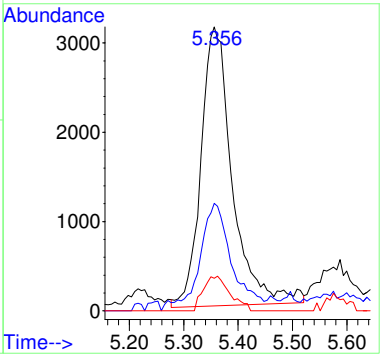


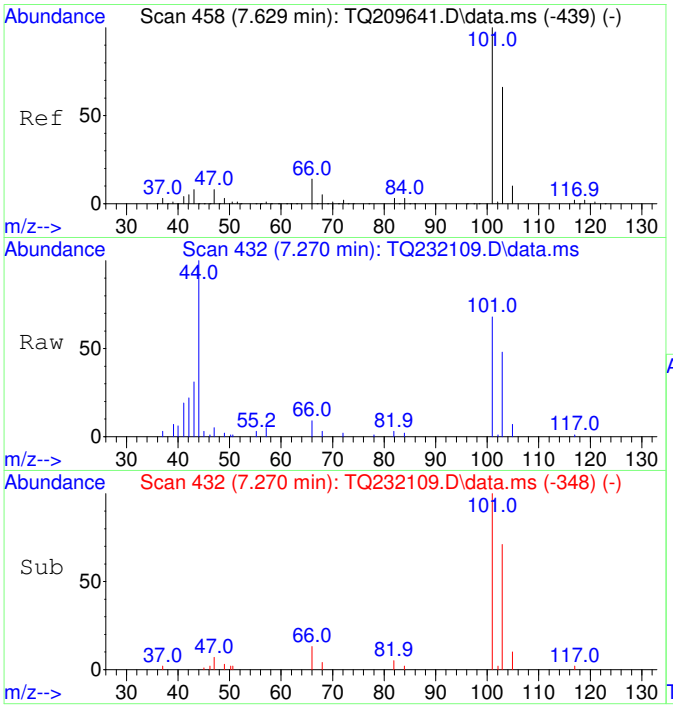


#5
Chloromethane
Concen: 0.56 ppbv
RT: 5.356 min Scan# 118
Delta R.T. -0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 50 Resp: 12560

Ion	Ratio	Lower	Upper
50	100		
52	29.3	0.0	65.2
49	10.6	0.0	19.6

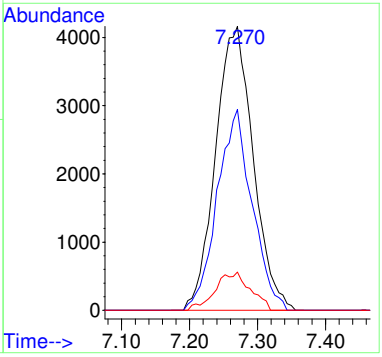


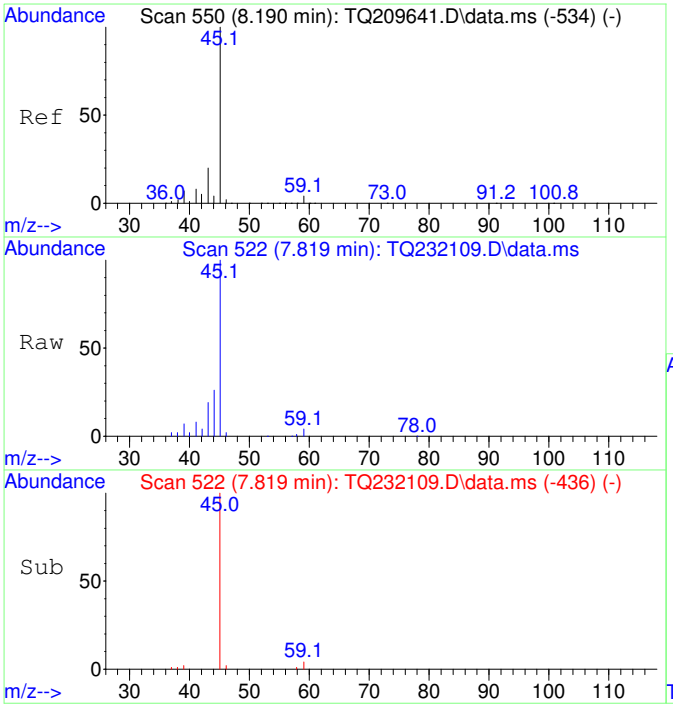


#11
Trichlorofluoromethane
Concen: 0.21 ppbv
RT: 7.270 min Scan# 432
Delta R.T. 0.012 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion:101 Resp: 15995

Ion	Ratio	Lower	Upper
101	100		
103	65.7	42.3	87.8
66	12.5	7.8	16.2

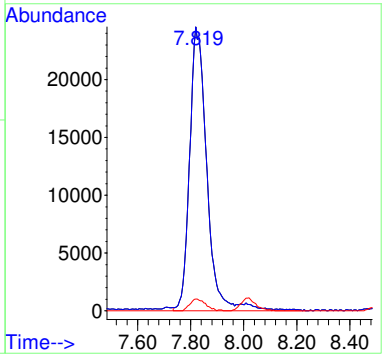


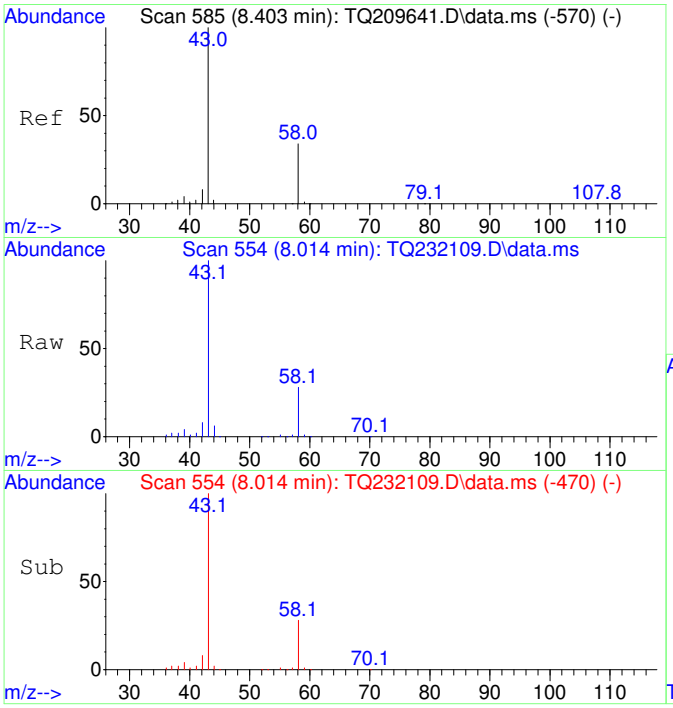


#12
Isopropanol
Concen: 1.78 ppbv
RT: 7.819 min Scan# 522
Delta R.T. 0.024 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 45 Resp: 111485

Ion	Ratio	Lower	Upper
45	100		
45	100.0	65.0	135.0
59	3.8	0.0	10.0

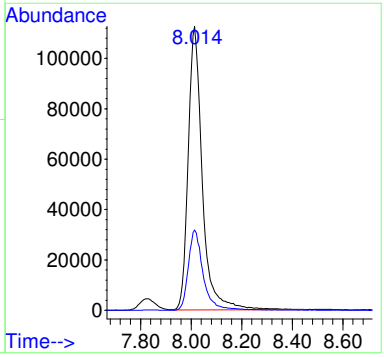


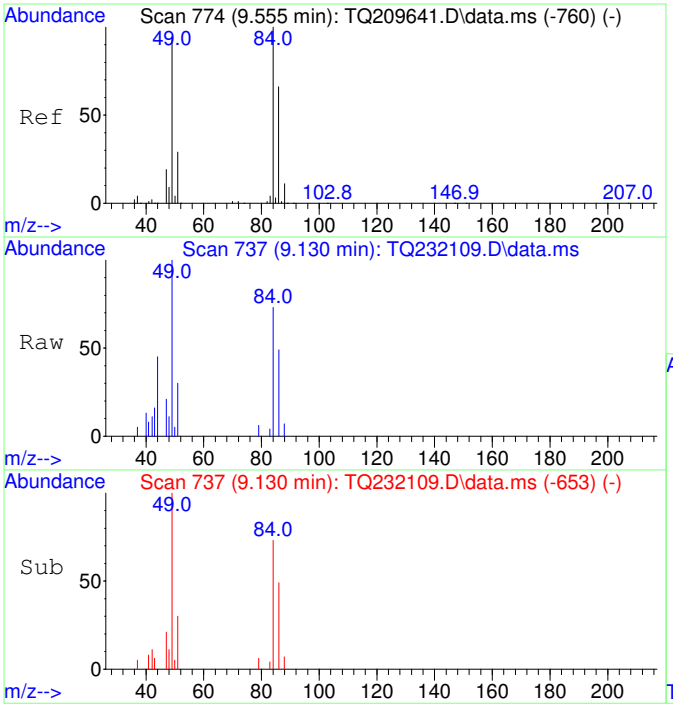


#14
Acetone
Concen: 8.30 ppbv
RT: 8.014 min Scan# 554
Delta R.T. 0.012 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 43 Resp: 436805

Ion	Ratio	Lower	Upper
43	100		
58	30.1	20.9	43.3

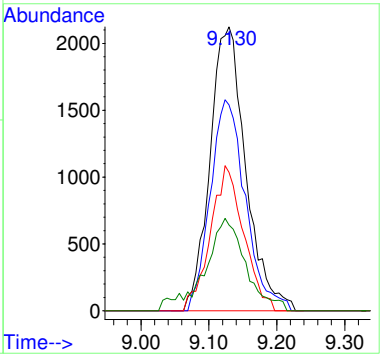


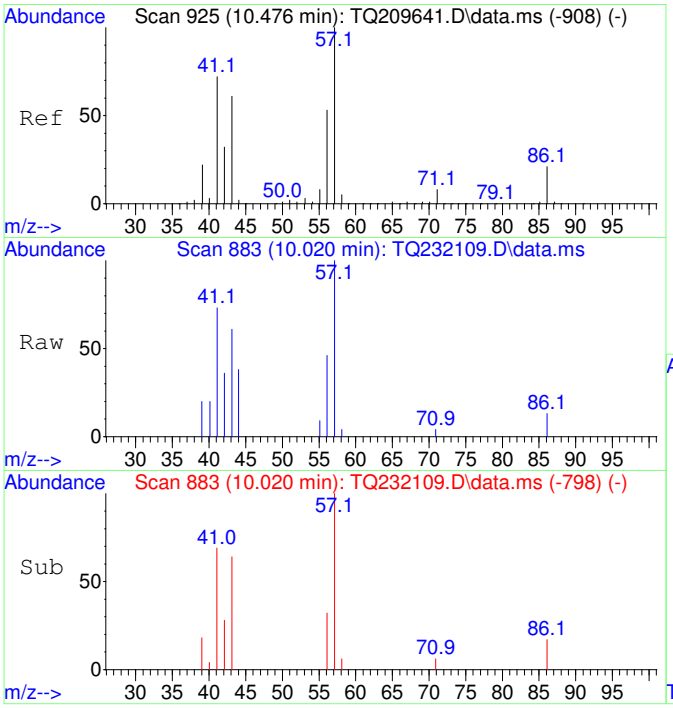


#18
Methylene Chloride
Concen: 0.23 ppbv
RT: 9.130 min Scan# 737
Delta R.T. 0.012 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 49 Resp: 7772

Ion	Ratio	Lower	Upper
49	100		
84	73.3	49.9	103.5
86	47.4	31.8	66.0
51	37.1	20.2	41.9

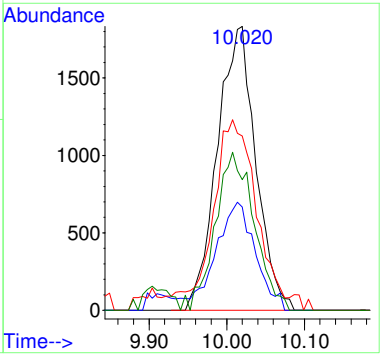


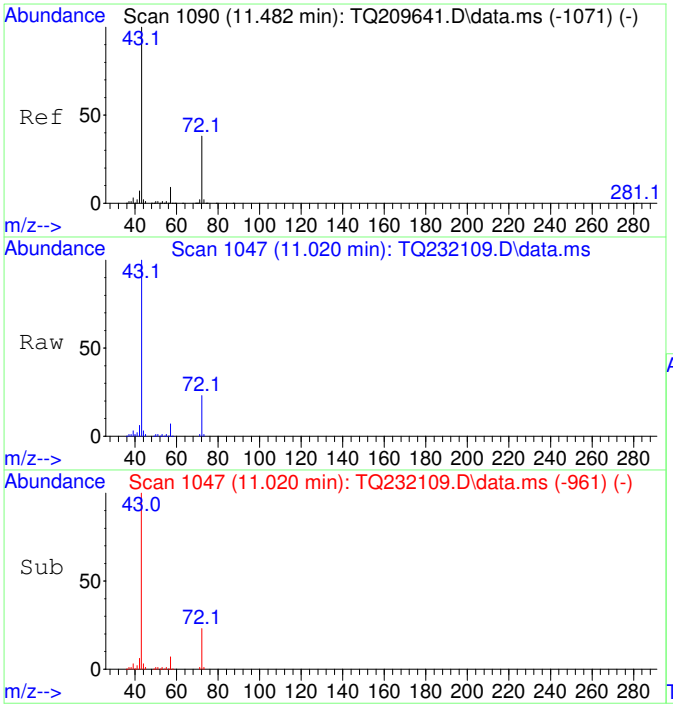


#23
Hexane
Concen: 0.15 ppbv
RT: 10.020 min Scan# 883
Delta R.T. 0.018 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 57 Resp: 6306

Ion	Ratio	Lower	Upper
57	100		
42	38.6	21.6	45.0
43	76.1	42.0	87.2
56	56.1	33.3	69.1

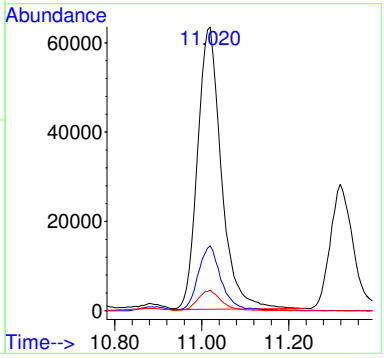


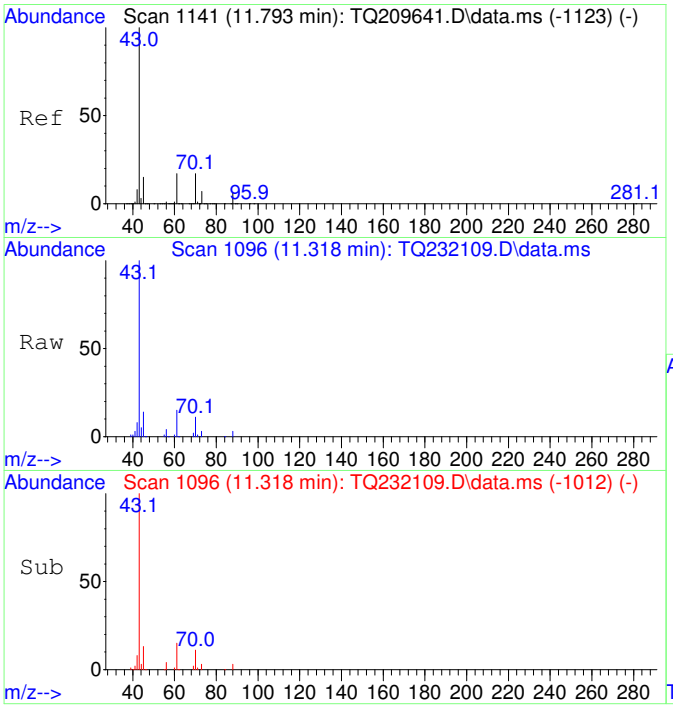


#26
2-Butanone
Concen: 3.87 ppbv
RT: 11.020 min Scan# 1047
Delta R.T. 0.024 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 43 Resp: 238820

Ion	Ratio	Lower	Upper
43	100		
72	23.1	16.1	33.5
57	7.5	4.9	10.3

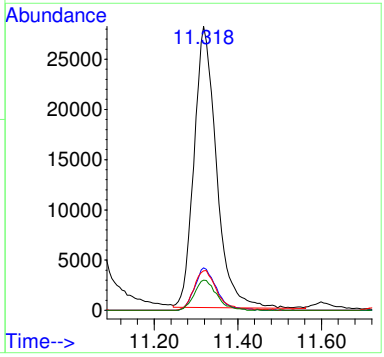


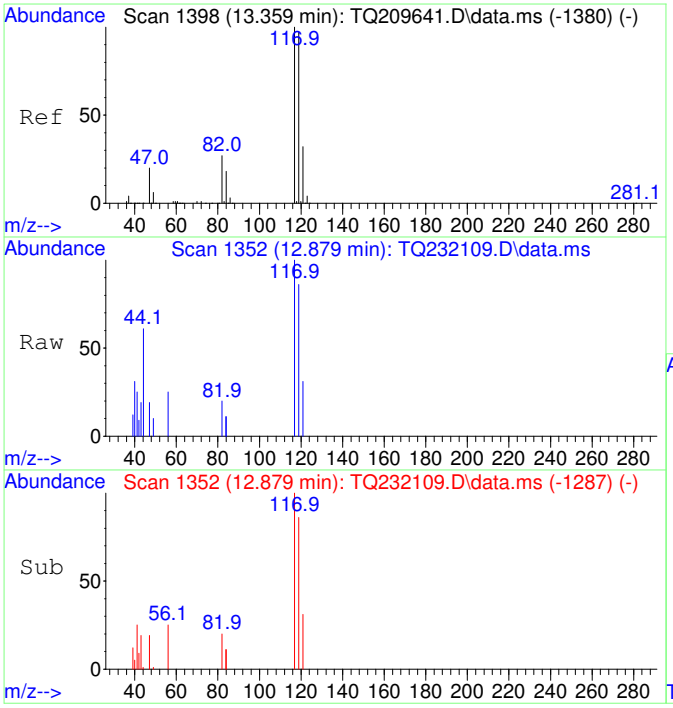


#27
Ethyl Acetate
Concen: 1.41 ppbv
RT: 11.318 min Scan# 1096
Delta R.T. 0.012 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 43 Resp: 104178

Ion	Ratio	Lower	Upper
43	100		
61	14.8	51.4	106.8#
45	14.7	9.4	19.6
70	10.8	7.5	15.5

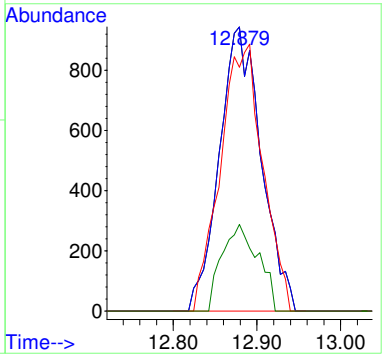


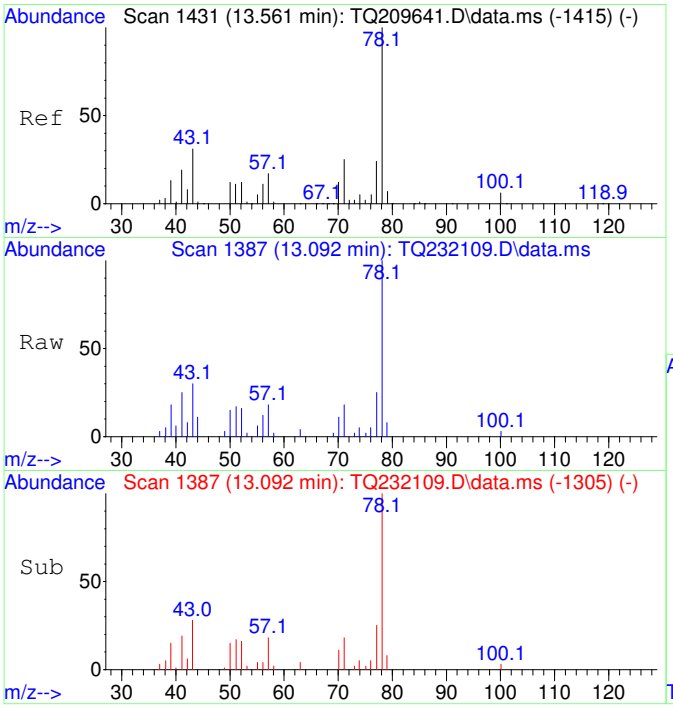


#34
Carbon Tetrachloride
Concen: 0.05 ppbv
RT: 12.879 min Scan# 1352
Delta R.T. -0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion:117 Resp: 3281

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	95.0	76.9	115.3
121	26.2	21.7	40.3

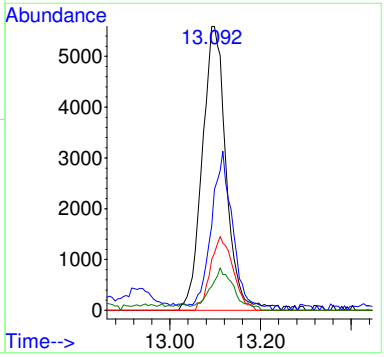


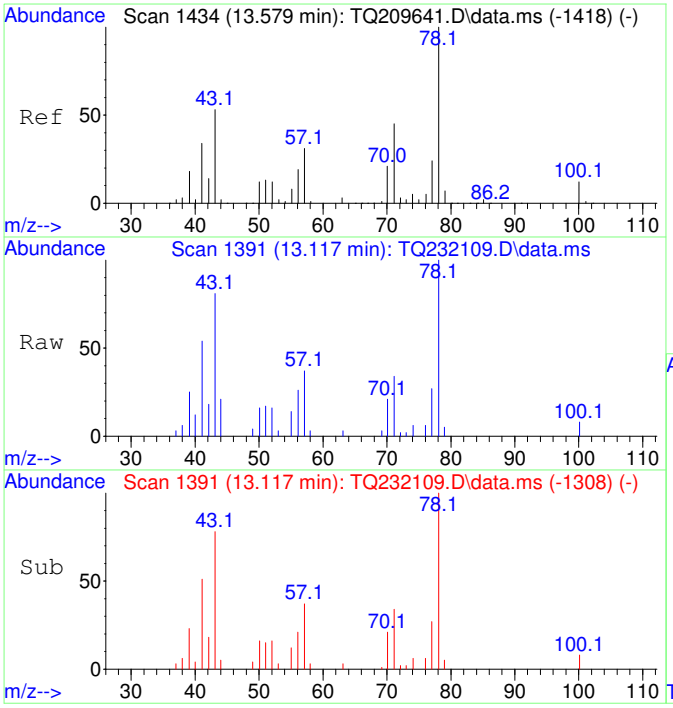


#36
Benzene
Concen: 0.19 ppbv
RT: 13.092 min Scan# 1387
Delta R.T. -0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 78 Resp: 20584

Ion	Ratio	Lower	Upper
78	100		
43	50.5	37.5	77.9
71	24.5	22.0	45.8
42	14.8	8.8	18.4

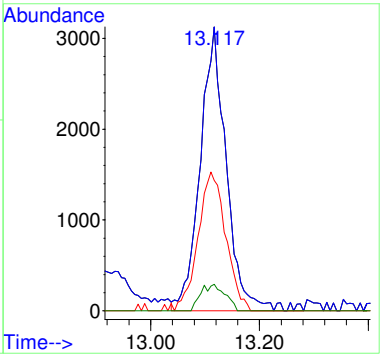


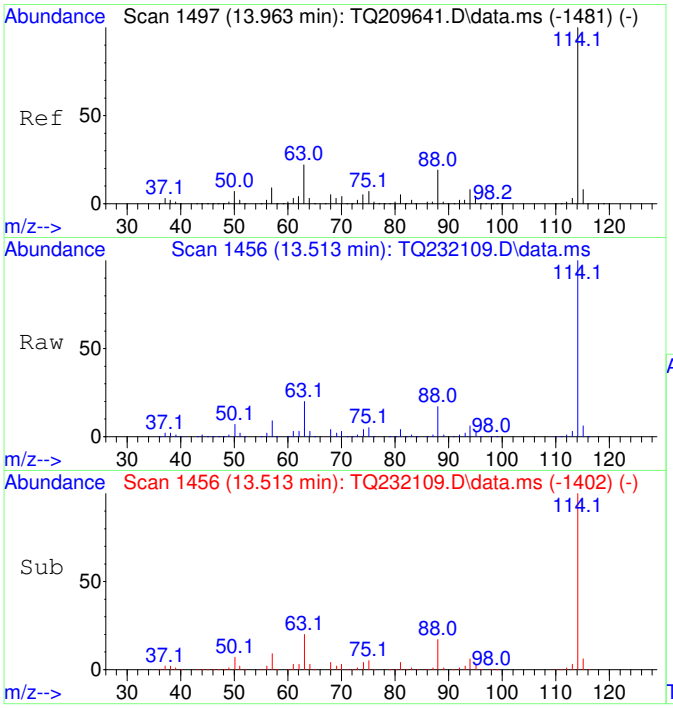


#37
n-Heptane
Concen: 0.18 ppbv
RT: 13.117 min Scan# 1391
Delta R.T. 0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 43 Resp: 10523

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
57	51.9	42.6	64.0
100	0.0	13.3	19.9#

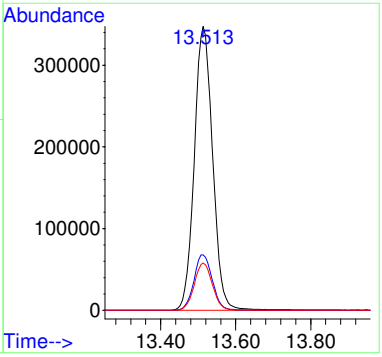


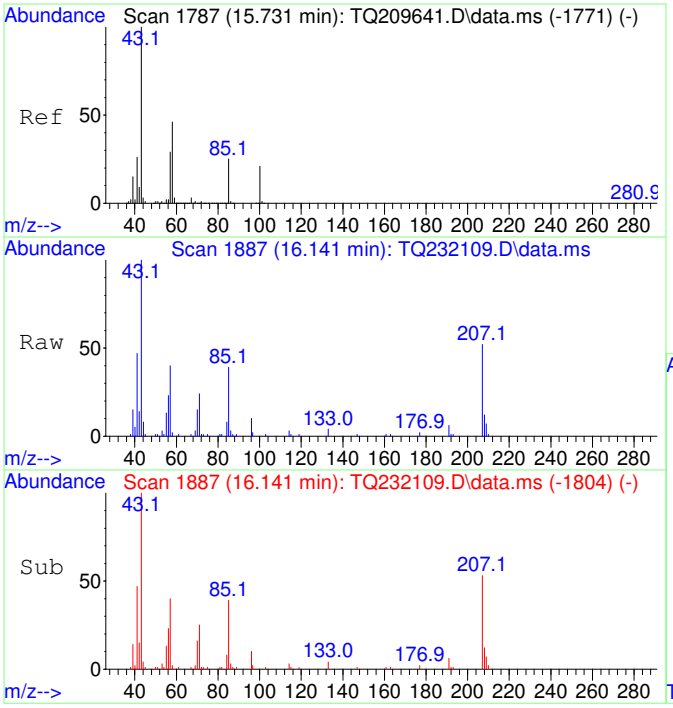


#38
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.513 min Scan# 1456
Delta R.T. 0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion:114 Resp: 1181102

Ion	Ratio	Lower	Upper
114	100		
63	19.7	12.9	26.9
88	16.6	10.7	22.3

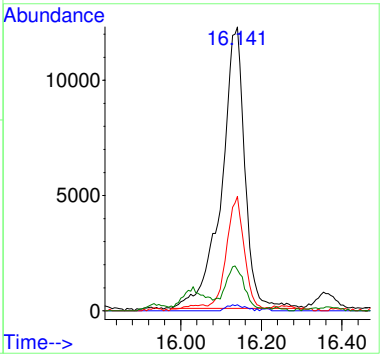


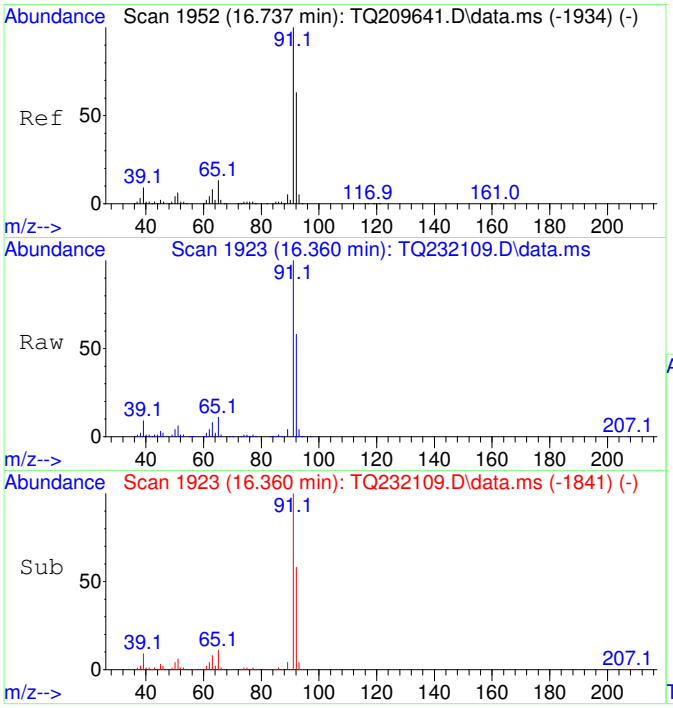


#44
Methyl Isobutyl Ketone
Concen: 0.62 ppbv
RT: 16.141 min Scan# 1887
Delta R.T. 0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 43 Resp: 49203

Ion	Ratio	Lower	Upper
43	100		
58	1.6	25.1	52.1#
57	30.5	15.5	32.3
42	13.3	5.0	15.0

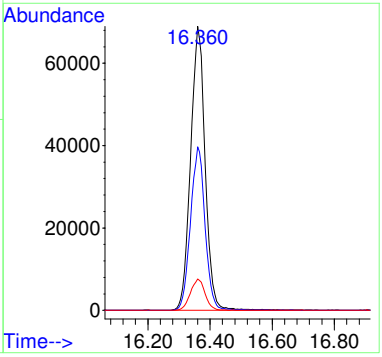


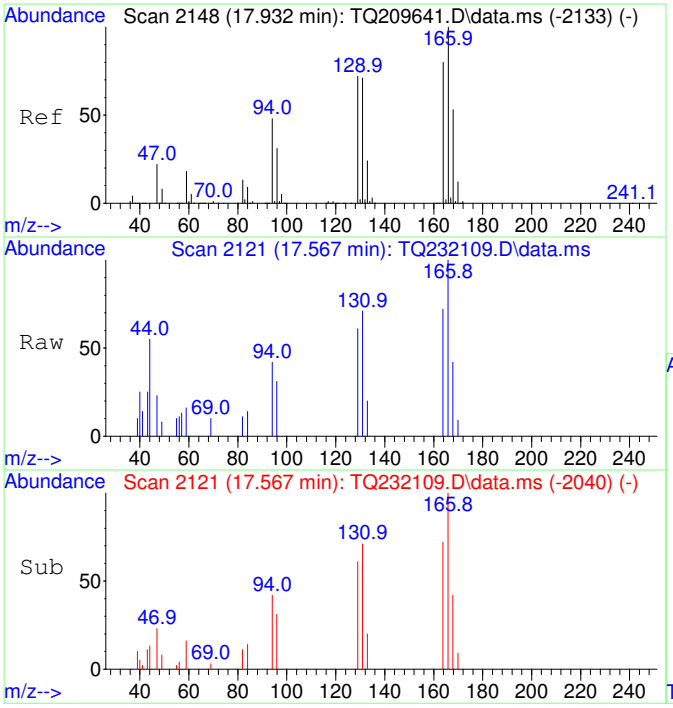


#46
Toluene
Concen: 1.77 ppbv
RT: 16.360 min Scan# 1923
Delta R.T. -0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 91 Resp: 224220

Ion	Ratio	Lower	Upper
91	100		
92	57.7	38.7	80.3
65	11.2	7.5	15.5

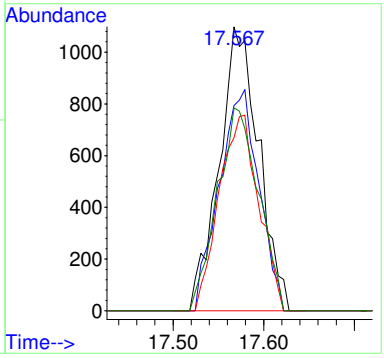


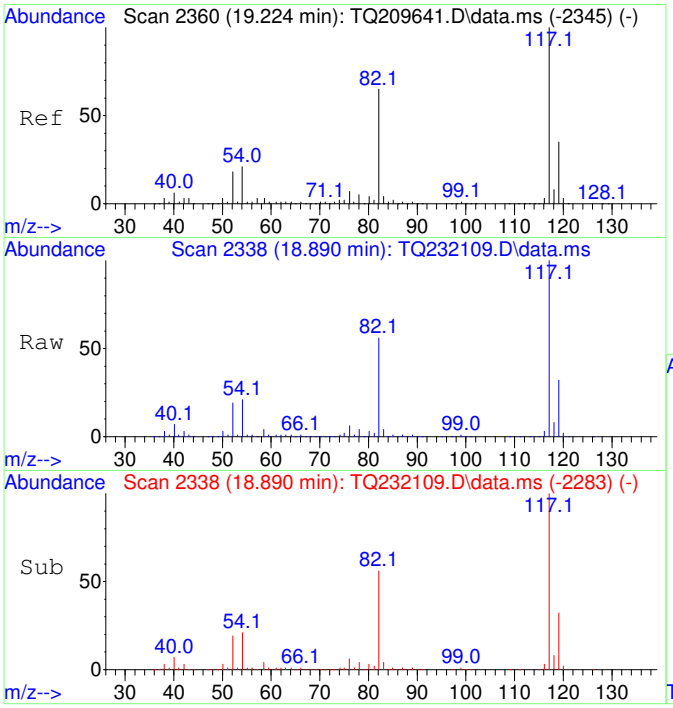


#51
Tetrachloroethylene
Concen: 0.05 ppbv
RT: 17.567 min Scan# 2121
Delta R.T. -0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion:166 Resp: 3326

Ion	Ratio	Lower	Upper
166	100		
164	78.1	51.0	106.0
129	69.2	48.1	99.9
131	74.6	46.3	96.3

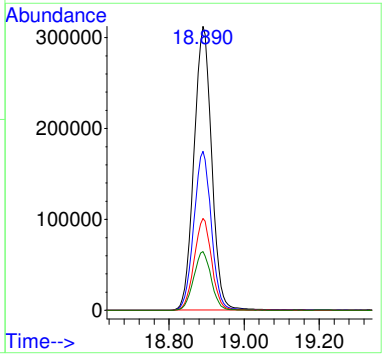


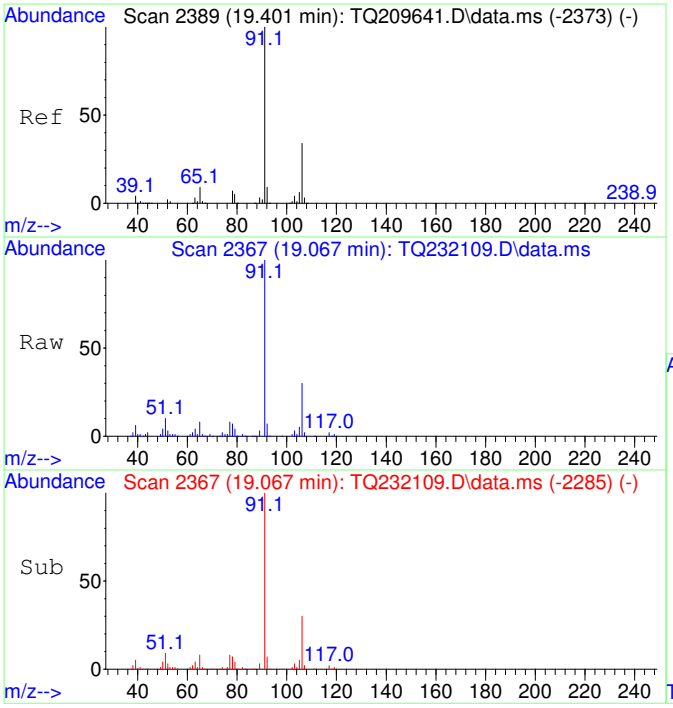


#54
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.890 min Scan# 2338
Delta R.T. 0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion:117 Resp: 1020767

Ion	Ratio	Lower	Upper
117	100		
82	55.9	37.1	77.1
119	32.1	22.1	45.9
54	20.7	13.8	28.6

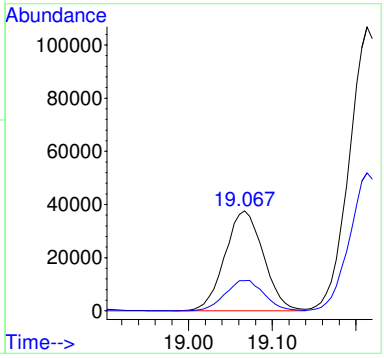


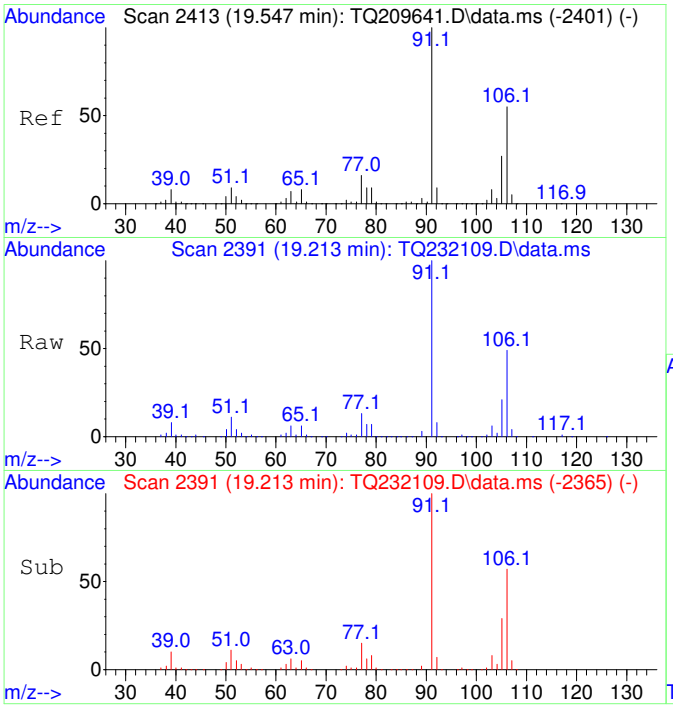


#57
Ethylbenzene
Concen: 0.73 ppbv
RT: 19.067 min Scan# 2367
Delta R.T. -0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 91 Resp: 120156

Ion	Ratio	Lower	Upper
91	100		
106	30.8	20.5	42.7

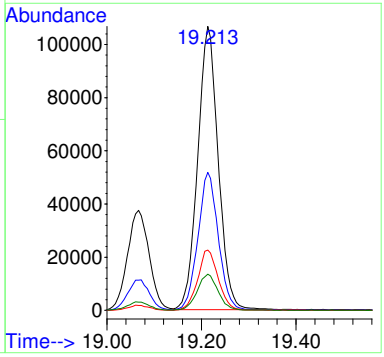


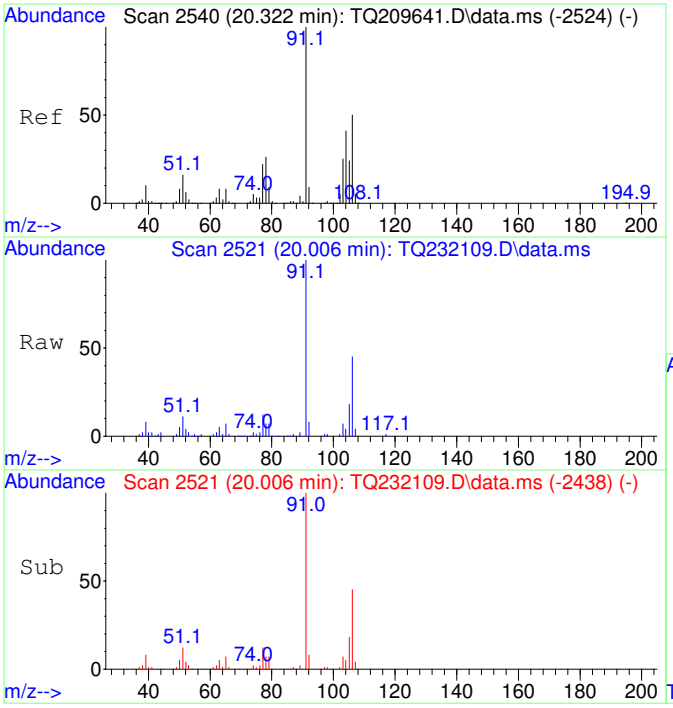


#58
p- & m-Xylenes
Concen: 2.59 ppbv
RT: 19.213 min Scan# 2391
Delta R.T. -0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 91 Resp: 322037

Ion	Ratio	Lower	Upper
91	100		
106	49.1	32.6	67.8
105	21.4	14.5	30.1
77	13.1	8.5	17.7

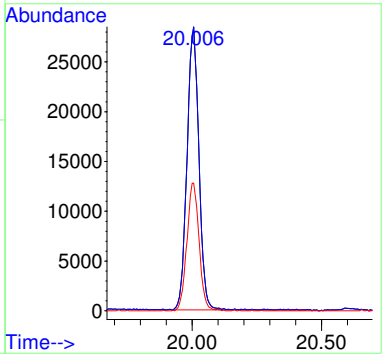


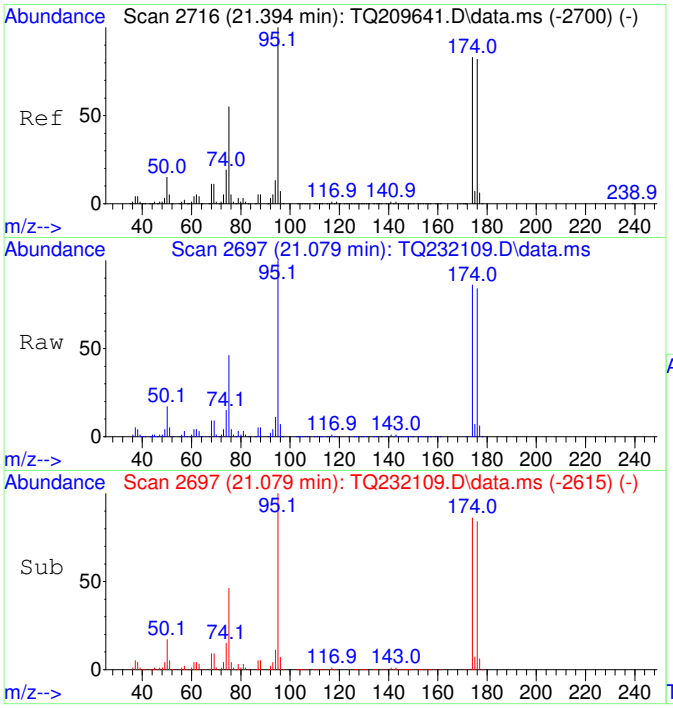


#59
o-Xylene
Concen: 0.71 ppbv
RT: 20.006 min Scan# 2521
Delta R.T. 0.006 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 91 Resp: 90759

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	46.2	38.2	57.2

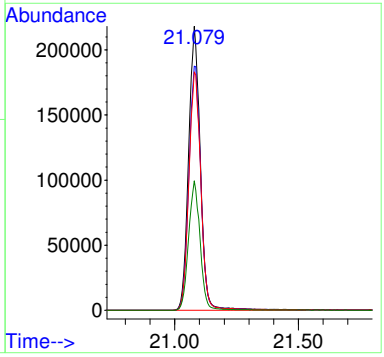




#65
p-Bromofluorobenzene
Concen: 9.29 ppbv
RT: 21.079 min Scan# 2697
Delta R.T. -0.000 min
Lab File: TQ232109.D
Acq: 18 Apr 2025 12:49 am

Tgt Ion: 95 Resp: 720406

Ion	Ratio	Lower	Upper
95	100		
174	88.7	53.2	110.6
176	86.1	51.6	107.2
75	45.4	30.7	63.7



FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.46	94.6	70 - 130
1,1,1-Trichloroethane	10.0	10.4	104	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.72	97.2	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.3	103	70 - 130
1,1,2-Trichloroethane	10.0	10.1	101	70 - 130
1,1-Dichloroethane	10.0	10.0	100	70 - 130
1,1-Dichloroethylene	10.0	10.2	102	70 - 130
1,2,4-Trichlorobenzene	10.0	9.20	92.0	70 - 130
1,2,4-Trimethylbenzene	10.0	9.88	98.8	70 - 130
1,2-Dibromoethane	10.0	10.1	101	70 - 130
1,2-Dichlorobenzene	10.0	9.54	95.4	70 - 130
1,2-Dichloroethane	10.0	10.2	102	70 - 130
1,2-Dichloropropane	10.0	9.61	96.1	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.8	108	70 - 130
1,3,5-Trimethylbenzene	10.0	10.1	101	70 - 130
1,3-Butadiene	10.0	10.4	104	70 - 130
1,3-Dichlorobenzene	10.0	10.2	102	70 - 130
1,3-Dichloropropane	10.0	9.54	95.4	70 - 130
1,4-Dichlorobenzene	10.0	10.5	105	70 - 130
1,4-Dioxane	10.0	10.0	100	70 - 130
2,2,4-Trimethylpentane	10.0	10.1	101	70 - 130
2-Butanone	10.0	9.31	93.1	70 - 130
2-Hexanone	10.0	9.73	97.3	70 - 130
3-Chloropropene	10.0	8.62	86.2	70 - 130
4-Methyl-2-pentanone	10.0	9.43	94.3	70 - 130
Acetone	10.0	8.85	88.5	70 - 130
Acrylonitrile	10.0	9.50	95.0	70 - 130
Benzene	10.0	10.0	100	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Benzyl chloride	10.0	10.8	108	70 - 130
Bromodichloromethane	10.0	9.70	97.0	70 - 130
Bromoform	10.0	10.6	106	70 - 130
Bromomethane	10.0	10.0	100	70 - 130
Carbon disulfide	10.0	9.57	95.7	70 - 130
Carbon tetrachloride	10.0	8.29	82.9	70 - 130
Chlorobenzene	10.0	9.99	99.9	70 - 130
Chloroethane	10.0	9.71	97.1	70 - 130
Chloroform	10.0	10.1	101	70 - 130
Chloromethane	10.0	9.90	99.0	70 - 130
cis-1,2-Dichloroethylene	10.0	9.62	96.2	70 - 130
cis-1,3-Dichloropropylene	10.0	9.19	91.9	70 - 130
Cyclohexane	10.0	9.58	95.8	70 - 130
Dibromochloromethane	10.0	9.81	98.1	70 - 130
Dichlorodifluoromethane	10.0	10.7	107	70 - 130
Ethyl acetate	10.0	9.46	94.6	70 - 130
Ethyl Benzene	10.0	9.68	96.8	70 - 130
Hexachlorobutadiene	10.0	8.01	80.1	70 - 130
Isopropanol	10.0	8.97	89.7	70 - 130
Methyl Methacrylate	10.0	9.35	93.5	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	10.0	100	70 - 130
Methylene chloride	10.0	10.2	102	70 - 130
Naphthalene	10.0	8.54	85.4	70 - 130
n-Heptane	10.0	9.63	96.3	70 - 130
n-Hexane	10.0	9.66	96.6	70 - 130
o-Xylene	10.0	9.72	97.2	70 - 130
p- & m- Xylenes	20.0	20.2	101	70 - 130
p-Ethyltoluene	10.0	10.3	103	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Matrix:	Air		
Batch:	BD51311	Laboratory ID:	BD51311-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Propylene	10.0	9.63	96.3	70 - 130
Styrene	10.0	9.82	98.2	70 - 130
Tetrachloroethylene	10.0	9.74	97.4	70 - 130
Tetrahydrofuran	10.0	9.81	98.1	70 - 130
Toluene	10.0	9.10	91.0	70 - 130
trans-1,2-Dichloroethylene	10.0	10.3	103	70 - 130
trans-1,3-Dichloropropylene	10.0	9.49	94.9	70 - 130
Trichloroethylene	10.0	9.38	93.8	70 - 130
Trichlorofluoromethane (Freon 11)	10.0	10.3	103	70 - 130
Vinyl acetate	10.0	6.90	69.0 *	70 - 130
Vinyl bromide	10.0	10.7	107	70 - 130
Vinyl Chloride	10.0	10.7	107	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS RAW DATA

SDG: 25C1814
CLASS: AIR
METHOD: EPA TO-15

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232096.D
Acq On : 17 Apr 2025 9:25 am
Operator : YR
Sample : BD51311-BS1
Misc : QBTO2040525A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 09:59:46 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	370441	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1194716	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1002027	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	780002	10.24	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.40%				
Target Compounds							Qvalue
2) Propylene	4.789	42	138996	9.63	ppbv		97
3) Dichlorodifluoromethane	4.868	85	760972	10.71	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.143	85	784470	10.79	ppbv		95
5) Chloromethane	5.356	50	216092	9.90	ppbv		99
6) Vinyl Chloride	5.624	62	239011	10.66	ppbv		99
7) 1,3-Butadiene	5.704	54	177626	10.42	ppbv		95
8) Bromomethane	6.496	94	286244	10.05	ppbv		100
9) Chloroethane	6.673	64	119425	9.71	ppbv		94
10) Vinyl Bromide	7.136	106	276274	10.67	ppbv		99
11) Trichlorofluoromethane	7.258	101	756545	10.31	ppbv		100
12) Isopropanol	7.801	45	548118	8.97	ppbv		100
13) Acrolein	7.892	56	113155	9.39	ppbv	#	56
14) Acetone	8.002	43	454821	8.85	ppbv		94
15) Freon-113	8.136	101	621987	10.27	ppbv		99
16) 1,1-Dichloroethylene	8.362	61	490881	10.21	ppbv		99
17) 3-Chloropropene	8.959	41	306051	8.62	ppbv		91
18) Methylene Chloride	9.118	49	337392	10.18	ppbv		98
19) Acrylonitrile	9.221	53	204574	9.50	ppbv	#	59
20) Carbon disulfide	9.240	76	822312	9.57	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.526	73	817572	10.03	ppbv		98
22) trans-1,2-Dichloroethy...	9.721	61	444839	10.27	ppbv		98
23) Hexane	10.008	57	404756	9.66	ppbv		97
24) Vinyl Acetate	10.343	43	492235	6.90	ppbv	#	99
25) 1,1-Dichloroethane	10.380	63	531346	10.04	ppbv	#	68
26) 2-Butanone	11.007	43	560481	9.31	ppbv		95
27) Ethyl Acetate	11.312	43	680385	9.46	ppbv	#	43
28) cis-1,2-Dichloroethylene	11.385	61	443153	9.62	ppbv		91
29) Chloroform	11.660	83	657647	10.12	ppbv		99
30) Tetrahydrofuran	11.983	42	335674	9.81	ppbv		96
31) 1,1,1-Trichlorethane	12.397	97	690163	10.42	ppbv		100
32) Cyclohexane	12.568	56	453433	9.58	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	1445323	10.10	ppbv		97
34) Carbon Tetrachloride	12.879	117	505800	8.29	ppbv		100
35) 1,2-Dichloroethane	12.964	62	433680	10.20	ppbv		100
36) Benzene	13.092	78	1037422	10.04	ppbv		92
37) n-Heptane	13.111	43	549104	9.63	ppbv	#	73
39) Trichloroethylene	14.159	95	451169	9.38	ppbv		96
40) 1,2-Dichloropropane	14.397	63	358037	9.61	ppbv		97
41) Methyl Methacrylate	14.428	69	327031	9.35	ppbv	#	69
42) 1,4-Dioxane	14.732	88	224326	10.02	ppbv	#	100
43) Bromodichloromethane	14.775	83	701869	9.70	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	754511	9.43	ppbv	#	55
45) cis-1,3-Dichloropropene	15.696	75	519761	9.19	ppbv		99
46) Toluene	16.360	91	1167729	9.10	ppbv		98
47) trans-1,3-Dichloropropene	16.525	75	473240	9.49	ppbv		99
48) 1,1,2-Trichlorethane	16.823	97	422634	10.08	ppbv		99
49) 2-Hexanone	16.836	43	707534	9.73	ppbv	#	97
50) 1,3-Dichloropropane	17.256	76	524090	9.54	ppbv	#	90
51) Tetrachloroethylene	17.567	166	606809	9.74	ppbv		100
52) Dibromchloromethane	17.567	129	445987	9.81	ppbv	#	6
53) 1,2-Dibromoethane	18.152	107	653117	10.13	ppbv		100
55) Chlorobenzene	18.957	112	957268	9.99	ppbv	#	100

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232096.D
Acq On : 17 Apr 2025 9:25 am
Operator : YR
Sample : BD51311-BS1
Misc : QBTO2040525A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 09:59:46 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

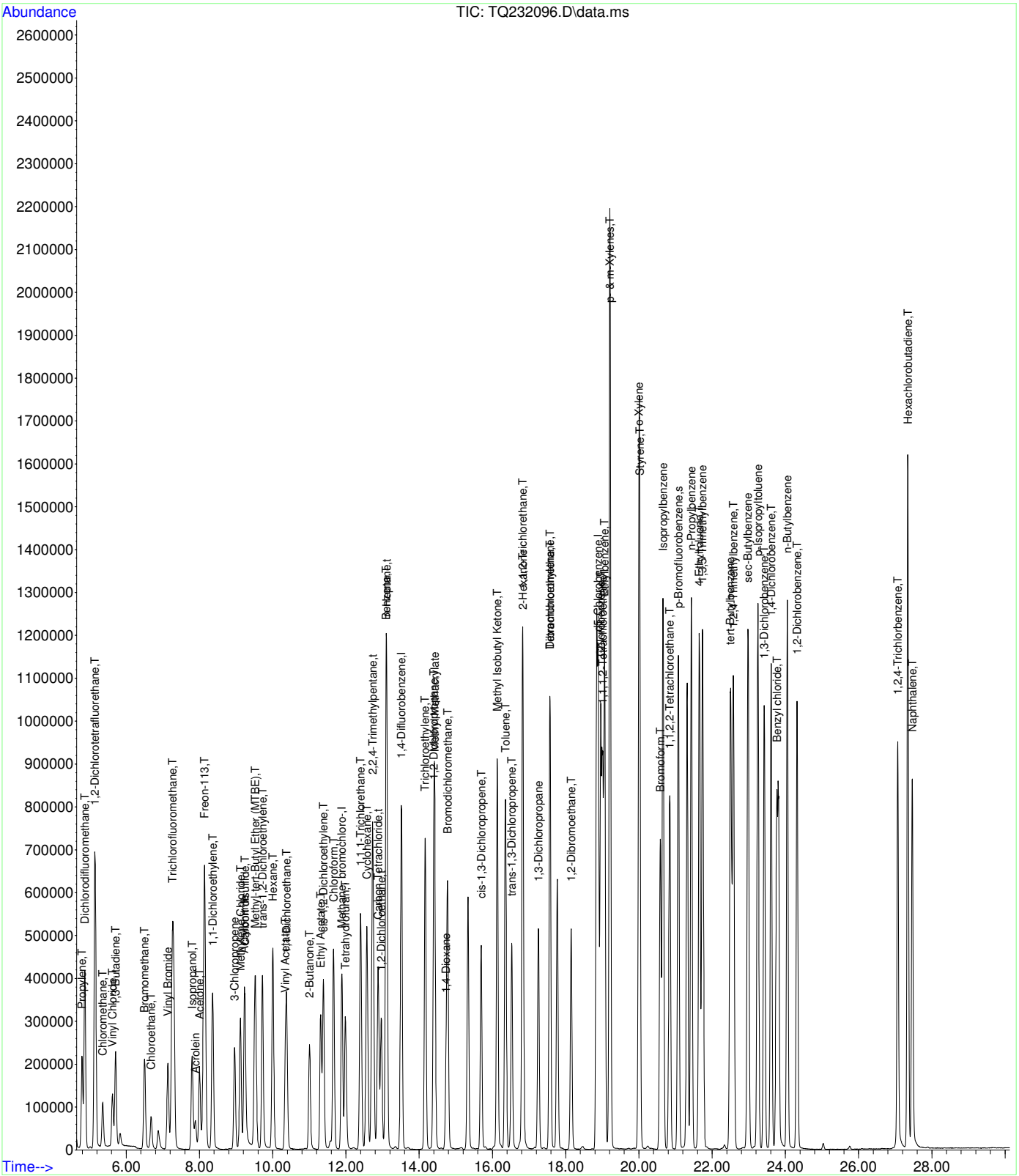
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	488204	9.46	ppbv		94
57) Ethylbenzene	19.061	91	1554408	9.68	ppbv		98
58) p- & m-Xylenes	19.207	91	2463899	20.20	ppbv		98
59) o-Xylene	20.000	91	1211664	9.72	ppbv		99
60) Styrene	20.024	104	891995	9.82	ppbv	#	100
61) Bromoform	20.585	173	686004	10.57	ppbv		99
62) n-Propylbenzene	21.432	91	2073745	10.34	ppbv		99
63) Isopropylbenzene	20.658	105	1694360	9.85	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	893765	9.72	ppbv		100
66) 4-Ethyltoluene	21.646	105	1696821	10.33	ppbv		99
67) 1,3,5-Trimethylbenzene	21.737	105	1393444	10.12	ppbv		99
68) tert-Butylbenzene	22.493	119	1360722	9.33	ppbv		88
69) 1,2,4-Trimethylbenzene	22.578	105	1372800	9.88	ppbv	#	95
70) sec-Butylbenzene	22.975	105	1911640	9.68	ppbv	#	96
71) p-Isopropyltoluene	23.255	119	1532779	9.72	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	911729	10.23	ppbv		99
73) 1,4-Dichlorobenzene	23.615	146	957932	10.51	ppbv		99
74) Benzyl chloride	23.767	91	1158522	10.85	ppbv		99
75) n-Butylbenzene	24.054	91	1388699	9.78	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	846480	9.54	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	572932	9.20	ppbv		98
78) Hexachlorobutadiene	27.346	225	604088	8.01	ppbv		96
79) Naphthalene	27.468	128	1322580	8.54	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232096.D
Acq On : 17 Apr 2025 9:25 am
Operator : YR
Sample : BD51311-BS1
Misc : QBTO2040525A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 09:59:46 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



FORM IV **PREPARATION BATCH SUMMARY**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 25C1814

Client: Hydro Tech Environmental Project: 240047 32-01 57th St Queens, NY

Batch: BD51311 Batch Matrix: Air Preparation: EPA TO15 PREP

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
IA-1 20250328	25C1814-01	TQ232107.D	04/17/25 07:45	
IA-2 20250328	25C1814-02	TQ232108.D	04/17/25 07:45	
OA-1 20250328	25C1814-03	TQ232109.D	04/17/25 07:45	
Blank	BD51311-BLK1	TQ232098.D	04/17/25 07:45	
LCS	BD51311-BS1	TQ232096.D	04/17/25 07:45	

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.69	U
71-55-6	1,1,1-Trichloroethane	0.55	U
79-34-5	1,1,2,2-Tetrachloroethane	0.69	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	U
79-00-5	1,1,2-Trichloroethane	0.55	U
75-34-3	1,1-Dichloroethane	0.40	U
75-35-4	1,1-Dichloroethylene	0.099	U
120-82-1	1,2,4-Trichlorobenzene	0.74	U
95-63-6	1,2,4-Trimethylbenzene	0.49	U
106-93-4	1,2-Dibromoethane	0.77	U
95-50-1	1,2-Dichlorobenzene	0.60	U
107-06-2	1,2-Dichloroethane	0.40	U
78-87-5	1,2-Dichloropropane	0.46	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.70	U
108-67-8	1,3,5-Trimethylbenzene	0.49	U
106-99-0	1,3-Butadiene	0.66	U
541-73-1	1,3-Dichlorobenzene	0.60	U
142-28-9	1,3-Dichloropropane	0.46	U
106-46-7	1,4-Dichlorobenzene	0.60	U
123-91-1	1,4-Dioxane	0.72	U
540-84-1	2,2,4-Trimethylpentane	0.23	U
78-93-3	2-Butanone	0.29	U
591-78-6	2-Hexanone	0.82	U
107-05-1	3-Chloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	0.41	U
67-64-1	Acetone	1.9	U
107-13-1	Acrylonitrile	2.8	U
71-43-2	Benzene	0.32	U
100-44-7	Benzyl chloride	0.52	U
75-27-4	Bromodichloromethane	0.67	U

FORM I

METHOD BLANK DATA SHEET
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	0.39	U
75-15-0	Carbon disulfide	0.31	U
56-23-5	Carbon tetrachloride	0.16	U
108-90-7	Chlorobenzene	0.46	U
75-00-3	Chloroethane	0.26	U
67-66-3	Chloroform	0.49	U
74-87-3	Chloromethane	0.21	U
156-59-2	cis-1,2-Dichloroethylene	0.099	U
10061-01-5	cis-1,3-Dichloropropylene	0.45	U
110-82-7	Cyclohexane	0.34	U
124-48-1	Dibromochloromethane	0.85	U
75-71-8	Dichlorodifluoromethane	0.49	U
141-78-6	Ethyl acetate	0.72	U
100-41-4	Ethyl Benzene	0.43	U
87-68-3	Hexachlorobutadiene	1.1	U
67-63-0	Isopropanol	1.5	U
80-62-6	Methyl Methacrylate	0.41	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.36	U
75-09-2	Methylene chloride	2.1	U
91-20-3	Naphthalene	1.0	U
142-82-5	n-Heptane	0.41	U
110-54-3	n-Hexane	0.35	U
95-47-6	o-Xylene	0.43	U
179601-23-1	p- & m- Xylenes	0.87	U
622-96-8	p-Ethyltoluene	0.49	U
115-07-1	Propylene	0.17	U
100-42-5	Styrene	0.43	U
127-18-4	Tetrachloroethylene	0.68	U
109-99-9	Tetrahydrofuran	0.59	U

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	25C1814
Client:	Hydro Tech Environmental			Project:	240047 32-01 57th St Queens, NY
Matrix:	Air	Laboratory ID:	BD51311-BLK1	File ID:	TQ232098.D
Prepared:	04/17/25 07:45	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/17/25 11:21	Instrument:	TO15_AIR2		
Batch:	BD51311	Sequence:	S5D1718	Calibration:	SC50042

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
108-88-3	Toluene	0.38	U
156-60-5	trans-1,2-Dichloroethylene	0.40	U
10061-02-6	trans-1,3-Dichloropropylene	0.45	U
79-01-6	Trichloroethylene	0.13	U
75-69-4	Trichlorofluoromethane (Freon 11)	0.56	U
108-05-4	Vinyl acetate	0.35	U
593-60-2	Vinyl bromide	0.44	U
75-01-4	Vinyl Chloride	0.13	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	339570	11.898	363612	11.885	
ISTD: 1,4-Difluorobenzene	1134816	13.513	1166275	13.507	
ISTD: d5-Chlorobenzene	895390	18.89	1010195	18.884	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232098.D
Acq On : 17 Apr 2025 11:21 am
Operator : YR
Sample : BD51311-BLK1
Misc : QBTO2040525A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 11:57:59 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

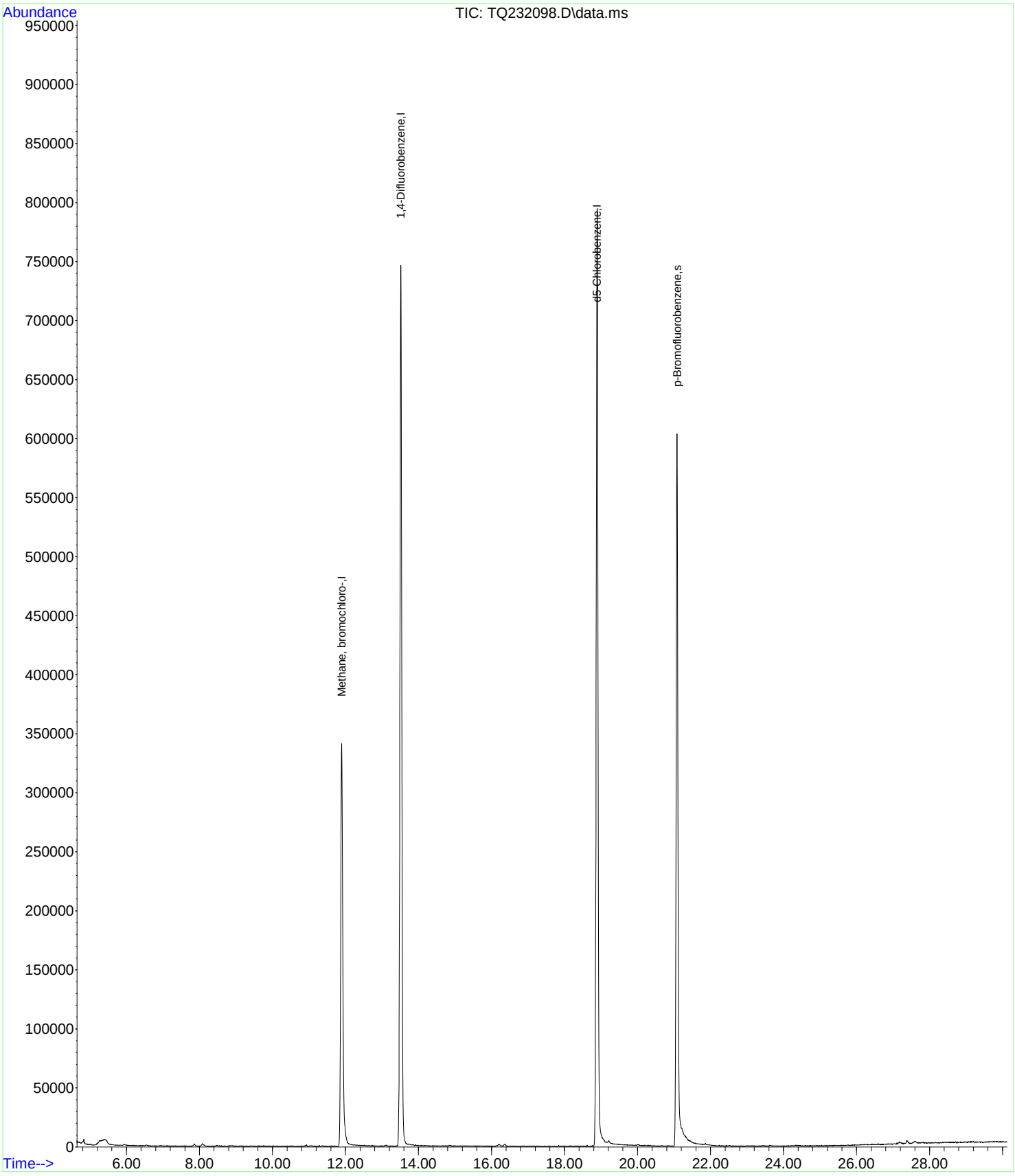
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	11.898	49	339570	10.00	ppbv	0.01
38) 1,4-Difluorobenzene	13.513	114	1134816	10.00	ppbv	0.00
54) d5-Chlorobenzene	18.890	117	895390	10.00	ppbv	0.00
System Monitoring Compounds						
65) p-Bromofluorobenzene	21.085	95	462325	6.79	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 67.90%#			
Target Compounds						Qvalue

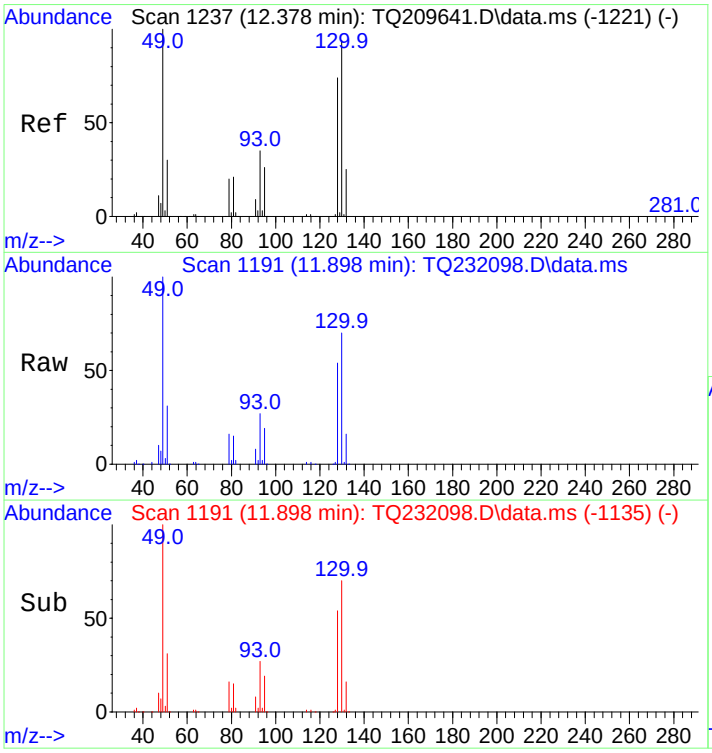
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232098.D
Acq On : 17 Apr 2025 11:21 am
Operator : YR
Sample : BD51311-BLK1
Misc : QBTO2040525A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 11:57:59 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

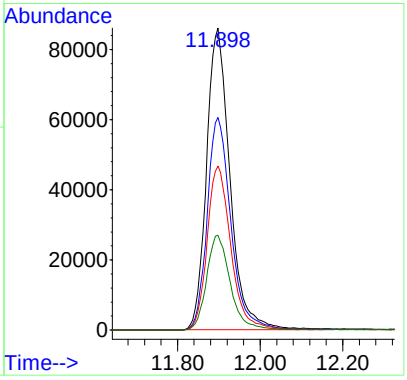


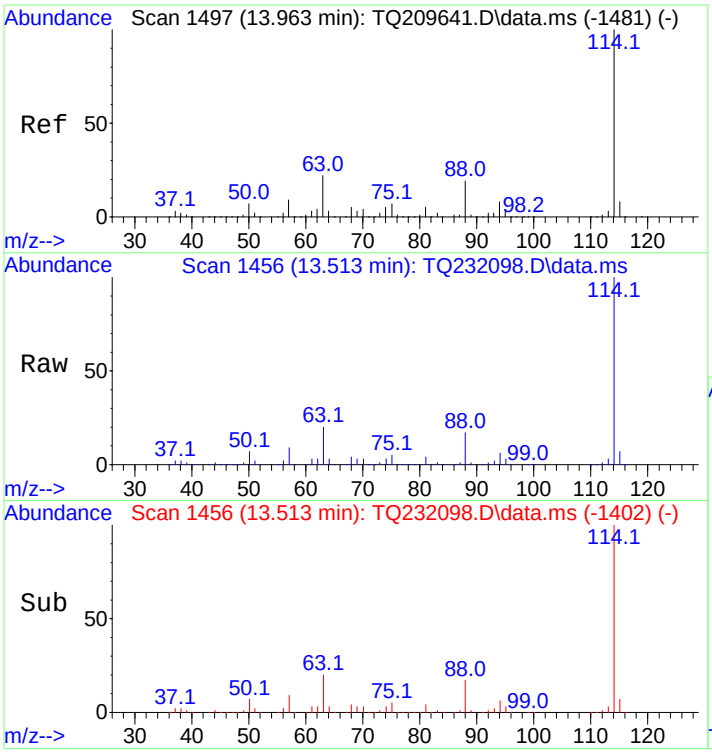


#1
Methane, bromochloro-
Concen: 10.00 ppbv
RT: 11.898 min Scan# 1191
Delta R.T. 0.013 min
Lab File: TQ232098.D
Acq: 17 Apr 2025 11:21 am

Tgt Ion: 49 Resp: 339570

Ion	Ratio	Lower	Upper
49	100		
130	71.9	48.1	99.9
128	55.5	38.3	79.5
51	32.0	20.3	42.3

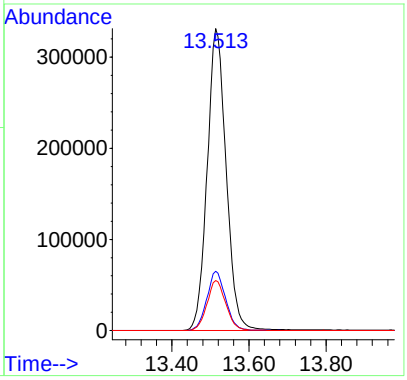


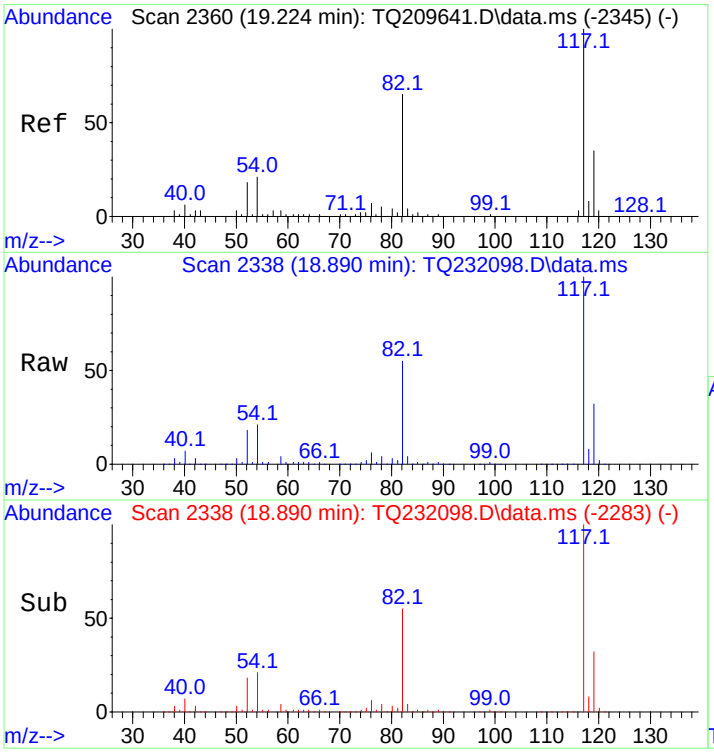


#38
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 13.513 min Scan# 1456
Delta R.T. 0.000 min
Lab File: TQ232098.D
Acq: 17 Apr 2025 11:21 am

Tgt Ion:114 Resp: 1134816

Ion	Ratio	Lower	Upper
114	100		
63	19.6	12.9	26.9
88	16.5	10.7	22.3

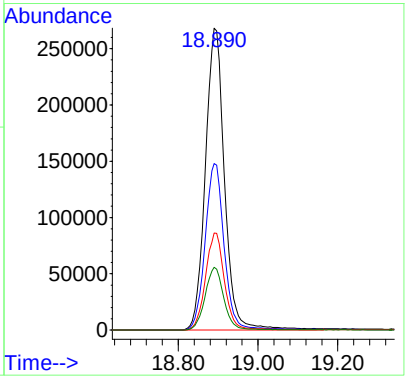


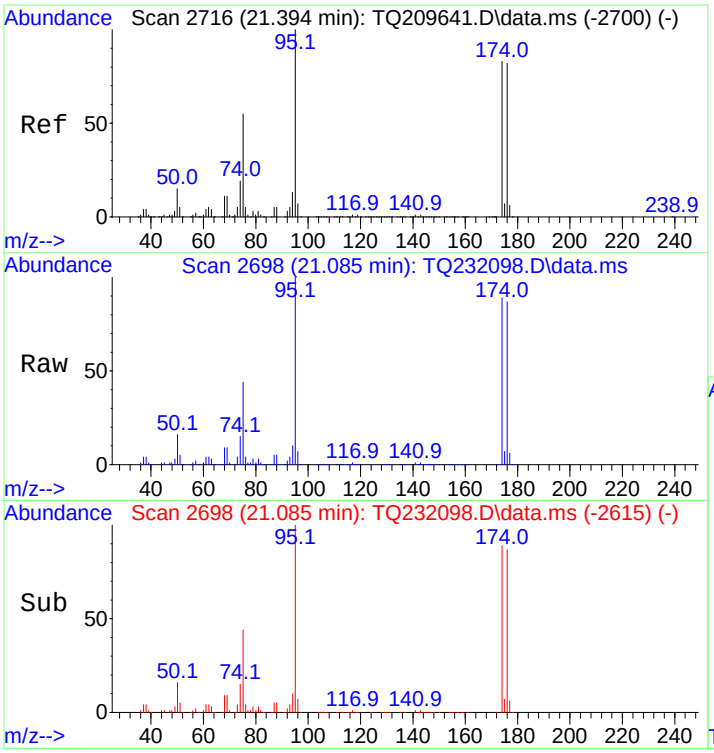


#54
d5-Chlorobenzene
Concen: 10.00 ppbv
RT: 18.890 min Scan# 2338
Delta R.T. 0.006 min
Lab File: TQ232098.D
Acq: 17 Apr 2025 11:21 am

Tgt Ion:117 Resp: 895390

Ion	Ratio	Lower	Upper
117	100		
82	55.2	37.1	77.1
119	32.1	22.1	45.9
54	20.5	13.8	28.6

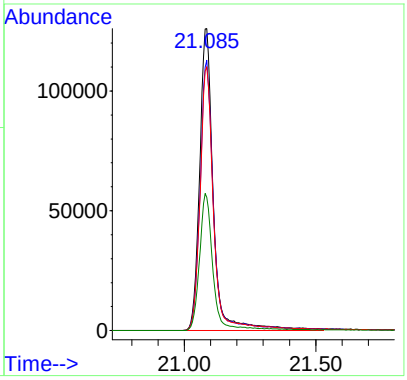




#65
p-Bromofluorobenzene
Concen: 6.79 ppbv
RT: 21.085 min Scan# 2698
Delta R.T. 0.006 min
Lab File: TQ232098.D
Acq: 17 Apr 2025 11:21 am

Tgt Ion: 95 Resp: 462325

Ion	Ratio	Lower	Upper
95	100		
174	89.0	53.2	110.6
176	86.8	51.6	107.2
75	45.0	30.7	63.7



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232098.D
Acq On : 17 Apr 2025 11:21 am
Operator : YR
Sample : BD51311-BLK1
Misc : QBTO2040525A
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

						--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc	

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Lab File ID:	TQ231730.D	Injection Date:	03/27/25
Instrument ID:	TO15_AIR2	Injection Time:	13:47
Sequence:	S5C3110	Lab Sample ID:	S5C3110-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	16.9	PASS
75	30 - 66% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.72	PASS
173	Less than 2% of 174	0	PASS
174	50 - 120% of 95	84.4	PASS
175	4 - 9% of 174	8.06	PASS
176	93 - 101% of 174	97.2	PASS
177	5 - 9% of 176	6.66	PASS

FORM V MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA TO-15

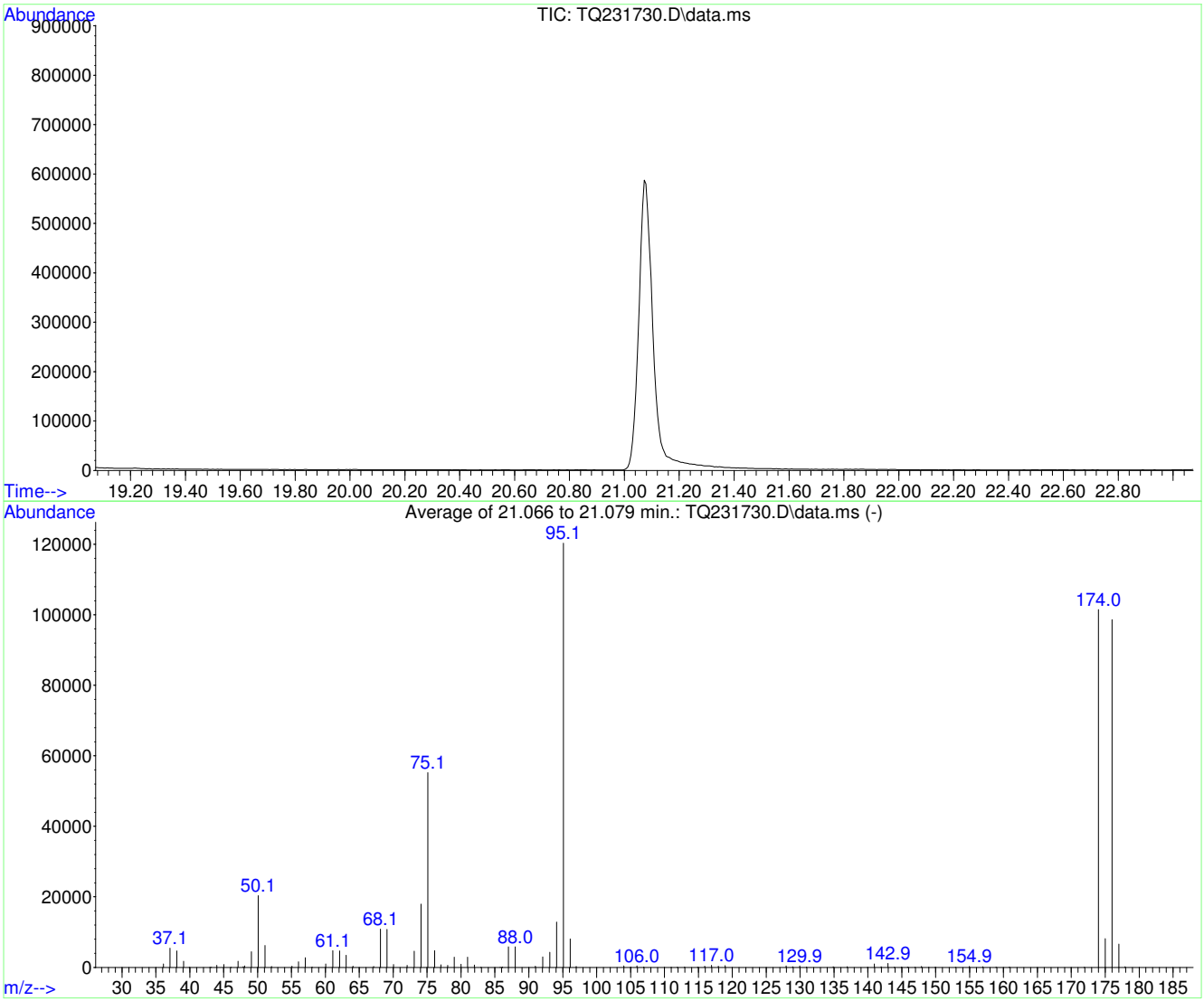
Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Lab File ID:	TQ232094.D	Injection Date:	04/17/25
Instrument ID:	TO15_AIR2	Injection Time:	07:39
Sequence:	S5D1718	Lab Sample ID:	S5D1718-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8 - 40% of 95	17	PASS
75	30 - 66% of 95	45.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.35	PASS
173	Less than 2% of 174	0	PASS
174	50 - 120% of 95	86.8	PASS
175	4 - 9% of 174	7.79	PASS
176	93 - 101% of 174	97.7	PASS
177	5 - 9% of 176	6.58	PASS

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231730.D
Acq On : 27 Mar 2025 1:47 pm
Operator : YR
Sample : SEQ-TUN1
Misc : QBTO2022225A
ALS Vial : 6 Sample Multiplier: 1

Integration File: rteintnew.p

Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Title : TO15 VOC Analysis
Last Update : Fri Mar 28 08:10:20 2025
InstName : TO15_AIR2



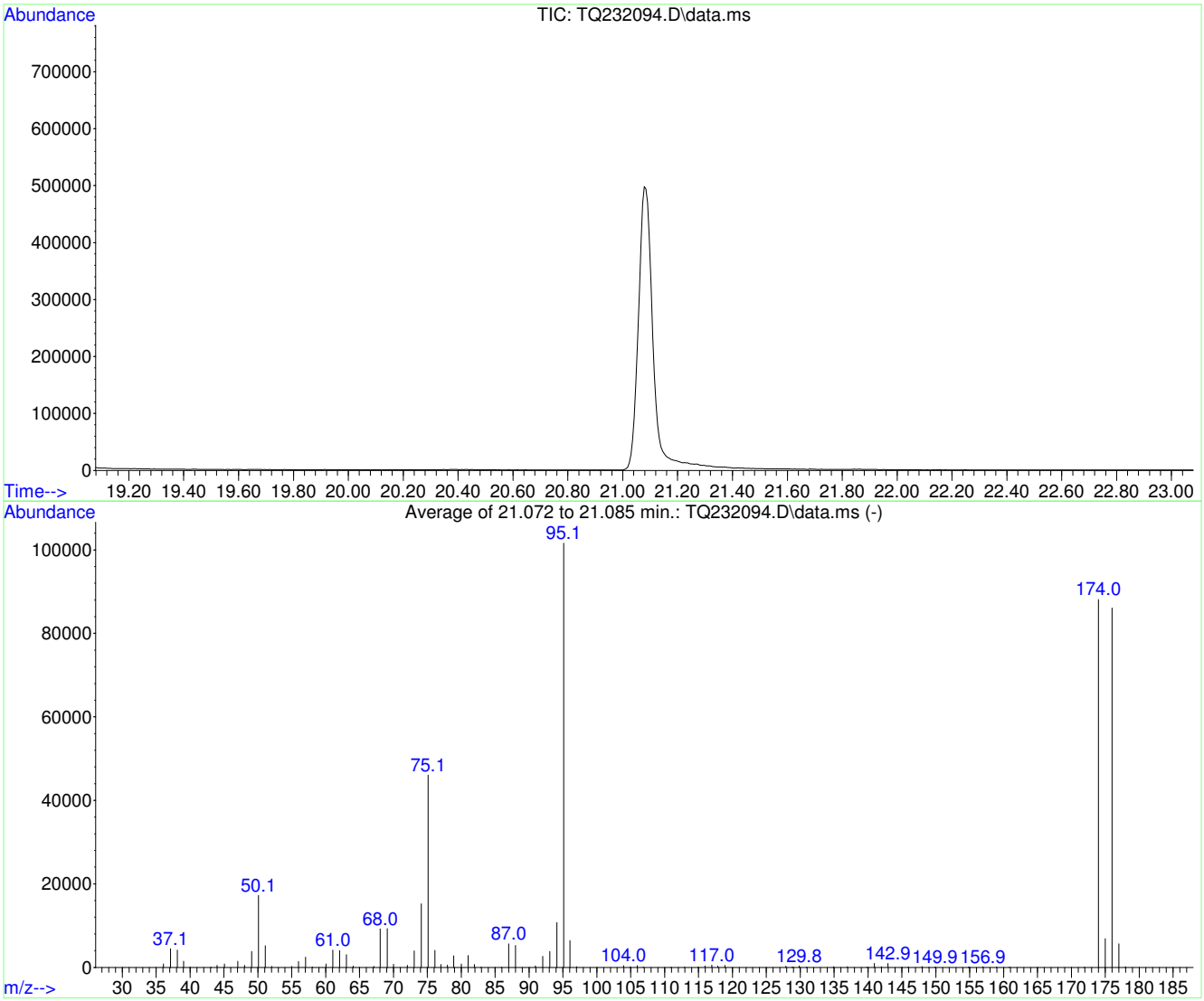
AutoFind: Scans 2695, 2696, 2697; Background Corrected with Scan 2681

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	20373	PASS
75	95	30	66	45.9	55264	PASS
95	95	100	100	100.0	120304	PASS
96	95	5	9	6.7	8082	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	84.4	101477	PASS
175	174	4	9	8.1	8177	PASS
176	174	93	101	97.2	98635	PASS
177	176	5	9	6.7	6573	PASS

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232094.D
Acq On : 17 Apr 2025 7:39 am
Operator : YR
Sample : SEQ-TUN1
Misc : QBTO2040525A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteintnew.p

Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Title : TO15 VOC Analysis
Last Update : Fri Mar 28 08:10:20 2025
InstName : TO15_AIR2



Spectrum Information: Average of 21.072 to 21.085 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.0	17264	PASS
75	95	30	66	45.4	46069	PASS
95	95	100	100	100.0	101584	PASS
96	95	5	9	6.3	6448	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.8	88141	PASS
175	174	4	9	7.8	6863	PASS
176	174	93	101	97.7	86107	PASS
177	176	5	9	6.6	5665	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Sequence: S5C3110
Instrument: TO15_AIR2
Calibration: SC50042

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5C3110-TUN1	TQ231730.D	03/27/25 13:47
Cal Standard	S5C3110-CAL1	TQ231731.D	03/27/25 14:39
Cal Standard	S5C3110-CAL2	TQ231732.D	03/27/25 15:30
Cal Standard	S5C3110-CAL3	TQ231733.D	03/27/25 16:21
Cal Standard	S5C3110-CAL4	TQ231734.D	03/27/25 17:12
Cal Standard	S5C3110-CAL5	TQ231735.D	03/27/25 18:04
Cal Standard	S5C3110-CAL6	TQ231736.D	03/27/25 18:58
Cal Standard	S5C3110-CAL7	TQ231737.D	03/27/25 19:54
Cal Standard	S5C3110-CAL8	TQ231738.D	03/27/25 20:52
Cal Standard	S5C3110-CAL9	TQ231739.D	03/27/25 21:52
Cal Standard	S5C3110-CALA	TQ231740.D	03/27/25 22:43
Cal Standard	S5C3110-CALB	TQ231741.D	03/27/25 23:35
Cal Standard	S5C3110-CALC	TQ231742.D	03/28/25 00:27
Cal Standard	S5C3110-CALD	TQ231743.D	03/28/25 01:21
Cal Standard	S5C3110-CALE	TQ231744.D	03/28/25 02:17
Cal Standard	S5C3110-CALF	TQ231745.D	03/28/25 03:15
Cal Standard	S5C3110-CALG	TQ231746.D	03/28/25 04:18
Secondary Cal Check	S5C3110-SCV1	TQ231751.D	03/28/25 08:37

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
		Calibration:	SC50042

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	S5D1718-TUN1	TQ232094.D	04/17/25 07:39
Calibration Check	S5D1718-CCV1	TQ232095.D	04/17/25 08:32
LCS	BD51311-BS1	TQ232096.D	04/17/25 09:25
Blank	BD51311-BLK1	TQ232098.D	04/17/25 11:21
IA-1 20250328	25C1814-01	TQ232107.D	04/17/25 22:40
IA-2 20250328	25C1814-02	TQ232108.D	04/17/25 23:44
OA-1 20250328	25C1814-03	TQ232109.D	04/18/25 00:49

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
Batch:	BD51311	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
IA-1 20250328 (25C1814-01)			Lab File ID: TQ232107.D			Analyzed: 04/17/25 22:40			
Bromochloromethane	371216	11.879	363612	11.885	102	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1119176	13.513	1166275	13.507	96	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	984233	18.89	1010195	18.884	97	60 - 140	0.0060	+/-0.33	
IA-2 20250328 (25C1814-02)			Lab File ID: TQ232108.D			Analyzed: 04/17/25 23:44			
Bromochloromethane	378872	11.885	363612	11.885	104	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1152807	13.513	1166275	13.507	99	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1024486	18.89	1010195	18.884	101	60 - 140	0.0060	+/-0.33	
OA-1 20250328 (25C1814-03)			Lab File ID: TQ232109.D			Analyzed: 04/18/25 00:49			
Bromochloromethane	379227	11.891	363612	11.885	104	60 - 140	0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1181102	13.513	1166275	13.507	101	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1020767	18.89	1010195	18.884	101	60 - 140	0.0060	+/-0.33	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5C3110	Instrument:	TO15_AIR2
Batch:	S5C3110	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S5C3110-CAL1)			Lab File ID: TQ231731.D			Analyzed: 03/27/25 14:39			
Bromochloromethane	417038	11.892	408707	11.885	102	60 - 140	0.0070	+/-0.33	
ISTD: 1,4-Difluorobenzene	1311473	13.513	1286475	13.513	102	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1070608	18.89	1106307	18.884	97	60 - 140	0.0060	+/-0.33	
Cal Standard (S5C3110-CAL2)			Lab File ID: TQ231732.D			Analyzed: 03/27/25 15:30			
Bromochloromethane	411994	11.879	408707	11.885	101	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1231087	13.507	1286475	13.513	96	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1054476	18.884	1106307	18.884	95	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CAL3)			Lab File ID: TQ231733.D			Analyzed: 03/27/25 16:21			
Bromochloromethane	403010	11.885	408707	11.885	99	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1295870	13.507	1286475	13.513	101	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1057002	18.884	1106307	18.884	96	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CAL4)			Lab File ID: TQ231734.D			Analyzed: 03/27/25 17:12			
Bromochloromethane	401148	11.885	408707	11.885	98	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1205540	13.507	1286475	13.513	94	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1077573	18.884	1106307	18.884	97	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CAL5)			Lab File ID: TQ231735.D			Analyzed: 03/27/25 18:04			
Bromochloromethane	398865	11.885	408707	11.885	98	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1214296	13.507	1286475	13.513	94	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1092346	18.884	1106307	18.884	99	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CAL6)			Lab File ID: TQ231736.D			Analyzed: 03/27/25 18:58			
Bromochloromethane	410310	11.873	408707	11.885	100	60 - 140	-0.0120	+/-0.33	
ISTD: 1,4-Difluorobenzene	1290724	13.507	1286475	13.513	100	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1056942	18.884	1106307	18.884	96	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CAL7)			Lab File ID: TQ231737.D			Analyzed: 03/27/25 19:54			
Bromochloromethane	417169	11.879	408707	11.885	102	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1279753	13.507	1286475	13.513	99	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1064547	18.89	1106307	18.884	96	60 - 140	0.0060	+/-0.33	
Cal Standard (S5C3110-CAL8)			Lab File ID: TQ231738.D			Analyzed: 03/27/25 20:52			
Bromochloromethane	409006	11.879	408707	11.885	100	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1264786	13.513	1286475	13.513	98	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1086656	18.89	1106307	18.884	98	60 - 140	0.0060	+/-0.33	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5C3110	Instrument:	TO15_AIR2
Batch:	S5C3110	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (S5C3110-CAL9)			Lab File ID: TQ231739.D			Analyzed: 03/27/25 21:52			
Bromochloromethane	409933	11.873	408707	11.885	100	60 - 140	-0.0120	+/-0.33	
ISTD: 1,4-Difluorobenzene	1264378	13.507	1286475	13.513	98	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1139984	18.884	1106307	18.884	103	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CALA)			Lab File ID: TQ231740.D			Analyzed: 03/27/25 22:43			
Bromochloromethane	406154	11.873	408707	11.885	99	60 - 140	-0.0120	+/-0.33	
ISTD: 1,4-Difluorobenzene	1269928	13.501	1286475	13.513	99	60 - 140	-0.0120	+/-0.33	
ISTD: d5-Chlorobenzene	1065318	18.884	1106307	18.884	96	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CALB)			Lab File ID: TQ231741.D			Analyzed: 03/27/25 23:35			
Bromochloromethane	403223	11.879	408707	11.885	99	60 - 140	-0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1257368	13.507	1286475	13.513	98	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1086398	18.884	1106307	18.884	98	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CALC)			Lab File ID: TQ231742.D			Analyzed: 03/28/25 00:27			
Bromochloromethane	408707	11.885	408707	11.885	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1286475	13.513	1286475	13.513	100	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1106307	18.884	1106307	18.884	100	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CALD)			Lab File ID: TQ231743.D			Analyzed: 03/28/25 01:21			
Bromochloromethane	379196	11.885	408707	11.885	93	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1172002	13.513	1286475	13.513	91	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1048047	18.89	1106307	18.884	95	60 - 140	0.0060	+/-0.33	
Cal Standard (S5C3110-CALE)			Lab File ID: TQ231744.D			Analyzed: 03/28/25 02:17			
Bromochloromethane	401223	11.891	408707	11.885	98	60 - 140	0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1321488	13.519	1286475	13.513	103	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1055647	18.884	1106307	18.884	95	60 - 140	0.0000	+/-0.33	
Cal Standard (S5C3110-CALF)			Lab File ID: TQ231745.D			Analyzed: 03/28/25 03:15			
Bromochloromethane	397050	11.892	408707	11.885	97	60 - 140	0.0070	+/-0.33	
ISTD: 1,4-Difluorobenzene	1264367	13.513	1286475	13.513	98	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1081862	18.89	1106307	18.884	98	60 - 140	0.0060	+/-0.33	
Cal Standard (S5C3110-CALG)			Lab File ID: TQ231746.D			Analyzed: 03/28/25 04:18			
Bromochloromethane	396692	11.885	408707	11.885	97	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1238539	13.513	1286475	13.513	96	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1084911	18.89	1106307	18.884	98	60 - 140	0.0060	+/-0.33	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5C3110	Instrument:	TO15_AIR2
Batch:	S5C3110	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (S5C3110-SCV1)			Lab File ID: TQ231751.D			Analyzed: 03/28/25 08:37			
Bromochloromethane	406966	11.885	408707	11.885	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1260213	13.507	1286475	13.513	98	60 - 140	-0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	1099814	18.89	1106307	18.884	99	60 - 140	0.0060	+/-0.33	

FORM VIII INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Sequence:	S5D1718	Instrument:	TO15_AIR2
Batch:	S5D1718	Calibration:	SC50042

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S5D1718-CCV1)			Lab File ID: TQ232095.D			Analyzed: 04/17/25 08:32			
Bromochloromethane	363612	11.885				60 - 140		+/-0.33	
ISTD: 1,4-Difluorobenzene	1166275	13.507				60 - 140		+/-0.33	
ISTD: d5-Chlorobenzene	1010195	18.884				60 - 140		+/-0.33	
LCS (BD51311-BS1)			Lab File ID: TQ232096.D			Analyzed: 04/17/25 09:25			
Bromochloromethane	370441	11.885	363612	11.885	102	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1194716	13.507	1166275	13.507	102	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1002027	18.89	1010195	18.884	99	60 - 140	0.0060	+/-0.33	
Blank (BD51311-BLK1)			Lab File ID: TQ232098.D			Analyzed: 04/17/25 11:21			
Bromochloromethane	339570	11.898	363612	11.885	93	60 - 140	0.0130	+/-0.33	
ISTD: 1,4-Difluorobenzene	1134816	13.513	1166275	13.507	97	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	895390	18.89	1010195	18.884	89	60 - 140	0.0060	+/-0.33	

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Hydro Tech Environmental

Calibration: SC50042

SDG: 25C1814

Project: 240047 32-01 57th St Queens, NY

Instrument: TO15_AIR2

Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.025		0.05		0.1	0.5188259	0.2	0.5210784	0.5	0.5088864	1	0.5237752
1,1,1-Trichloroethane	0.025		0.05		0.1	1.94288	0.2	1.816537	0.5	1.720632	1	1.708001
1,1,2,2-Tetrachloroethane	0.025		0.05		0.1	0.9526945	0.2	0.9203553	0.5	0.8983784	1	0.9188678
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.025		0.05		0.1	1.769931	0.2	1.754839	0.5	1.588959	1	1.522434
1,1,2-Trichloroethane	0.025		0.05		0.1	0.3390772	0.2	0.3837699	0.5	0.3451053	1	0.3566138
1,1-Dichloroethane	0.025		0.05		0.1	1.577628	0.2	1.458813	0.5	1.379214	1	1.372596
1,1-Dichloroethylene	0.025	1.479961	0.05	1.455846	0.1	1.366219	0.2	1.256768	0.5	1.234302	1	1.197655
1,2,4-Trichlorobenzene	0.025		0.05		0.1	0.8927135	0.2	0.670813	0.5	0.4640654	1	0.5087129
1,2,4-Trimethylbenzene	0.025		0.05		0.1	1.40539	0.2	1.357263	0.5	1.317934	1	1.27691
1,2-Dibromoethane	0.025		0.05		0.1	0.4974264	0.2	0.5331221	0.5	0.532539	1	0.5093343
1,2-Dichlorobenzene	0.025		0.05		0.1	0.8641422	0.2	0.8485272	0.5	0.8109702	1	0.8384377
1,2-Dichloroethane	0.025		0.05		0.1	1.207166	0.2	1.15344	0.5	1.109298	1	1.116863
1,2-Dichloropropane	0.025		0.05		0.1	0.3341385	0.2	0.3404698	0.5	0.2999433	1	0.311887
1,2-Dichlorotetrafluoroethane	0.025		0.05		0.1	2.02129	0.2	2.01933	0.5	2.020232	1	1.778021
1,3,5-Trimethylbenzene	0.025		0.05		0.1	1.463006	0.2	1.34673	0.5	1.315078	1	1.311841
1,3-Butadiene	0.025		0.05		0.1	0.5744274	0.2	0.4827395	0.5	0.5070889	1	0.435305
1,3-Dichlorobenzene	0.025		0.05		0.1	0.7848613	0.2	0.7838448	0.5	0.762524	1	0.7909895
1,3-Dichloropropane	0.025		0.05		0.1	0.4555241	0.2	0.4692088	0.5	0.4639561	1	0.4553723
1,4-Dichlorobenzene	0.025		0.05		0.1	0.877198	0.2	0.8049571	0.5	0.7910863	1	0.811
1,4-Dioxane	0.025		0.05		0.1	0.1997886	0.2	0.1884633	0.5	0.1896572	1	0.1804104
2,2,4-Trimethylpentane	0.025	4.290257	0.05	4.251518	0.1	4.179549	0.2	3.796728	0.5	3.521593	1	3.71736
2-Butanone	0.025		0.05		0.1	1.888291	0.2	1.826882	0.5	1.48732	1	1.468987
2-Hexanone	0.025		0.05		0.1	0.622439	0.2	0.6559716	0.5	0.5864303	1	0.5871123
3-Chloropropene	0.025		0.05		0.1	1.156547	0.2	1.014463	0.5	0.9561631	1	0.9211084
4-Methyl-2-pentanone	0.025		0.05		0.1	0.6749905	0.2	0.6271463	0.5	0.6258112	1	0.6728317
Acetone	0.025		0.05		0.1	2.352547	0.2	1.844207	0.5	1.573715	1	1.350686
Acrolein	0.025		0.05		0.1	0.3486266	0.2	0.3325456	0.5	0.3211613	1	0.2922912
Acrylonitrile	0.025		0.05		0.1	0.5267859	0.2	0.5924247	0.5	0.5591867	1	0.5788794
Benzene	0.025		0.05		0.1	3.436143	0.2	2.996525	0.5	2.780339	1	2.742682

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Hydro Tech Environmental

Calibration: SC50042

SDG: 25C1814

Project: 240047 32-01 57th St Queens, NY

Instrument: TO15_AIR2

Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzyl chloride	0.025		0.05		0.1	0.7997147	0.2	0.8998926	0.5	0.9309504	1	0.9720306
Bromodichloromethane	0.025		0.05		0.1	0.5884078	0.2	0.6241601	0.5	0.6048443	1	0.5910869
Bromoform	0.025		0.05		0.1	0.5298003	0.2	0.5404738	0.5	0.5387853	1	0.591234
Bromomethane	0.025		0.05		0.1	1.014367	0.2	0.8900705	0.5	0.8015745	1	0.6904779
Carbon disulfide	0.025		0.05		0.1	2.400189	0.2	2.358232	0.5	2.319181	1	2.209183
Carbon tetrachloride	0.025	1.770582	0.05	1.730608	0.1	1.799459	0.2	1.62546	0.5	1.477041	1	1.538373
Chlorobenzene	0.025		0.05		0.1	1.008797	0.2	0.9932506	0.5	0.9332574	1	0.9489357
Chloroethane	0.025		0.05		0.1	0.3709585	0.2	0.3514912	0.5	0.3099796	1	0.3070118
Chloroform	0.025		0.05		0.1	1.835438	0.2	1.74736	0.5	1.737179	1	1.692062
Chloromethane	0.025		0.05		0.1	1.04985	0.2	0.7453608	0.5	0.6390132	1	0.5147571
cis-1,2-Dichloroethylene	0.025	1.650689	0.05	1.501478	0.1	1.341902	0.2	1.418554	0.5	1.281687	1	1.16897
cis-1,3-Dichloropropylene	0.025		0.05		0.1	0.467871	0.2	0.4648539	0.5	0.4548479	1	0.4696202
Cyclohexane	0.025		0.05		0.1	1.432471	0.2	1.289549	0.5	1.240971	1	1.222198
Dibromochloromethane	0.025		0.05		0.1	0.3991141	0.2	0.4066228	0.5	0.3865944	1	0.38583
Dichlorodifluoromethane	0.025		0.05		0.1	2.083323	0.2	2.018332	0.5	2.018879	1	1.814799
Ethanol	0.025		0.05		0.1		0.2		0.5		1	
Ethyl acetate	0.025		0.05		0.1	2.080345	0.2	2.19844	0.5	1.870307	1	1.882016
Ethyl Benzene	0.025		0.05		0.1	1.593185	0.2	1.547366	0.5	1.537224	1	1.628462
Hexachlorobutadiene	0.025		0.05		0.1	1.076535	0.2	0.9152512	0.5	0.8163714	1	0.7726819
Isopropanol	0.025		0.05		0.1	~~5.21724~~	0.2	~~3.34652~~	0.5	2.235042	1	1.760035
Isopropylbenzene	0.025		0.05		0.1	1.610498	0.2	1.551496	0.5	1.551303	1	1.724134
Methyl Methacrylate	0.025		0.05		0.1	0.3052775	0.2	0.2937688	0.5	0.2711201	1	0.2873039
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.1	2.261234	0.2	2.222496	0.5	2.180287	1	2.039702
Methylene chloride	0.025		0.05		0.1	1.003945	0.2	0.8859573	0.5	0.892332	1	0.8602276
Naphthalene	0.025		0.05		0.1	2.262815	0.2	1.766748	0.5	1.269964	1	1.225469
n-Butylbenzene	0.025		0.05		0.1	1.444179	0.2	1.375127	0.5	1.328938	1	1.303667
n-Heptane	0.025		0.05		0.1	1.814595	0.2	1.567501	0.5	1.496647	1	1.504765
n-Hexane	0.025		0.05		0.1	1.235701	0.2	1.115673	0.5	1.121081	1	1.112354
n-Propylbenzene	0.025		0.05		0.1	1.857896	0.2	1.861498	0.5	1.748622	1	1.852155

FORM VI INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
o-Xylene	0.025		0.05		0.1	1.196686	0.2	1.22117	0.5	1.210825	1	1.299939
p- & m- Xylenes	0.05		0.1		0.2	1.23628	0.4	1.187576	1	1.142138	2	1.252079
p-Ethyltoluene	0.025		0.05		0.1	1.447017	0.2	1.472615	0.5	1.425116	1	1.530207
p-Isopropyltoluene	0.025		0.05		0.1	1.531785	0.2	1.50194	0.5	1.538176	1	1.543216
Propylene	0.025		0.05		0.1	0.5238083	0.2	0.4813685	0.5	0.4171838	1	0.3598011
sec-Butylbenzene	0.025		0.05		0.1	2.025919	0.2	1.944741	0.5	1.849725	1	1.821973
Styrene	0.025		0.05		0.1	0.8207175	0.2	0.8123348	0.5	0.7987579	1	0.9067763
tert-Butylbenzene	0.025		0.05		0.1	1.508796	0.2	1.442686	0.5	1.374034	1	1.442151
Tetrachloroethylene	0.025		0.05		0.1	0.5452707	0.2	0.5665511	0.5	0.5237603	1	0.5194759
Tetrahydrofuran	0.025		0.05		0.1	1.007915	0.2	0.9283357	0.5	0.8894739	1	0.9170627
Toluene	0.025		0.05		0.1	1.140778	0.2	1.083581	0.5	1.072918	1	1.100948
trans-1,2-Dichloroethylene	0.025		0.05		0.1	1.173172	0.2	1.140601	0.5	1.151267	1	1.078697
trans-1,3-Dichloropropylene	0.025		0.05		0.1	0.3737258	0.2	0.4118072	0.5	0.3931496	1	0.411304
Trichloroethylene	0.025	0.5843811	0.05	0.4708034	0.1	0.4086058	0.2	0.3949682	0.5	0.3678181	1	0.380182
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.1	2.118558	0.2	2.060461	0.5	1.935743	1	1.909093
Vinyl acetate	0.025		0.05		0.1	2.186546	0.2	2.05211	0.5	1.98769	1	1.990081
Vinyl bromide	0.025		0.05		0.1	0.7270291	0.2	0.7082174	0.5	0.6660399	1	0.6765129
Vinyl Chloride	0.025	0.7836216	0.05	0.636417	0.1	0.6798839	0.2	0.6258289	0.5	0.6091785	1	0.5375692

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 25C1814

Client: Hydro Tech Environmental

Project: 240047 32-01 57th St Queens, NY

Calibration: SC50042

Instrument: TO15_AIR2

Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	1.5	0.5294271	2	0.5273564	2.5	0.4914455	3	0.5542915	5.02	0.540523	10	0.5041874
1,1,1-Trichloroethane	1.5	1.755068	2	1.798238	2.5	1.774583	3	1.893723	5.02	1.78456	10	1.77914
1,1,2,2-Tetrachloroethane	1.5	0.8980659	2	0.9180918	2.5	0.8684613	3	0.9235834	5.02	0.9459198	10	0.8931978
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	1.5	1.568541	2	1.61159	2.5	1.648152	3	1.698133	5.02	1.684297	10	1.570548
1,1,2-Trichloroethane	1.5	0.3527764	2	0.3693906	2.5	0.3572856	3	0.372197	5.02	0.3481075	10	0.3418621
1,1-Dichloroethane	1.5	1.412297	2	1.452411	2.5	1.453701	3	1.522616	5.02	1.481272	10	1.430624
1,1-Dichloroethylene	1.5	1.224476	2	1.250495	2.5	1.294075	3	1.336053	5.02	1.310141	10	1.260314
1,2,4-Trichlorobenzene	1.5	0.5259076	2	0.4976092	2.5	0.4887858	3	0.5066875	5.02	0.6373469	10	0.6296869
1,2,4-Trimethylbenzene	1.5	1.340057	2	1.336108	2.5	1.38949	3	1.344919	5.02	1.346747	10	1.433362
1,2-Dibromoethane	1.5	0.5172248	2	0.5486225	2.5	0.5455679	3	0.5746914	5.02	0.5420163	10	0.5500496
1,2-Dichlorobenzene	1.5	0.8590383	2	0.8366677	2.5	0.8329205	3	0.8553659	5.02	0.8823925	10	0.8915545
1,2-Dichloroethane	1.5	1.14951	2	1.139519	2.5	1.11829	3	1.168112	5.02	1.181624	10	1.128402
1,2-Dichloropropane	1.5	0.3097004	2	0.3078505	2.5	0.3181106	3	0.3350636	5.02	0.3124769	10	0.3023922
1,2-Dichlorotetrafluoroethane	1.5	1.953725	2	1.91996	2.5	1.907453	3	2.092047	5.02	2.080942	10	1.990233
1,3,5-Trimethylbenzene	1.5	1.389768	2	1.382208	2.5	1.327205	3	1.361603	5.02	1.394735	10	1.355487
1,3-Butadiene	1.5	0.4526383	2	0.4160697	2.5	0.4584847	3	0.4812132	5.02	0.4579485	10	0.4250478
1,3-Dichlorobenzene	1.5	0.8182134	2	0.8687938	2.5	0.8692683	3	0.8788487	5.02	0.9567583	10	0.9475082
1,3-Dichloropropane	1.5	0.4359279	2	0.4666916	2.5	0.463507	3	0.477195	5.02	0.4550912	10	0.4633118
1,4-Dichlorobenzene	1.5	0.8587252	2	0.8437905	2.5	0.8904651	3	0.8855979	5.02	0.9739154	10	0.9564642
1,4-Dioxane	1.5	0.1858952	2	0.1896645	2.5	0.1914301	3	0.1845905	5.02	0.1894285	10	0.1833211
2,2,4-Trimethylpentane	1.5	3.826475	2	3.929233	2.5	3.827855	3	4.003826	5.02	3.867538	10	3.850891
2-Butanone	1.5	1.547414	2	1.617213	2.5	1.618421	3	1.677369	5.02	1.615084	10	1.598928
2-Hexanone	1.5	0.5794712	2	0.6141197	2.5	0.6001813	3	0.6444066	5.02	0.6060468	10	0.597916
3-Chloropropene	1.5	0.8795636	2	0.9357687	2.5	0.9102366	3	1.011193	5.02	1.000786	10	0.9032167
4-Methyl-2-pentanone	1.5	0.6648991	2	0.6904093	2.5	0.6895153	3	0.7290702	5.02	0.6744009	10	0.6990062
Acetone	1.5	1.357867	2	1.386337	2.5	1.411421	3	1.279014	5.02	1.236679	10	1.146596
Acrolein	1.5	0.3123754	2	0.3186873	2.5	0.3167835	3	0.3394771	5.02	0.3466096	10	0.3262631
Acrylonitrile	1.5	0.5456462	2	0.6204799	2.5	0.5780164	3	0.5895793	5.02	0.6167981	10	0.5703793
Benzene	1.5	2.695007	2	2.716782	2.5	2.771585	3	2.881091	5.02	2.848502	10	2.57218

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Benzyl chloride	1.5	1.006149	2	0.9580447	2.5	0.9988105	3	1.055106	5.02	1.159074	10	1.177763
Bromodichloromethane	1.5	0.6043041	2	0.6040429	2.5	0.6085775	3	0.6154312	5.02	0.6234946	10	0.6085124
Bromoform	1.5	0.6005935	2	0.6112974	2.5	0.5820082	3	0.7698202	5.02	0.776485	10	0.7376388
Bromomethane	1.5	0.720779	2	0.724696	2.5	0.7496542	3	0.7781859	5.02	0.7609306	10	0.7376189
Carbon disulfide	1.5	2.248985	2	2.355173	2.5	2.328878	3	2.424376	5.02	2.433149	10	2.265833
Carbon tetrachloride	1.5	1.565904	2	1.585026	2.5	1.61722	3	1.675465	5.02	1.65057	10	1.628541
Chlorobenzene	1.5	0.9453223	2	0.9763485	2.5	0.9214796	3	1.009686	5.02	0.9925027	10	0.9397916
Chloroethane	1.5	0.3291712	2	0.2999223	2.5	0.3240822	3	0.3559651	5.02	0.3426919	10	0.3400725
Chloroform	1.5	1.748724	2	1.717273	2.5	1.750345	3	1.846927	5.02	1.844846	10	1.742184
Chloromethane	1.5	0.5319986	2	0.5107138	2.5	0.5346727	3	0.5750528	5.02	0.536489	10	0.5233847
cis-1,2-Dichloroethylene	1.5	1.228311	2	1.162037	2.5	1.154618	3	1.223633	5.02	1.202285	10	1.167587
cis-1,3-Dichloropropylene	1.5	0.4699032	2	0.4683678	2.5	0.4795496	3	0.49817	5.02	0.4668244	10	0.4659026
Cyclohexane	1.5	1.254504	2	1.297585	2.5	1.255415	3	1.389596	5.02	1.297899	10	1.247444
Dibromochloromethane	1.5	0.3561573	2	0.396154	2.5	0.3777415	3	0.3976918	5.02	0.3822837	10	0.3646165
Dichlorodifluoromethane	1.5	1.876138	2	1.842015	2.5	1.91845	3	2.051693	5.02	1.992654	10	1.90387
Ethanol	1.5		2		2.5		3		5.02		10	
Ethyl acetate	1.5	1.847644	2	1.898334	2.5	1.909707	3	1.987563	5.02	1.97934	10	1.882512
Ethyl Benzene	1.5	1.550456	2	1.586583	2.5	1.563664	3	1.725516	5.02	1.612803	10	1.640964
Hexachlorobutadiene	1.5	0.7489195	2	0.7267111	2.5	0.6735252	3	0.7347634	5.02	0.7103301	10	0.6321799
Isopropanol	1.5	1.734005	2	1.678093	2.5	1.659071	3	1.689056	5.02	1.637913	10	1.530789
Isopropylbenzene	1.5	1.723431	2	1.685731	2.5	1.70588	3	1.838985	5.02	1.853253	10	1.793661
Methyl Methacrylate	1.5	0.2846278	2	0.2873648	2.5	0.305744	3	0.3100123	5.02	0.3000719	10	0.2930706
Methyl tert-butyl ether (MTBE)	1.5	2.159892	2	2.279685	2.5	2.155738	3	2.314541	5.02	2.295656	10	2.154727
Methylene chloride	1.5	0.8538666	2	0.9278592	2.5	0.8513489	3	0.9624428	5.02	0.9158328	10	0.8820304
Naphthalene	1.5	1.286832	2	1.259341	2.5	1.234466	3	1.223841	5.02	1.555753	10	1.5612
n-Butylbenzene	1.5	1.384132	2	1.265456	2.5	1.300829	3	1.380549	5.02	1.404374	10	1.404481
n-Heptane	1.5	1.491306	2	1.501139	2.5	1.520297	3	1.610908	5.02	1.590857	10	1.438133
n-Hexane	1.5	1.120186	2	1.135729	2.5	1.125081	3	1.19302	5.02	1.214102	10	1.106365
n-Propylbenzene	1.5	2.008216	2	1.955895	2.5	1.959964	3	2.106488	5.02	2.150032	10	2.130112

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
o-Xylene	1.5	1.24612	2	1.242072	2.5	1.250611	3	1.323961	5.02	1.311967	10	1.277407
p- & m- Xylenes	3	1.235637	4	1.265893	5	1.226075	6	1.360938	10	1.316911	20	1.239905
p-Ethyltoluene	1.5	1.615329	2	1.697308	2.5	1.661683	3	1.73474	5.02	1.734635	10	1.720341
p-Isopropyltoluene	1.5	1.549567	2	1.572204	2.5	1.500274	3	1.626015	5.02	1.585821	10	1.500459
Propylene	1.5	0.3836175	2	0.3520608	2.5	0.3817502	3	0.3910504	5.02	0.3907559	10	0.3713125
sec-Butylbenzene	1.5	1.886524	2	1.962484	2.5	1.929181	3	1.991405	5.02	2.009801	10	1.955065
Styrene	1.5	0.8955233	2	0.9226011	2.5	0.9265358	3	0.9568567	5.02	0.978747	10	0.9616833
tert-Butylbenzene	1.5	1.387376	2	1.468468	2.5	1.417708	3	1.46641	5.02	1.429678	10	1.437105
Tetrachloroethylene	1.5	0.4875993	2	0.5444478	2.5	0.5185728	3	0.5458367	5.02	0.5239285	10	0.5016429
Tetrahydrofuran	1.5	0.8946974	2	0.9140819	2.5	0.9108708	3	0.9887218	5.02	0.925911	10	0.8966203
Toluene	1.5	1.115002	2	1.118031	2.5	1.104784	3	1.115635	5.02	1.037104	10	1.042473
trans-1,2-Dichloroethylene	1.5	1.138068	2	1.163223	2.5	1.183345	3	1.266966	5.02	1.221819	10	1.174957
trans-1,3-Dichloropropylene	1.5	0.4182422	2	0.4293572	2.5	0.430191	3	0.4379225	5.02	0.4220192	10	0.4147613
Trichloroethylene	1.5	0.379443	2	0.3871999	2.5	0.396701	3	0.4074562	5.02	0.390137	10	0.3880254
Trichlorofluoromethane (Freon 11)	1.5	1.926861	2	1.937514	2.5	1.986198	3	2.095757	5.02	2.04225	10	1.968802
Vinyl acetate	1.5	1.961619	2	2.057879	2.5	1.935175	3	2.087681	5.02	1.991187	10	1.82151
Vinyl bromide	1.5	0.6658532	2	0.696249	2.5	0.698602	3	0.7362232	5.02	0.7265067	10	0.7123171
Vinyl Chloride	1.5	0.5672841	2	0.5570945	2.5	0.5777432	3	0.6392485	5.02	0.5959946	10	0.5755615

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5149838	4.437123	19.00771	2.478016E-02			30	
1,1,1-Trichloroethane	1.786816	3.618762	12.39743	5.226779E-02			30	
1,1,2,2-Tetrachloroethane	0.9173197	2.962615	20.83929	1.330897E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.63458	4.542305	8.127857	0.0976484			30	
1,1,2-Trichloroethane	0.3509358	4.620654	16.823	2.763483E-02			30	
1,1-Dichloroethane	1.428878	4.681849	10.3745	0.0609103			30	
1,1-Dichloroethylene	1.297637	6.168648	8.354375	9.426611E-02			30	
1,2,4-Trichlorobenzene	0.621838	20.48054	27.07186	1.813984E-02			30	
1,2,4-Trimethylbenzene	1.386089	4.92667	22.5795	2.028917E-02			30	
1,2-Dibromoethane	0.5397686	4.939222	18.14921	1.775699E-02			30	
1,2-Dichlorobenzene	0.8853911	6.673954	24.31729	2.118499E-02			30	
1,2-Dichloroethane	1.147912	2.573506	12.96164	5.276473E-02			30	
1,2-Dichloropropane	0.3118304	4.936961	14.40086	3.006039E-02			30	
1,2-Dichlorotetrafluoroethane	1.962638	4.518784	5.144714	0.1740802			30	
1,3,5-Trimethylbenzene	1.37337	3.369562	21.74	0.0209188			30	
1,3-Butadiene	0.4598385	9.037701	5.710429	0.1628826			30	
1,3-Dichlorobenzene	0.8892767	10.41217	23.42257	1.984027E-02			30	
1,3-Dichloropropane	0.4598857	2.322422	17.25557	2.627839E-02			30	
1,4-Dichlorobenzene	0.9097573	9.300865	23.612	1.207891E-02			30	
1,4-Dioxane	0.1874181	2.735663	14.74029	4.622005E-02			30	
2,2,4-Trimethylpentane	3.863553	5.881055	12.72663	3.192262E-02			30	
2-Butanone	1.625399	6.953918	11.00607	0.1067827			30	
2-Hexanone	0.6086018	3.711093	16.83593	3.512429E-02			30	
3-Chloropropene	0.9580096	7.308859	8.957714	8.327901E-02			30	
4-Methyl-2-pentanone	0.6698743	4.579254	16.13107	1.837957E-02			30	
Acetone	1.387287	24.94063	8.009929	0.2292621			30	
Acrolein	0.326007	4.552825	7.896072	0.2711945			30	
Acrylonitrile	0.5813337	4.32022	9.231928	0.274149			30	
Benzene	2.786953	8.069237	13.09293	4.272691E-02			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzyl chloride	1.065557	14.61429	23.76271	1.264177E-02			30	
Bromodichloromethane	0.605758	2.418594	14.77371	4.129941E-02			30	
Bromoform	0.6477512	13.6728	20.58543	1.368335E-02			30	
Bromomethane	0.768971	11.22469	6.500286	0.0977899			30	
Carbon disulfide	2.318697	3.026402	9.235286	6.239538E-02			30	
Carbon tetrachloride	1.647024	5.198868	12.8775	3.362442E-02			30	
Chlorobenzene	0.9567194	3.858996	18.957	2.361311E-02			30	
Chloroethane	0.3319307	5.876631	6.674714	0.1192421			30	
Chloroform	1.754143	3.258784	11.65143	6.017903E-02			30	
Chloromethane	0.5889332	25.05437	5.359929	0.1920853			30	
cis-1,2-Dichloroethylene	1.243282	12.96764	11.37606	5.237222E-02			30	
cis-1,3-Dichloropropylene	0.4735583	2.940322	15.69114	2.459855E-02			30	
Cyclohexane	1.277157	4.925367	12.56843	4.287782E-02			30	
Dibromochloromethane	0.3806586	4.52902	17.56829	0.01433			30	
Dichlorodifluoromethane	1.916998	5.48719	4.871714	0.1576322			30	
Ethanol							30	
Ethyl acetate	1.941329	4.964479	11.31	9.004345E-02			30	
Ethyl Benzene	1.601814	4.527187	19.06443	1.832643E-02			30	
Hexachlorobutadiene	0.7522773	15.65314	27.343	1.034186E-02			30	
Isopropanol	1.649423	13.13049	7.797	0.115735			30	
Isopropylbenzene	1.715938	6.142682	20.65843	4.391568E-03			30	
Methyl Methacrylate	0.2927754	3.638926	14.42571	3.438105E-02			30	
Methyl tert-butyl ether (MTBE)	2.2009	3.26069	9.5235	0.1294531			30	
Methylene chloride	0.8944791	4.963124	9.11	5.584327E-02			30	
Naphthalene	1.545268	20.11297	27.47057	1.968912E-02			30	
n-Butylbenzene	1.41621	7.436848	24.05357	1.731406E-02			30	
n-Heptane	1.53862	6.155347	13.10843	0.0241297			30	
n-Hexane	1.131148	4.453026	9.998429	4.088152E-02			30	
n-Propylbenzene	2.00054	7.467428	21.43029	1.366368E-02			30	
o-Xylene	1.243391	4.526981	19.99957	7.331033E-03			30	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Instrument: TO15_AIR2
Calibration Date: 03/27/25 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
p- & m- Xylenes	1.217691	6.736141	19.20957	1.438226E-02			30	
p-Ethyltoluene	1.639736	7.799978	21.65329	0.0153861			30	
p-Isopropyltoluene	1.574191	4.378347	23.24943	2.362375E-02			30	
Propylene	0.3899389	13.53694	4.800286	0.2285375			30	
sec-Butylbenzene	1.969977	4.827676	22.98057	1.448963E-02			30	
Styrene	0.9061753	6.846674	20.02271	8.761146E-03			30	
tert-Butylbenzene	1.455948	3.749959	22.50414	1.727722E-02			30	
Tetrachloroethylene	0.5216672	4.742572	17.56871	2.519487E-03			30	
Tetrahydrofuran	0.9232628	3.817888	11.99121	0.0950512			30	
Toluene	1.073595	4.48483	16.35614	2.061924E-02			30	
trans-1,2-Dichloroethylene	1.168221	3.722053	9.712857	0.0600511			30	
trans-1,3-Dichloropropylene	0.4173443	4.263269	16.52629	2.370371E-02			30	
Trichloroethylene	0.402485	13.6642	14.1625	3.646688E-02			30	
Trichlorofluoromethane (Freon 11)	1.980303	3.734723	7.250286	0.109221			30	
Vinyl acetate	1.924486	8.422768	10.343	0.1120765			30	
Vinyl bromide	0.6984373	3.817189	7.133929	9.909006E-02			30	
Vinyl Chloride	0.6050697	9.941306	5.628188	0.2128113			30	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231731.D
Acq On : 27 Mar 2025 2:39 pm
Operator : YR
Sample : SEQ-CAL1
Misc : QBTO2022225A
ALS Vial : 7 Sample Multiplier: 1

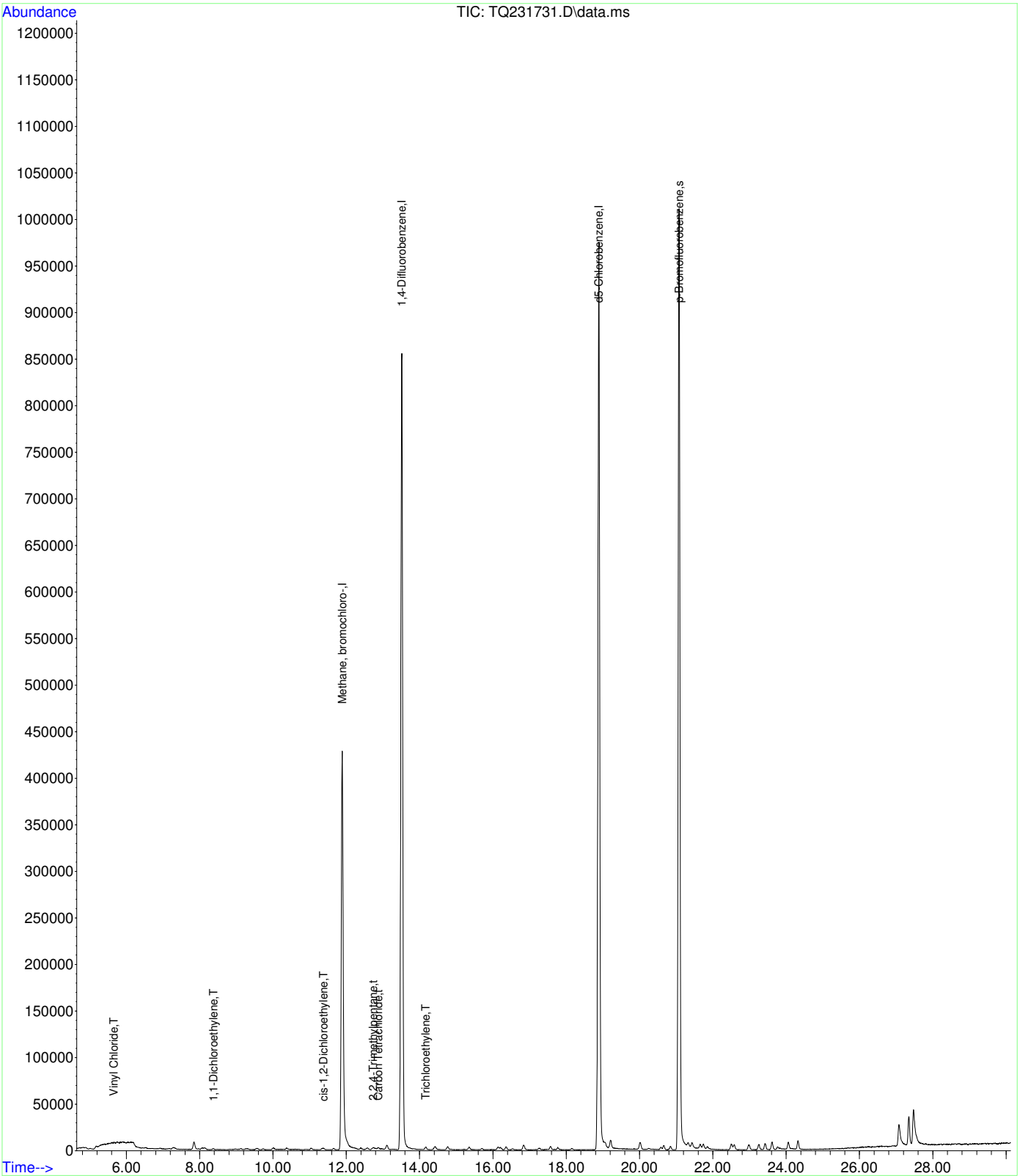
Quant Time: Mar 28 08:57:06 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	11.892	49	417038	10.00	ppbv	0.00
38) 1,4-Difluorobenzene	13.513	114	1311473	10.00	ppbv	0.00
54) d5-Chlorobenzene	18.890	117	1070608	10.00	ppbv	0.00
System Monitoring Compounds						
65) p-Bromofluorobenzene	21.079	95	737936	9.07	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.70%			
Target Compounds						Qvalue
6) Vinyl Chloride	5.655	62	817	0.03	ppbv #	23
16) 1,1-Dichloroethylene	8.374	61	1543	0.03	ppbv #	66
28) cis-1,2-Dichloroethylene	11.379	61	1721	0.03	ppbv #	64
33) 2,2,4-Trimethylpentane	12.733	57	4473	0.03	ppbv #	53
34) Carbon Tetrachloride	12.873	117	1846	0.03	ppbv #	91
39) Trichloroethylene	14.165	95	1916	0.04	ppbv	96

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

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231731.D
Acq On : 27 Mar 2025 2:39 pm
Operator : YR
Sample : SEQ-CAL1
Misc : QBTO2022225A
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 08:57:06 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231732.D
Acq On : 27 Mar 2025 3:30 pm
Operator : YR
Sample : SEQ-CAL2
Misc : QBTO2022225A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 08:57:09 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

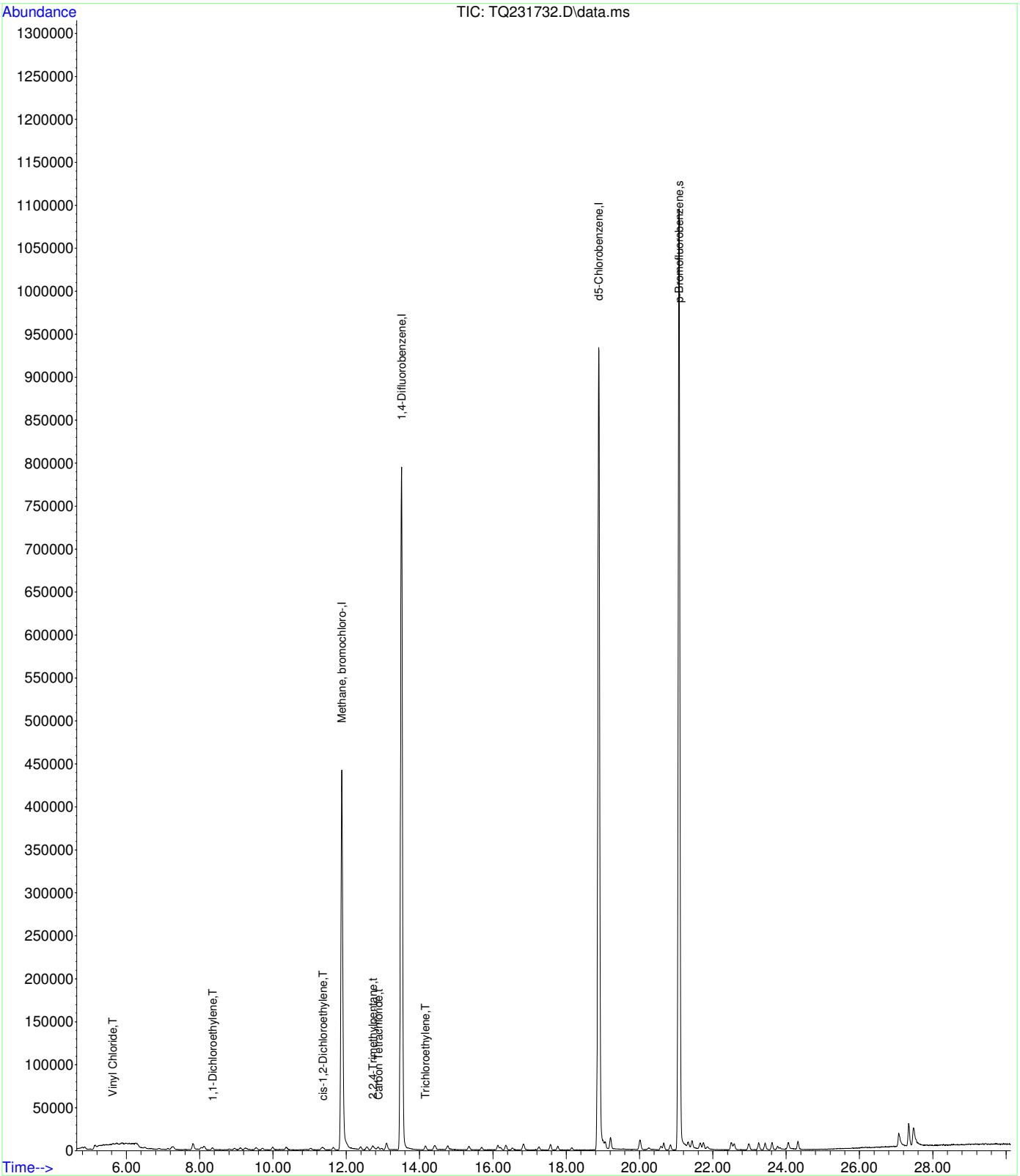
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	11.879	49	411994	10.00	ppbv	0.00
38) 1,4-Difluorobenzene	13.507	114	1231087	10.00	ppbv	0.00
54) d5-Chlorobenzene	18.884	117	1054476	10.00	ppbv	0.00
System Monitoring Compounds						
65) p-Bromofluorobenzene	21.079	95	771351	9.63	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.30%			
Target Compounds						Qvalue
6) Vinyl Chloride	5.631	62	1311	0.05	ppbv #	58
16) 1,1-Dichloroethylene	8.356	61	2999	0.06	ppbv	96
28) cis-1,2-Dichloroethylene	11.367	61	3093	0.06	ppbv	94
33) 2,2,4-Trimethylpentane	12.721	57	8758	0.06	ppbv #	77
34) Carbon Tetrachloride	12.879	117	3565	0.05	ppbv	98
39) Trichloroethylene	14.159	95	2898	0.06	ppbv	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231732.D
Acq On : 27 Mar 2025 3:30 pm
Operator : YR
Sample : SEQ-CAL2
Misc : QBTO2022225A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 08:57:09 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231733.D
Acq On : 27 Mar 2025 4:21 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO2022225A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 08:57:12 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	403010	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1295870	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1057002	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	675937	8.42	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.20%				
Target Compounds							Qvalue
2) Propylene	4.820	42	2111	0.13	ppbv		89
3) Dichlorodifluoromethane	4.875	85	8396	0.11	ppbv		98
4) 1,2-Dichlorotetrafluor...	5.149	85	8146	0.10	ppbv		93
5) Chloromethane	5.368	50	4231	0.18	ppbv	#	83
6) Vinyl Chloride	5.643	62	2740	0.11	ppbv		89
7) 1,3-Butadiene	5.722	54	2315	0.12	ppbv	#	58
8) Bromomethane	6.508	94	4088	0.13	ppbv		84
9) Chloroethane	6.673	64	1495	0.11	ppbv	#	49
10) Vinyl Bromide	7.130	106	2930	0.10	ppbv		99
11) Trichlorofluoromethane	7.246	101	8538	0.11	ppbv		99
12) Isopropanol	7.825	45	21026	0.32	ppbv		100
13) Acrolein	7.941	56	1405	0.11	ppbv	#	56
14) Acetone	8.039	43	9481	0.17	ppbv		88
15) Freon-113	8.124	101	7133	0.11	ppbv		98
16) 1,1-Dichloroethylene	8.350	61	5506	0.11	ppbv		96
17) 3-Chloropropene	8.971	41	4661	0.12	ppbv		87
18) Methylene Chloride	9.106	49	4046	0.11	ppbv		96
19) Acrylonitrile	9.282	53	2123	0.09	ppbv	#	90
20) Carbon disulfide	9.240	76	9673	0.10	ppbv	#	69
21) Methyl-tert-Butyl Ethe...	9.551	73	9113	0.10	ppbv	#	92
22) trans-1,2-Dichloroethy...	9.709	61	4728	0.10	ppbv		93
23) Hexane	9.989	57	4980	0.11	ppbv		94
24) Vinyl Acetate	10.367	43	8812	0.11	ppbv	#	98
25) 1,1-Dichloroethane	10.374	63	6358	0.11	ppbv		96
26) 2-Butanone	11.026	43	7610	0.12	ppbv	#	85
27) Ethyl Acetate	11.331	43	8384	0.11	ppbv		90
28) cis-1,2-Dichloroethylene	11.379	61	5408	0.11	ppbv		96
29) Chloroform	11.642	83	7397	0.10	ppbv		98
30) Tetrahydrofuran	12.014	42	4062	0.11	ppbv		91
31) 1,1,1-Trichlorethane	12.398	97	7830	0.11	ppbv		99
32) Cyclohexane	12.568	56	5773	0.11	ppbv		93
33) 2,2,4-Trimethylpentane	12.727	57	16844	0.11	ppbv	#	92
34) Carbon Tetrachloride	12.879	117	7252	0.11	ppbv		100
35) 1,2-Dichloroethane	12.971	62	4865	0.11	ppbv	#	98
36) Benzene	13.093	78	13848	0.12	ppbv		91
37) n-Heptane	13.111	43	7313	0.12	ppbv	#	75
39) Trichloroethylene	14.159	95	5295	0.10	ppbv		97
40) 1,2-Dichloropropane	14.403	63	4330	0.11	ppbv	#	96
41) Methyl Methacrylate	14.434	69	3956	0.10	ppbv	#	64
42) 1,4-Dioxane	14.751	88	2589	0.11	ppbv	#	100
43) Bromodichloromethane	14.775	83	7625	0.10	ppbv		96
44) Methyl Isobutyl Ketone	16.135	43	8747	0.10	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	6063	0.10	ppbv		95
46) Toluene	16.360	91	14783	0.11	ppbv		97
47) trans-1,3-Dichloropropene	16.531	75	4843	0.09	ppbv		95
48) 1,1,2-Trichlorethane	16.824	97	4394	0.10	ppbv		98
49) 2-Hexanone	16.848	43	8066	0.10	ppbv	#	95
50) 1,3-Dichloropropane	17.250	76	5903	0.10	ppbv		91
51) Tetrachloroethylene	17.567	166	7066	0.10	ppbv		99
52) Dibromchloromethane	17.567	129	5172	0.10	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	6446	0.09	ppbv		98
55) Chlorobenzene	18.957	112	10663	0.11	ppbv	#	86

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231733.D
Acq On : 27 Mar 2025 4:21 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO2022225A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 08:57:12 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

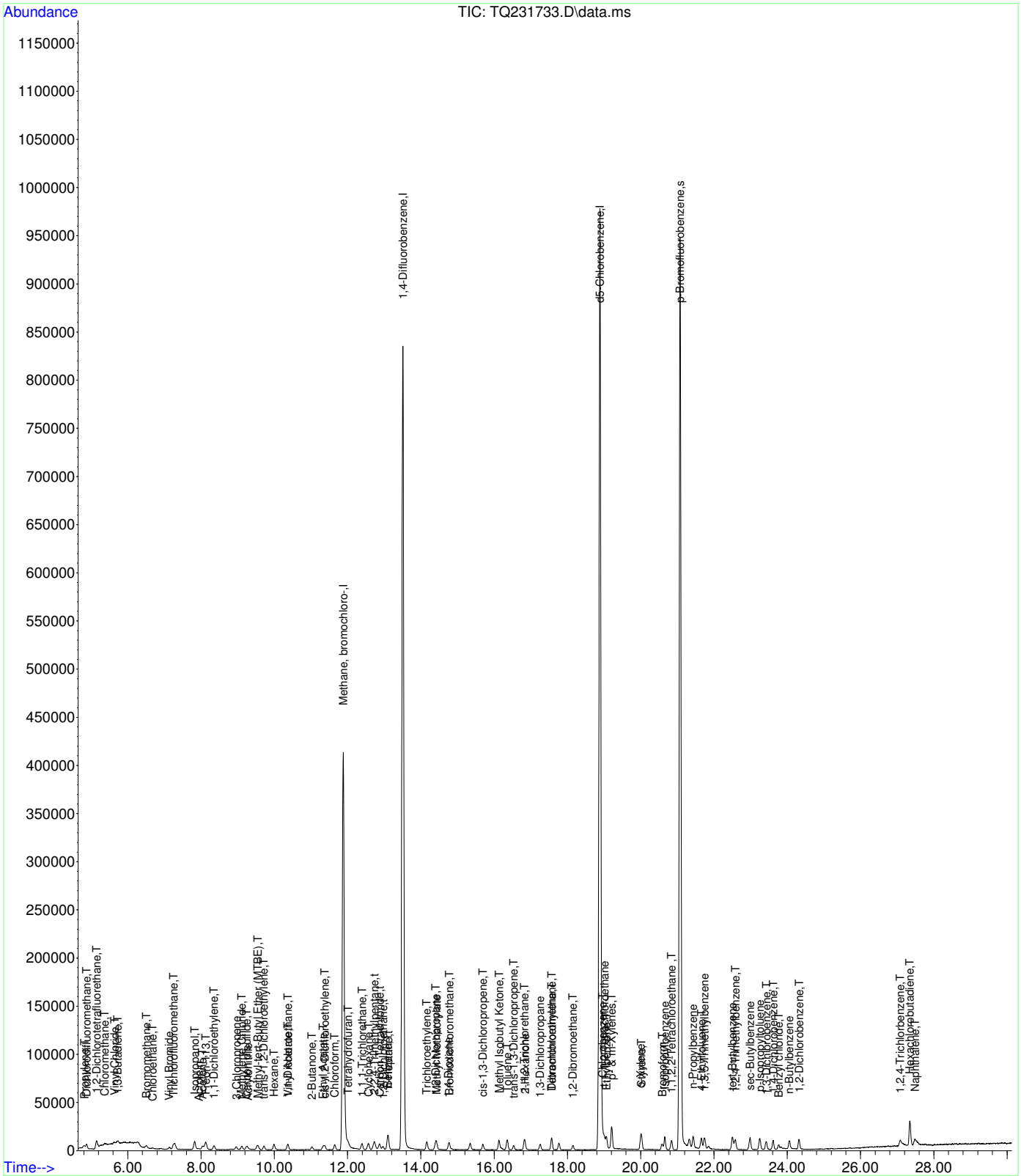
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	5484	0.10	ppbv	#	44
57) Ethylbenzene	19.067	91	16840	0.10	ppbv		96
58) p- & m-Xylenes	19.207	91	26135	0.20	ppbv		96
59) o-Xylene	20.000	91	12649	0.10	ppbv		99
60) Styrene	20.018	104	8675	0.09	ppbv	#	100
61) Bromoform	20.591	173	5600	0.08	ppbv		98
62) n-Propylbenzene	21.426	91	19638	0.09	ppbv		100
63) Isopropylbenzene	20.658	105	17023	0.09	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	10070	0.10	ppbv		99
66) 4-Ethyltoluene	21.658	105	15295	0.09	ppbv	#	97
67) 1,3,5-Trimethylbenzene	21.743	105	15464	0.11	ppbv		95
68) tert-Butylbenzene	22.499	119	15948	0.10	ppbv	#	87
69) 1,2,4-Trimethylbenzene	22.585	105	14855	0.10	ppbv	#	84
70) sec-Butylbenzene	22.987	105	21414	0.10	ppbv	#	96
71) p-Isopropyltoluene	23.255	119	16191	0.10	ppbv	#	88
72) 1,3-Dichlorobenzene	23.432	146	8296	0.09	ppbv		100
73) 1,4-Dichlorobenzene	23.621	146	9272	0.10	ppbv		97
74) Benzyl chloride	23.761	91	8453	0.08	ppbv		94
75) n-Butylbenzene	24.054	91	15265	0.10	ppbv		95
76) 1,2-Dichlorobenzene	24.322	146	9134	0.10	ppbv		98
77) 1,2,4-Trichlorbenzene	27.084	180	9436	0.14	ppbv		83
78) Hexachlorobutadiene	27.340	225	11379	0.14	ppbv		94
79) Naphthalene	27.486	128	23918	0.15	ppbv		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231733.D
Acq On : 27 Mar 2025 4:21 pm
Operator : YR
Sample : SEQ-CAL3
Misc : QBTO2022225A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 28 08:57:12 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231734.D
Acq On : 27 Mar 2025 5:12 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO2022225A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 28 08:57:15 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	401148	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1205540	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1077573	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	747463	9.13	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.30%				
Target Compounds							Qvalue
2) Propylene	4.814	42	3862	0.25	ppbv		94
3) Dichlorodifluoromethane	4.881	85	16193	0.21	ppbv		98
4) 1,2-Dichlorotetrafluor...	5.161	85	16201	0.21	ppbv		95
5) Chloromethane	5.381	50	5980	0.25	ppbv		99
6) Vinyl Chloride	5.643	62	5021	0.21	ppbv		89
7) 1,3-Butadiene	5.728	54	3873	0.21	ppbv	#	76
8) Bromomethane	6.508	94	7141	0.23	ppbv		89
9) Chloroethane	6.685	64	2820	0.21	ppbv	#	91
10) Vinyl Bromide	7.149	106	5682	0.20	ppbv		100
11) Trichlorofluoromethane	7.264	101	16531	0.21	ppbv		98
12) Isopropanol	7.825	45	26849	0.41	ppbv		100
13) Acrolein	7.935	56	2668	0.20	ppbv	#	56
14) Acetone	8.045	43	14796	0.27	ppbv		89
15) Freon-113	8.130	101	14079	0.21	ppbv		99
16) 1,1-Dichloroethylene	8.356	61	10083	0.19	ppbv		98
17) 3-Chloropropene	8.965	41	8139	0.21	ppbv		91
18) Methylene Chloride	9.112	49	7108	0.20	ppbv		95
19) Acrylonitrile	9.282	53	4753	0.20	ppbv	#	59
20) Carbon disulfide	9.246	76	18920	0.20	ppbv		91
21) Methyl-tert-Butyl Ethe...	9.544	73	17831	0.20	ppbv		95
22) trans-1,2-Dichloroethy...	9.721	61	9151	0.20	ppbv		97
23) Hexane	10.002	57	8951	0.20	ppbv		92
24) Vinyl Acetate	10.367	43	16464	0.21	ppbv	#	99
25) 1,1-Dichloroethane	10.374	63	11704	0.20	ppbv		97
26) 2-Butanone	11.032	43	14657	0.22	ppbv		91
27) Ethyl Acetate	11.331	43	17638	0.23	ppbv		89
28) cis-1,2-Dichloroethylene	11.379	61	11381	0.23	ppbv		97
29) Chloroform	11.648	83	14019	0.20	ppbv		100
30) Tetrahydrofuran	12.013	42	7448	0.20	ppbv		90
31) 1,1,1-Trichlorethane	12.391	97	14574	0.20	ppbv		98
32) Cyclohexane	12.568	56	10346	0.20	ppbv		93
33) 2,2,4-Trimethylpentane	12.727	57	30461	0.20	ppbv		96
34) Carbon Tetrachloride	12.873	117	13041	0.20	ppbv		99
35) 1,2-Dichloroethane	12.958	62	9254	0.20	ppbv	#	99
36) Benzene	13.099	78	24041	0.21	ppbv		90
37) n-Heptane	13.111	43	12576	0.20	ppbv	#	73
39) Trichloroethylene	14.159	95	9523	0.20	ppbv		94
40) 1,2-Dichloropropane	14.403	63	8209	0.22	ppbv		98
41) Methyl Methacrylate	14.428	69	7083	0.20	ppbv		72
42) 1,4-Dioxane	14.751	88	4544	0.20	ppbv	#	100
43) Bromodichloromethane	14.769	83	15049	0.21	ppbv		99
44) Methyl Isobutyl Ketone	16.135	43	15121	0.19	ppbv	#	56
45) cis-1,3-Dichloropropene	15.696	75	11208	0.20	ppbv		95
46) Toluene	16.354	91	26126	0.20	ppbv		98
47) trans-1,3-Dichloropropene	16.531	75	9929	0.20	ppbv		95
48) 1,1,2-Trichlorethane	16.817	97	9253	0.22	ppbv		98
49) 2-Hexanone	16.842	43	15816	0.22	ppbv	#	74
50) 1,3-Dichloropropane	17.250	76	11313	0.20	ppbv		94
51) Tetrachloroethylene	17.567	166	13660	0.22	ppbv		98
52) Dibromchloromethane	17.567	129	9804	0.21	ppbv	#	5
53) 1,2-Dibromoethane	18.152	107	12854	0.20	ppbv		98
55) Chlorobenzene	18.957	112	21406	0.21	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231734.D
Acq On : 27 Mar 2025 5:12 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO2022225A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 28 08:57:15 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

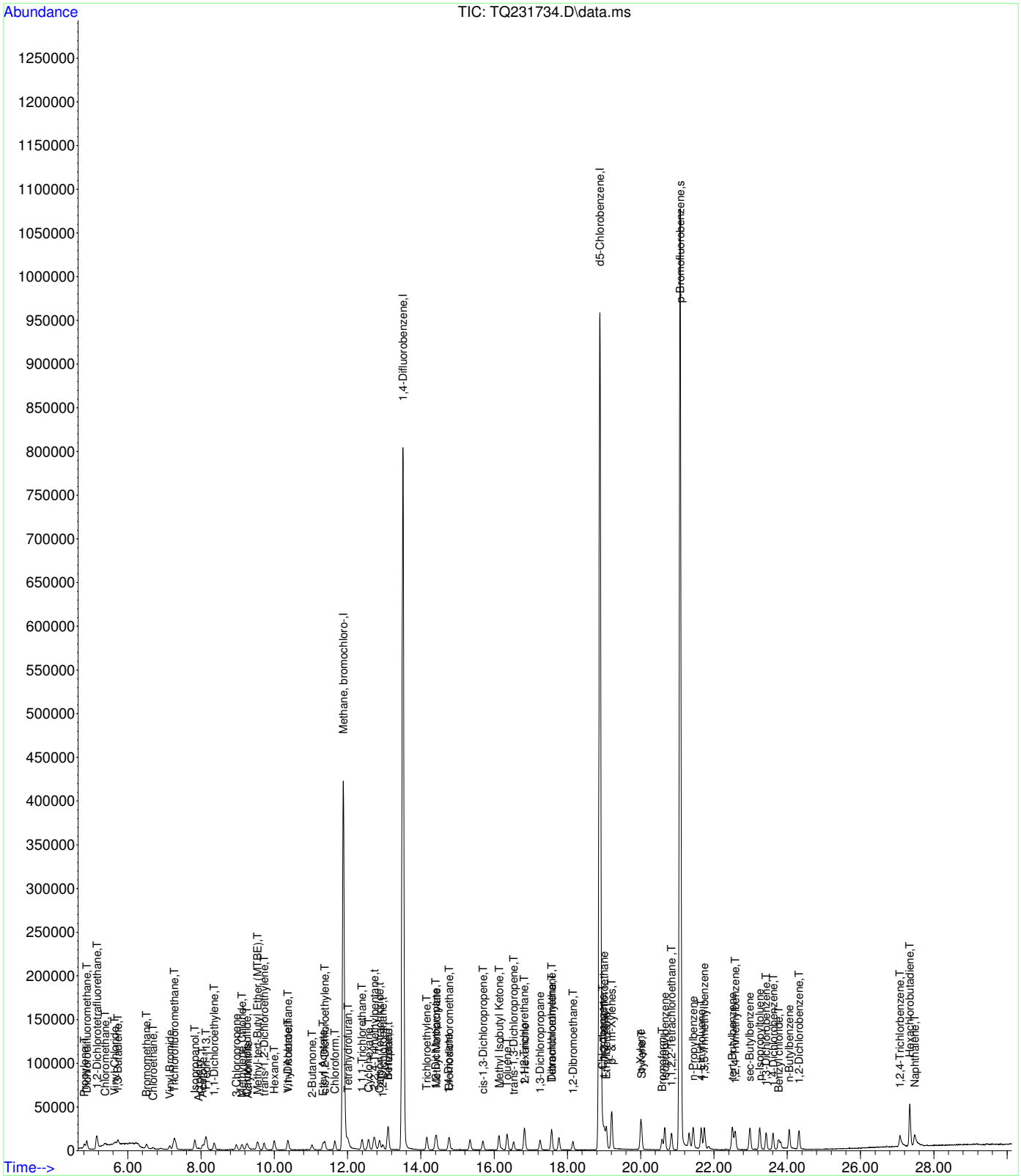
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.000	131	11230	0.20	ppbv	#	62
57) Ethylbenzene	19.061	91	33348	0.19	ppbv		98
58) p- & m-Xylenes	19.207	91	51188	0.39	ppbv		96
59) o-Xylene	20.000	91	26318	0.20	ppbv		98
60) Styrene	20.024	104	17507	0.18	ppbv	#	100
61) Bromoform	20.585	173	11648	0.17	ppbv		100
62) n-Propylbenzene	21.432	91	40118	0.19	ppbv		100
63) Isopropylbenzene	20.658	105	33437	0.18	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	19835	0.20	ppbv		98
66) 4-Ethyltoluene	21.652	105	31737	0.18	ppbv		96
67) 1,3,5-Trimethylbenzene	21.737	105	29024	0.20	ppbv		98
68) tert-Butylbenzene	22.499	119	31092	0.20	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	29251	0.20	ppbv	#	92
70) sec-Butylbenzene	22.975	105	41912	0.20	ppbv		99
71) p-Isopropyltoluene	23.249	119	32369	0.19	ppbv	#	87
72) 1,3-Dichlorobenzene	23.420	146	16893	0.18	ppbv		98
73) 1,4-Dichlorobenzene	23.621	146	17348	0.18	ppbv		96
74) Benzyl chloride	23.761	91	19394	0.17	ppbv		95
75) n-Butylbenzene	24.054	91	29636	0.19	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	18287	0.19	ppbv		99
77) 1,2,4-Trichlorbenzene	27.078	180	14457	0.22	ppbv		87
78) Hexachlorobutadiene	27.340	225	19725	0.24	ppbv		96
79) Naphthalene	27.480	128	38076	0.23	ppbv		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231734.D
Acq On : 27 Mar 2025 5:12 pm
Operator : YR
Sample : SEQ-CAL4
Misc : QBTO2022225A
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 28 08:57:15 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231735.D
Acq On : 27 Mar 2025 6:04 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO2022225A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 08:57:18 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	398865	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1214296	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1092346	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	773861	9.32	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.20%				
Target Compounds							Qvalue
2) Propylene	4.807	42	8320	0.54	ppbv		97
3) Dichlorodifluoromethane	4.875	85	40263	0.53	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.149	85	40290	0.51	ppbv		94
5) Chloromethane	5.362	50	12744	0.54	ppbv		96
6) Vinyl Chloride	5.630	62	12149	0.50	ppbv		98
7) 1,3-Butadiene	5.710	54	10113	0.55	ppbv		89
8) Bromomethane	6.508	94	15986	0.52	ppbv		94
9) Chloroethane	6.673	64	6182	0.47	ppbv	#	94
10) Vinyl Bromide	7.142	106	13283	0.48	ppbv		98
11) Trichlorofluoromethane	7.252	101	38605	0.49	ppbv		99
12) Isopropanol	7.813	45	44574	0.68	ppbv		100
13) Acrolein	7.923	56	6405	0.49	ppbv	#	56
14) Acetone	8.039	43	31385	0.57	ppbv		91
15) Freon-113	8.130	101	31689	0.49	ppbv		99
16) 1,1-Dichloroethylene	8.349	61	24616	0.48	ppbv		98
17) 3-Chloropropene	8.959	41	19069	0.50	ppbv		92
18) Methylene Chloride	9.111	49	17796	0.50	ppbv		95
19) Acrylonitrile	9.264	53	11152	0.48	ppbv	#	93
20) Carbon disulfide	9.240	76	46252	0.50	ppbv		95
21) Methyl-tert-Butyl Ethe...	9.532	73	43482	0.50	ppbv		96
22) trans-1,2-Dichloroethy...	9.709	61	22960	0.49	ppbv		96
23) Hexane	9.995	57	22358	0.50	ppbv		96
24) Vinyl Acetate	10.349	43	39641	0.52	ppbv	#	99
25) 1,1-Dichloroethane	10.373	63	27506	0.48	ppbv		99
26) 2-Butanone	11.020	43	29662	0.46	ppbv		94
27) Ethyl Acetate	11.318	43	37300	0.48	ppbv		95
28) cis-1,2-Dichloroethylene	11.373	61	25561	0.52	ppbv		99
29) Chloroform	11.648	83	34645	0.50	ppbv		99
30) Tetrahydrofuran	12.007	42	17739	0.48	ppbv		96
31) 1,1,1-Trichlorethane	12.397	97	34315	0.48	ppbv		98
32) Cyclohexane	12.568	56	24749	0.49	ppbv		94
33) 2,2,4-Trimethylpentane	12.727	57	70232	0.46	ppbv		99
34) Carbon Tetrachloride	12.879	117	29457	0.45	ppbv		100
35) 1,2-Dichloroethane	12.958	62	22123	0.48	ppbv	#	85
36) Benzene	13.092	78	55449	0.50	ppbv		93
37) n-Heptane	13.111	43	29848	0.49	ppbv	#	75
39) Trichloroethylene	14.159	95	22332	0.46	ppbv		96
40) 1,2-Dichloropropane	14.403	63	18211	0.48	ppbv		97
41) Methyl Methacrylate	14.434	69	16461	0.46	ppbv		75
42) 1,4-Dioxane	14.745	88	11515	0.51	ppbv	#	100
43) Bromodichloromethane	14.769	83	36723	0.50	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	37996	0.47	ppbv	#	57
45) cis-1,3-Dichloropropene	15.689	75	27616	0.48	ppbv		97
46) Toluene	16.354	91	65142	0.50	ppbv		98
47) trans-1,3-Dichloropropene	16.531	75	23870	0.47	ppbv		98
48) 1,1,2-Trichlorethane	16.817	97	20953	0.49	ppbv		99
49) 2-Hexanone	16.842	43	35605	0.48	ppbv	#	97
50) 1,3-Dichloropropane	17.256	76	28169	0.50	ppbv	#	72
51) Tetrachloroethylene	17.567	166	31800	0.50	ppbv		99
52) Dibromchloromethane	17.561	129	23472	0.51	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	32333	0.49	ppbv		98
55) Chlorobenzene	18.957	112	50972	0.49	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231735.D
Acq On : 27 Mar 2025 6:04 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO2022225A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 08:57:18 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

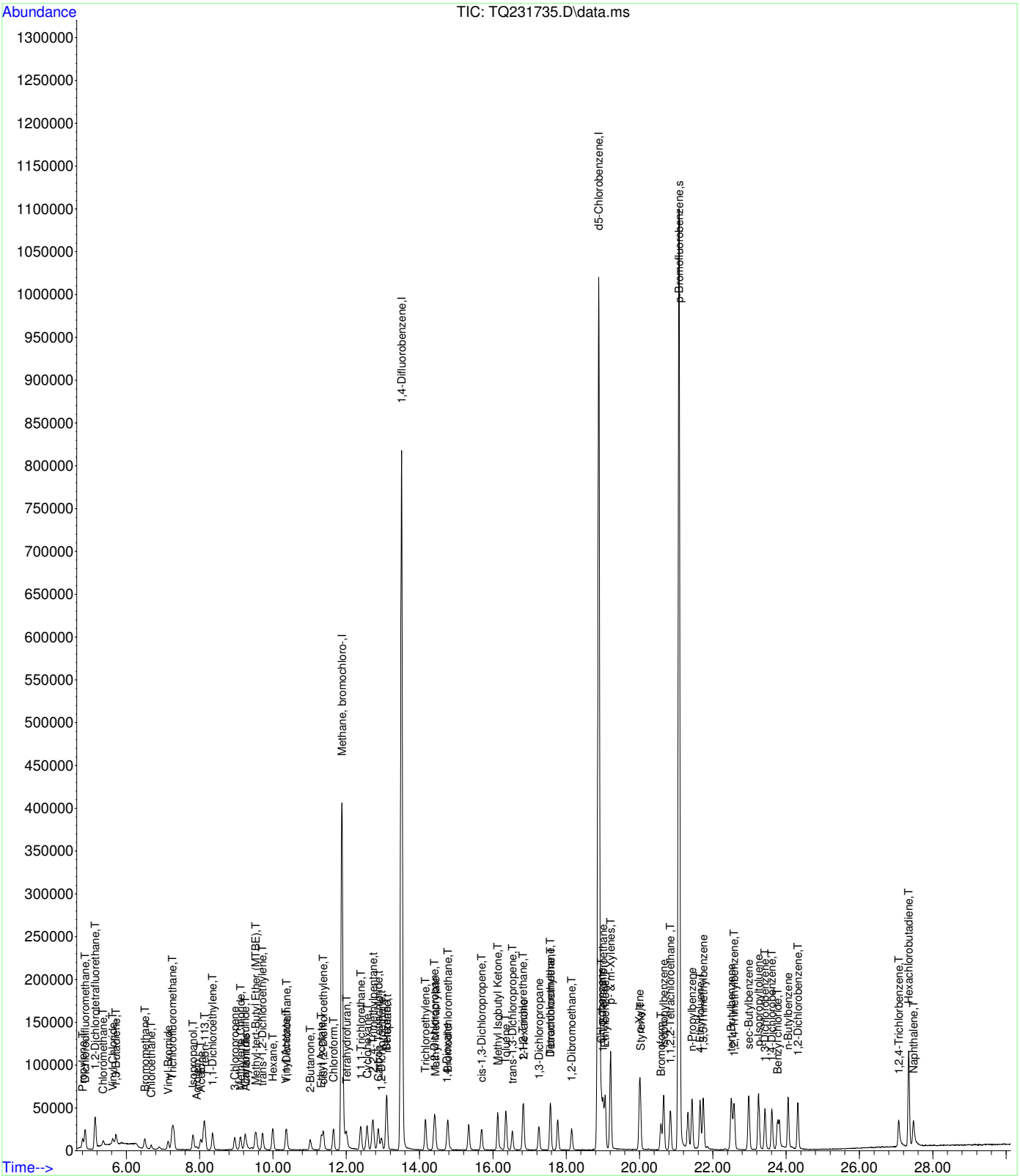
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	27794	0.49	ppbv	#	88
57) Ethylbenzene	19.061	91	83959	0.48	ppbv		97
58) p- & m-Xylenes	19.213	91	124761	0.94	ppbv		98
59) o-Xylene	20.000	91	66132	0.49	ppbv		99
60) Styrene	20.030	104	43626	0.44	ppbv	#	100
61) Bromoform	20.585	173	29427	0.42	ppbv		100
62) n-Propylbenzene	21.432	91	95505	0.44	ppbv		99
63) Isopropylbenzene	20.658	105	84728	0.45	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	49067	0.49	ppbv		99
66) 4-Ethyltoluene	21.652	105	77836	0.43	ppbv		96
67) 1,3,5-Trimethylbenzene	21.743	105	71826	0.48	ppbv		99
68) tert-Butylbenzene	22.499	119	75046	0.47	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	71982	0.48	ppbv	#	94
70) sec-Butylbenzene	22.981	105	101027	0.47	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	84011	0.49	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	41647	0.43	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	43207	0.43	ppbv		99
74) Benzyl chloride	23.761	91	50846	0.44	ppbv		98
75) n-Butylbenzene	24.054	91	72583	0.47	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	44293	0.46	ppbv		99
77) 1,2,4-Trichlorbenzene	27.078	180	25346	0.37	ppbv		96
78) Hexachlorobutadiene	27.340	225	44588	0.54	ppbv		96
79) Naphthalene	27.474	128	69362	0.41	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231735.D
Acq On : 27 Mar 2025 6:04 pm
Operator : YR
Sample : SEQ-CAL5
Misc : QBTO2022225A
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 08:57:18 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231736.D
Acq On : 27 Mar 2025 6:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO2022225A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 28 08:57:21 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.873	49	410310	10.00	ppbv		-0.01
38) 1,4-Difluorobenzene	13.507	114	1290724	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1056942	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	824388	10.26	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.60%				
Target Compounds							Qvalue
2) Propylene	4.801	42	14763	0.92	ppbv		97
3) Dichlorodifluoromethane	4.869	85	74463	0.95	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.137	85	72954	0.91	ppbv		95
5) Chloromethane	5.356	50	21121	0.87	ppbv		98
6) Vinyl Chloride	5.618	62	22057	0.89	ppbv		95
7) 1,3-Butadiene	5.710	54	17861	0.95	ppbv		93
8) Bromomethane	6.496	94	28331	0.90	ppbv		100
9) Chloroethane	6.673	64	12597	0.92	ppbv	#	93
10) Vinyl Bromide	7.136	106	27758	0.97	ppbv		100
11) Trichlorofluoromethane	7.246	101	78332	0.96	ppbv		100
12) Isopropanol	7.807	45	72216	1.07	ppbv		100
13) Acrolein	7.898	56	11993	0.90	ppbv	#	56
14) Acetone	8.008	43	55420	0.97	ppbv		93
15) Freon-113	8.118	101	62467	0.93	ppbv		100
16) 1,1-Dichloroethylene	8.350	61	49141	0.92	ppbv		98
17) 3-Chloropropene	8.953	41	37794	0.96	ppbv		86
18) Methylene Chloride	9.112	49	35296	0.96	ppbv		95
19) Acrylonitrile	9.233	53	23752	1.00	ppbv	#	96
20) Carbon disulfide	9.233	76	90645	0.95	ppbv		97
21) Methyl-tert-Butyl Ethe...	9.526	73	83691	0.93	ppbv		97
22) trans-1,2-Dichloroethy...	9.703	61	44260	0.92	ppbv		96
23) Hexane	9.996	57	45641	0.98	ppbv		96
24) Vinyl Acetate	10.343	43	81655	1.03	ppbv	#	98
25) 1,1-Dichloroethane	10.367	63	56319	0.96	ppbv		99
26) 2-Butanone	11.008	43	60274	0.90	ppbv		95
27) Ethyl Acetate	11.306	43	77221	0.97	ppbv		92
28) cis-1,2-Dichloroethylene	11.367	61	47964	0.94	ppbv		97
29) Chloroform	11.648	83	69427	0.96	ppbv		99
30) Tetrahydrofuran	11.989	42	37628	0.99	ppbv		95
31) 1,1,1-Trichlorethane	12.391	97	70081	0.96	ppbv		100
32) Cyclohexane	12.562	56	50148	0.96	ppbv		94
33) 2,2,4-Trimethylpentane	12.721	57	152527	0.96	ppbv		99
34) Carbon Tetrachloride	12.873	117	63121	0.93	ppbv	#	92
35) 1,2-Dichloroethane	12.958	62	45826	0.97	ppbv		99
36) Benzene	13.086	78	112535	0.98	ppbv		95
37) n-Heptane	13.099	43	61742	0.98	ppbv	#	97
39) Trichloroethylene	14.159	95	49071	0.94	ppbv		95
40) 1,2-Dichloropropane	14.397	63	40256	1.00	ppbv		97
41) Methyl Methacrylate	14.428	69	37083	0.98	ppbv		76
42) 1,4-Dioxane	14.745	88	23286	0.96	ppbv	#	100
43) Bromodichloromethane	14.769	83	76293	0.98	ppbv		100
44) Methyl Isobutyl Ketone	16.128	43	86844	1.00	ppbv	#	54
45) cis-1,3-Dichloropropene	15.690	75	60615	0.99	ppbv		98
46) Toluene	16.348	91	142102	1.03	ppbv		98
47) trans-1,3-Dichloropropene	16.525	75	53088	0.99	ppbv		98
48) 1,1,2-Trichlorethane	16.823	97	46029	1.02	ppbv		100
49) 2-Hexanone	16.836	43	75780	0.96	ppbv		100
50) 1,3-Dichloropropane	17.250	76	58776	0.99	ppbv	#	72
51) Tetrachloroethylene	17.567	166	67050	1.00	ppbv		100
52) Dibromchloromethane	17.567	129	49800	1.01	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	65741	0.94	ppbv		99
55) Chlorobenzene	18.957	112	100297	0.99	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231736.D
Acq On : 27 Mar 2025 6:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO2022225A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 28 08:57:21 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

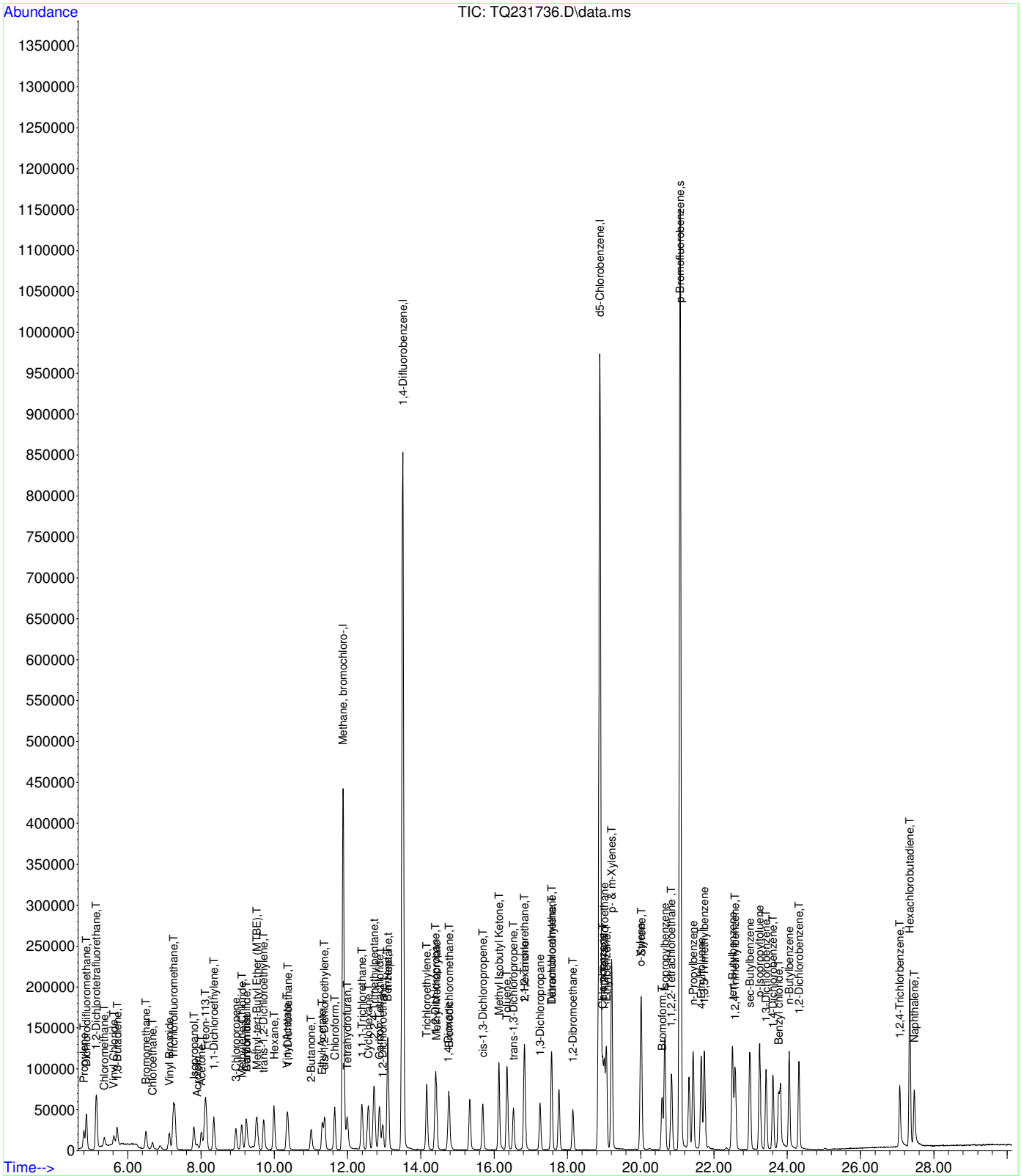
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	55360	1.02	ppbv		98
57) Ethylbenzene	19.067	91	172119	1.02	ppbv		98
58) p- & m-Xylenes	19.207	91	264675	2.06	ppbv		98
59) o-Xylene	20.000	91	137396	1.05	ppbv		99
60) Styrene	20.018	104	95841	1.00	ppbv	#	100
61) Bromoform	20.585	173	62490	0.91	ppbv		100
62) n-Propylbenzene	21.432	91	195762	0.93	ppbv		99
63) Isopropylbenzene	20.658	105	182231	1.00	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.835	83	97119	1.00	ppbv		100
66) 4-Ethyltoluene	21.652	105	161734	0.93	ppbv		99
67) 1,3,5-Trimethylbenzene	21.737	105	138654	0.95	ppbv		98
68) tert-Butylbenzene	22.505	119	152427	0.99	ppbv	#	78
69) 1,2,4-Trimethylbenzene	22.572	105	134962	0.92	ppbv	#	94
70) sec-Butylbenzene	22.981	105	192572	0.92	ppbv		99
71) p-Isopropyltoluene	23.243	119	163109	0.98	ppbv		96
72) 1,3-Dichlorobenzene	23.420	146	83603	0.89	ppbv		100
73) 1,4-Dichlorobenzene	23.609	146	85718	0.89	ppbv		99
74) Benzyl chloride	23.761	91	102738	0.91	ppbv		99
75) n-Butylbenzene	24.054	91	137790	0.92	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	88618	0.95	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	53768	0.82	ppbv		98
78) Hexachlorobutadiene	27.340	225	81668	1.03	ppbv		96
79) Naphthalene	27.468	128	129525	0.79	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231736.D
Acq On : 27 Mar 2025 6:58 pm
Operator : YR
Sample : SEQ-CAL6
Misc : QBTO2022225A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 28 08:57:21 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231737.D
Acq On : 27 Mar 2025 7:54 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO2022225A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 28 08:57:24 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.879	49	417169	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1279753	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1064547	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	834431	10.31	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.10%				
Target Compounds							Qvalue
2) Propylene	4.801	42	24005	1.48	ppbv		97
3) Dichlorodifluoromethane	4.875	85	117400	1.47	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.143	85	122255	1.49	ppbv		95
5) Chloromethane	5.368	50	33290	1.35	ppbv		99
6) Vinyl Chloride	5.631	62	35498	1.41	ppbv		99
7) 1,3-Butadiene	5.704	54	28324	1.48	ppbv		93
8) Bromomethane	6.502	94	45103	1.41	ppbv		98
9) Chloroethane	6.673	64	20598	1.49	ppbv		94
10) Vinyl Bromide	7.130	106	41666	1.43	ppbv		100
11) Trichlorofluoromethane	7.246	101	120574	1.46	ppbv		100
12) Isopropanol	7.807	45	108506	1.58	ppbv		100
13) Acrolein	7.892	56	19547	1.44	ppbv	#	56
14) Acetone	8.014	43	84969	1.47	ppbv		95
15) Freon-113	8.130	101	98152	1.44	ppbv		99
16) 1,1-Dichloroethylene	8.350	61	76622	1.42	ppbv		99
17) 3-Chloropropene	8.959	41	55039	1.38	ppbv		92
18) Methylene Chloride	9.112	49	53431	1.43	ppbv		97
19) Acrylonitrile	9.233	53	34144	1.41	ppbv	#	59
20) Carbon disulfide	9.233	76	140731	1.45	ppbv		98
21) Methyl-tert-Butyl Ethe...	9.514	73	135156	1.47	ppbv		97
22) trans-1,2-Dichloroethy...	9.709	61	71215	1.46	ppbv		97
23) Hexane	9.996	57	70096	1.49	ppbv		96
24) Vinyl Acetate	10.343	43	122749	1.53	ppbv	#	98
25) 1,1-Dichloroethane	10.367	63	88375	1.48	ppbv		97
26) 2-Butanone	11.001	43	96830	1.43	ppbv		96
27) Ethyl Acetate	11.306	43	115617	1.43	ppbv		96
28) cis-1,2-Dichloroethylene	11.373	61	76862	1.48	ppbv		96
29) Chloroform	11.648	83	109427	1.49	ppbv		100
30) Tetrahydrofuran	11.989	42	55986	1.45	ppbv		96
31) 1,1,1-Trichlorethane	12.391	97	109824	1.47	ppbv		100
32) Cyclohexane	12.562	56	78501	1.47	ppbv		96
33) 2,2,4-Trimethylpentane	12.721	57	239443	1.49	ppbv		99
34) Carbon Tetrachloride	12.879	117	97987	1.43	ppbv		100
35) 1,2-Dichloroethane	12.952	62	71931	1.50	ppbv		100
36) Benzene	13.092	78	168641	1.45	ppbv		94
37) n-Heptane	13.105	43	93319	1.45	ppbv	#	97
39) Trichloroethylene	14.159	95	72839	1.41	ppbv		95
40) 1,2-Dichloropropane	14.397	63	59451	1.49	ppbv		97
41) Methyl Methacrylate	14.428	69	54638	1.46	ppbv	#	70
42) 1,4-Dioxane	14.745	88	35685	1.49	ppbv	#	100
43) Bromodichloromethane	14.769	83	116004	1.50	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	127636	1.49	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	90204	1.49	ppbv		98
46) Toluene	16.354	91	214039	1.56	ppbv		98
47) trans-1,3-Dichloropropene	16.525	75	80287	1.50	ppbv		99
48) 1,1,2-Trichlorethane	16.823	97	67720	1.51	ppbv		99
49) 2-Hexanone	16.842	43	111237	1.43	ppbv		100
50) 1,3-Dichloropropane	17.256	76	83682	1.42	ppbv	#	72
51) Tetrachloroethylene	17.567	166	93601	1.40	ppbv		99
52) Dibromchloromethane	17.567	129	68369	1.40	ppbv	#	5
53) 1,2-Dibromoethane	18.152	107	99288	1.44	ppbv		99
55) Chlorobenzene	18.957	112	150951	1.48	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231737.D
Acq On : 27 Mar 2025 7:54 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO2022225A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 28 08:57:24 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

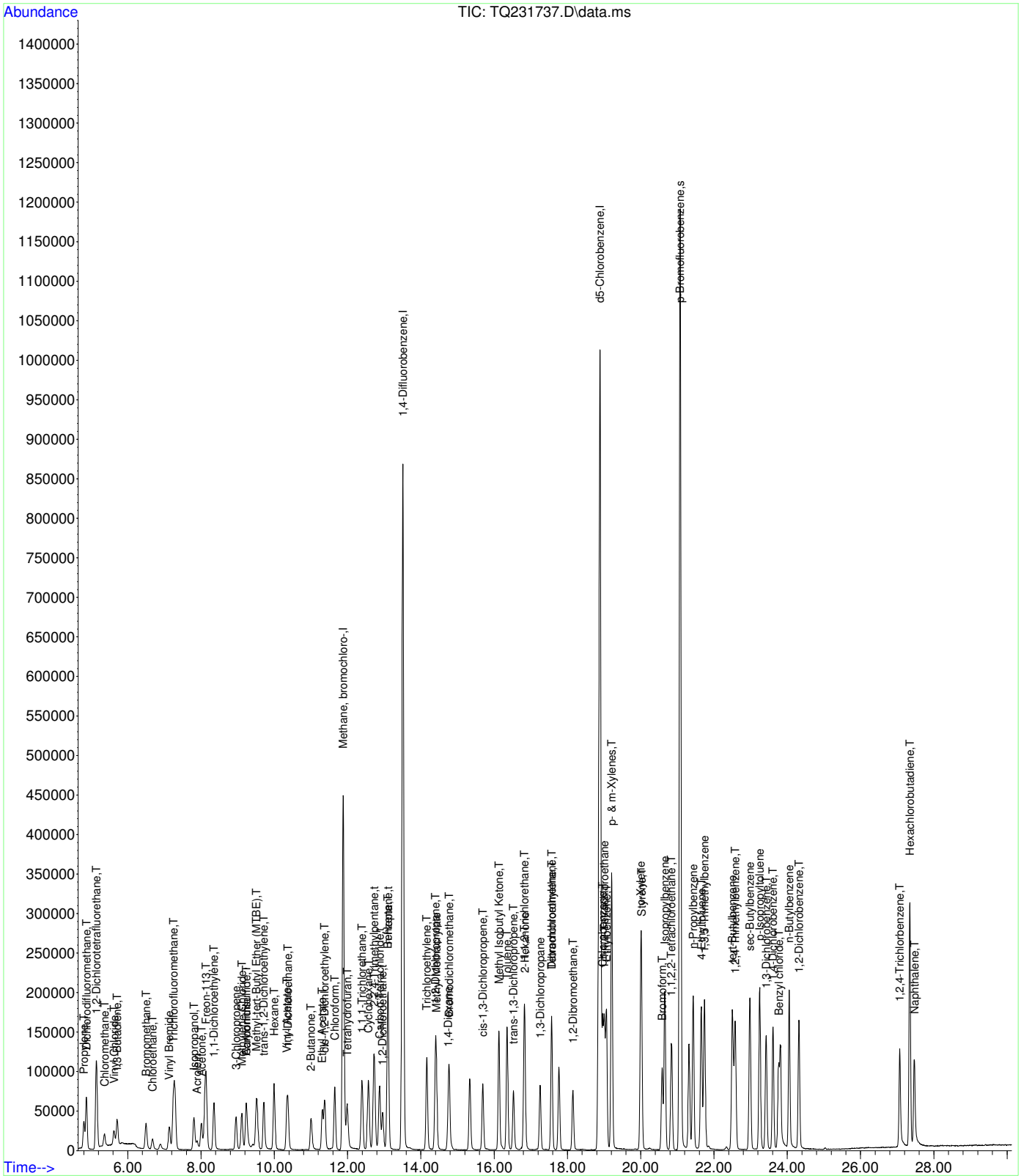
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	84540	1.54	ppbv		97
57) Ethylbenzene	19.067	91	247580	1.45	ppbv		98
58) p- & m-Xylenes	19.207	91	394618	3.04	ppbv		98
59) o-Xylene	20.000	91	198983	1.50	ppbv		99
60) Styrene	20.024	104	142999	1.48	ppbv	#	100
61) Bromoform	20.585	173	95904	1.39	ppbv		99
62) n-Propylbenzene	21.432	91	320676	1.51	ppbv		99
63) Isopropylbenzene	20.658	105	275201	1.51	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.835	83	143405	1.47	ppbv		100
66) 4-Ethyltoluene	21.658	105	257939	1.48	ppbv		100
67) 1,3,5-Trimethylbenzene	21.743	105	221921	1.52	ppbv		98
68) tert-Butylbenzene	22.499	119	221539	1.43	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	213983	1.45	ppbv	#	94
70) sec-Butylbenzene	22.981	105	301244	1.44	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	247438	1.48	ppbv	#	88
72) 1,3-Dichlorobenzene	23.426	146	130654	1.38	ppbv		100
73) 1,4-Dichlorobenzene	23.609	146	137123	1.42	ppbv		99
74) Benzyl chloride	23.767	91	160664	1.42	ppbv		99
75) n-Butylbenzene	24.054	91	221021	1.47	ppbv		100
76) 1,2-Dichlorobenzene	24.316	146	137173	1.46	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	83978	1.27	ppbv		97
78) Hexachlorobutadiene	27.346	225	119589	1.49	ppbv		96
79) Naphthalene	27.474	128	205484	1.25	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231737.D
Acq On : 27 Mar 2025 7:54 pm
Operator : YR
Sample : SEQ-CAL7
Misc : QBTO2022225A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 28 08:57:24 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231738.D
Acq On : 27 Mar 2025 8:52 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO2022225A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 28 08:57:27 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.879	49	409006	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1264786	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1086656	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	854402	10.35	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.50%				
Target Compounds							Qvalue
2) Propylene	4.801	42	28799	1.81	ppbv		97
3) Dichlorodifluoromethane	4.881	85	150679	1.92	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.149	85	157055	1.96	ppbv		95
5) Chloromethane	5.362	50	41777	1.73	ppbv		97
6) Vinyl Chloride	5.624	62	45571	1.84	ppbv		98
7) 1,3-Butadiene	5.716	54	34035	1.81	ppbv		96
8) Bromomethane	6.502	94	59281	1.88	ppbv		98
9) Chloroethane	6.685	64	24534	1.81	ppbv		93
10) Vinyl Bromide	7.136	106	56954	1.99	ppbv		99
11) Trichlorofluoromethane	7.252	101	158491	1.96	ppbv		100
12) Isopropanol	7.801	45	137270	2.03	ppbv		100
13) Acrolein	7.892	56	26069	1.96	ppbv	#	89
14) Acetone	8.008	43	113404	2.00	ppbv		96
15) Freon-113	8.136	101	131830	1.97	ppbv		99
16) 1,1-Dichloroethylene	8.356	61	102292	1.93	ppbv		98
17) 3-Chloropropene	8.959	41	76547	1.95	ppbv		91
18) Methylene Chloride	9.112	49	75900	2.07	ppbv		97
19) Acrylonitrile	9.227	53	50756	2.13	ppbv	#	96
20) Carbon disulfide	9.240	76	192656	2.03	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.526	73	186481	2.07	ppbv		97
22) trans-1,2-Dichloroethy...	9.709	61	95153	1.99	ppbv		97
23) Hexane	10.002	57	92904	2.01	ppbv		96
24) Vinyl Acetate	10.337	43	168337	2.14	ppbv	#	99
25) 1,1-Dichloroethane	10.374	63	118809	2.03	ppbv		98
26) 2-Butanone	11.001	43	132290	1.99	ppbv		97
27) Ethyl Acetate	11.312	43	155286	1.96	ppbv		95
28) cis-1,2-Dichloroethylene	11.373	61	95056	1.87	ppbv		93
29) Chloroform	11.654	83	140475	1.96	ppbv		99
30) Tetrahydrofuran	11.989	42	74773	1.98	ppbv		96
31) 1,1,1-Trichlorethane	12.391	97	147098	2.01	ppbv		100
32) Cyclohexane	12.574	56	106144	2.03	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	321416	2.03	ppbv		98
34) Carbon Tetrachloride	12.873	117	129657	1.92	ppbv		100
35) 1,2-Dichloroethane	12.958	62	93214	1.98	ppbv		99
36) Benzene	13.093	78	222236	1.95	ppbv		95
37) n-Heptane	13.111	43	122795	1.95	ppbv	#	95
39) Trichloroethylene	14.159	95	97945	1.92	ppbv		96
40) 1,2-Dichloropropane	14.397	63	77873	1.97	ppbv		96
41) Methyl Methacrylate	14.422	69	72691	1.96	ppbv	#	70
42) 1,4-Dioxane	14.739	88	47977	2.02	ppbv	#	100
43) Bromodichloromethane	14.775	83	152797	1.99	ppbv		99
44) Methyl Isobutyl Ketone	16.135	43	174644	2.06	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	118477	1.98	ppbv		98
46) Toluene	16.354	91	282814	2.08	ppbv		98
47) trans-1,3-Dichloropropene	16.525	75	108609	2.06	ppbv		99
48) 1,1,2-Trichlorethane	16.824	97	93440	2.10	ppbv		99
49) 2-Hexanone	16.836	43	155346	2.02	ppbv		100
50) 1,3-Dichloropropane	17.256	76	118053	2.03	ppbv	#	72
51) Tetrachloroethylene	17.567	166	137722	2.09	ppbv		99
52) Dibromchloromethane	17.567	129	100210	2.08	ppbv	#	6
53) 1,2-Dibromoethane	18.153	107	138778	2.03	ppbv		99
55) Chlorobenzene	18.951	112	212191	2.04	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231738.D
Acq On : 27 Mar 2025 8:52 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO2022225A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 28 08:57:27 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

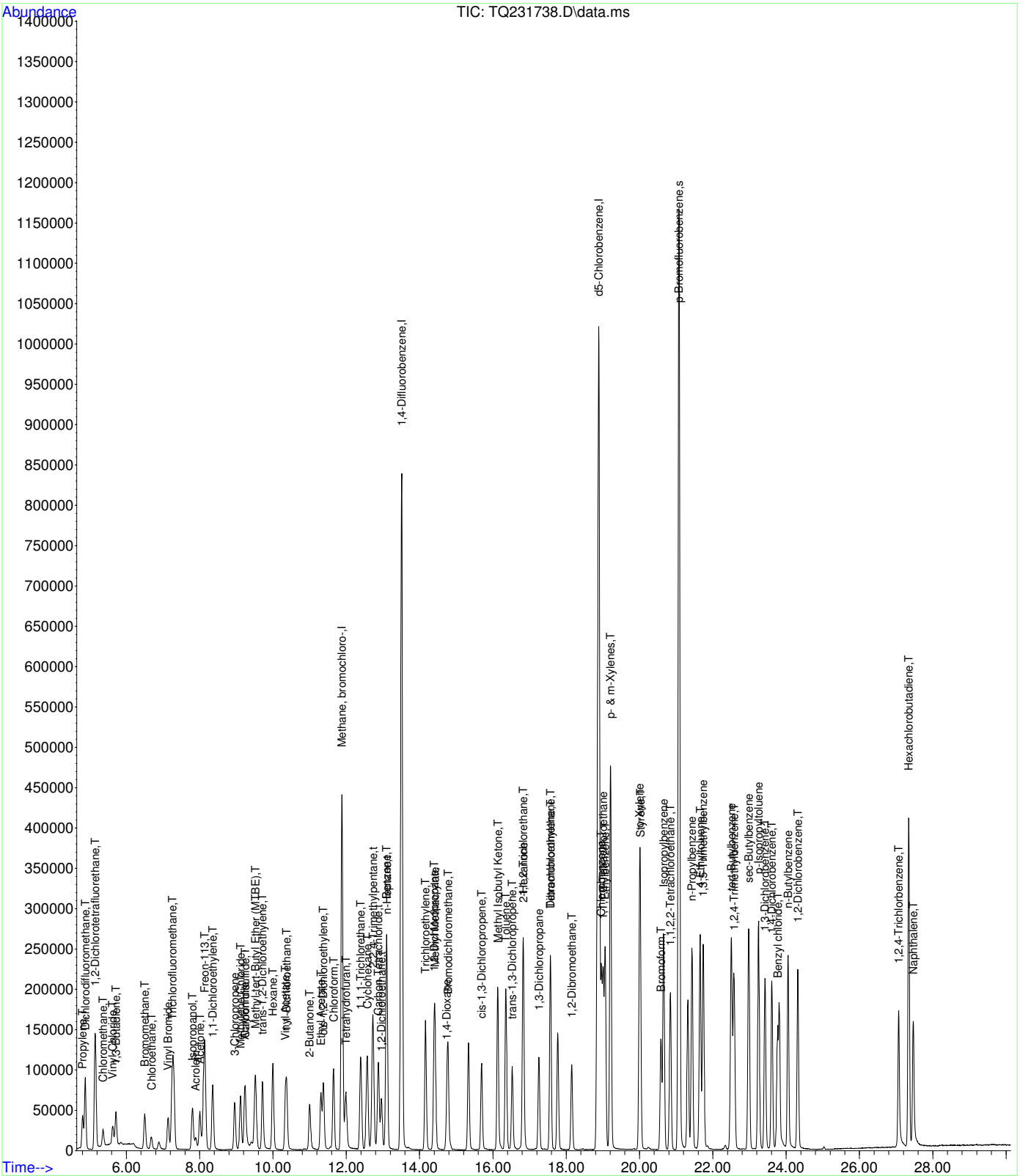
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	114611	2.05	ppbv		96
57) Ethylbenzene	19.061	91	344814	1.98	ppbv		98
58) p- & m-Xylenes	19.207	91	550236	4.16	ppbv		98
59) o-Xylene	20.000	91	269941	2.00	ppbv		99
60) Styrene	20.024	104	200510	2.04	ppbv	#	100
61) Bromoform	20.585	173	132854	1.89	ppbv		99
62) n-Propylbenzene	21.426	91	425077	1.96	ppbv		99
63) Isopropylbenzene	20.658	105	366362	1.96	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	199530	2.00	ppbv		100
66) 4-Ethyltoluene	21.658	105	368878	2.07	ppbv		99
67) 1,3,5-Trimethylbenzene	21.737	105	300397	2.01	ppbv		99
68) tert-Butylbenzene	22.505	119	319144	2.02	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	290378	1.93	ppbv	#	94
70) sec-Butylbenzene	22.981	105	426509	1.99	ppbv		99
71) p-Isopropyltoluene	23.249	119	341689	2.00	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	188816	1.95	ppbv		100
73) 1,4-Dichlorobenzene	23.609	146	183382	1.85	ppbv		99
74) Benzyl chloride	23.767	91	208213	1.80	ppbv		98
75) n-Butylbenzene	24.054	91	275023	1.79	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	181834	1.89	ppbv		99
77) 1,2,4-Trichlorbenzene	27.072	180	108146	1.60	ppbv		98
78) Hexachlorobutadiene	27.340	225	157937	1.93	ppbv		96
79) Naphthalene	27.468	128	273694	1.63	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231738.D
Acq On : 27 Mar 2025 8:52 pm
Operator : YR
Sample : SEQ-CAL8
Misc : QBTO2022225A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 28 08:57:27 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231739.D
Acq On : 27 Mar 2025 9:52 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO2022225A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 08:57:30 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.873	49	409933	10.00	ppbv		-0.01
38) 1,4-Difluorobenzene	13.507	114	1264378	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1139984	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	843794	9.74	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%				
Target Compounds							Qvalue
2) Propylene	4.795	42	39123	2.45	ppbv		97
3) Dichlorodifluoromethane	4.869	85	196609	2.50	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.137	85	195482	2.43	ppbv		95
5) Chloromethane	5.350	50	54795	2.27	ppbv		99
6) Vinyl Chloride	5.618	62	59209	2.39	ppbv		100
7) 1,3-Butadiene	5.704	54	46987	2.49	ppbv		98
8) Bromomethane	6.496	94	76827	2.44	ppbv		98
9) Chloroethane	6.667	64	33213	2.44	ppbv		95
10) Vinyl Bromide	7.130	106	71595	2.50	ppbv		99
11) Trichlorofluoromethane	7.246	101	203552	2.51	ppbv		100
12) Isopropanol	7.789	45	170027	2.51	ppbv		100
13) Acrolein	7.886	56	32465	2.43	ppbv	#	56
14) Acetone	8.002	43	144647	2.54	ppbv		96
15) Freon-113	8.124	101	168908	2.52	ppbv		99
16) 1,1-Dichloroethylene	8.350	61	132621	2.49	ppbv		99
17) 3-Chloropropene	8.947	41	93284	2.37	ppbv		90
18) Methylene Chloride	9.106	49	87249	2.38	ppbv		97
19) Acrylonitrile	9.221	53	59237	2.49	ppbv	#	59
20) Carbon disulfide	9.227	76	238671	2.51	ppbv		100
21) Methyl-tert-Butyl Ethe...	9.514	73	220927	2.45	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	121273	2.53	ppbv		96
23) Hexane	9.996	57	115302	2.49	ppbv		97
24) Vinyl Acetate	10.331	43	198323	2.51	ppbv	#	99
25) 1,1-Dichloroethane	10.367	63	148980	2.54	ppbv		93
26) 2-Butanone	11.001	43	165861	2.49	ppbv		97
27) Ethyl Acetate	11.300	43	195713	2.46	ppbv	#	42
28) cis-1,2-Dichloroethylene	11.373	61	118329	2.32	ppbv		90
29) Chloroform	11.648	83	179381	2.49	ppbv		99
30) Tetrahydrofuran	11.989	42	93349	2.46	ppbv		96
31) 1,1,1-Trichlorethane	12.398	97	181865	2.48	ppbv		100
32) Cyclohexane	12.562	56	128659	2.46	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	392291	2.48	ppbv		98
34) Carbon Tetrachloride	12.873	117	165738	2.45	ppbv		100
35) 1,2-Dichloroethane	12.958	62	114606	2.43	ppbv		100
36) Benzene	13.086	78	284041	2.49	ppbv		94
37) n-Heptane	13.105	43	155805	2.47	ppbv	#	98
39) Trichloroethylene	14.159	95	125395	2.46	ppbv		95
40) 1,2-Dichloropropane	14.397	63	100553	2.55	ppbv		95
41) Methyl Methacrylate	14.422	69	96644	2.61	ppbv		79
42) 1,4-Dioxane	14.732	88	60510	2.55	ppbv	#	100
43) Bromodichloromethane	14.769	83	192368	2.51	ppbv		99
44) Methyl Isobutyl Ketone	16.129	43	217952	2.57	ppbv	#	55
45) cis-1,3-Dichloropropene	15.684	75	151583	2.53	ppbv		98
46) Toluene	16.354	91	349216	2.57	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	135981	2.58	ppbv		99
48) 1,1,2-Trichlorethane	16.824	97	112936	2.54	ppbv		99
49) 2-Hexanone	16.830	43	189714	2.47	ppbv		99
50) 1,3-Dichloropropane	17.256	76	146512	2.52	ppbv		97
51) Tetrachloroethylene	17.567	166	163918	2.48	ppbv		99
52) Dibromchloromethane	17.567	129	119402	2.48	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	172451	2.53	ppbv		99
55) Chlorobenzene	18.951	112	262618	2.41	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231739.D
Acq On : 27 Mar 2025 9:52 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO2022225A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 08:57:30 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

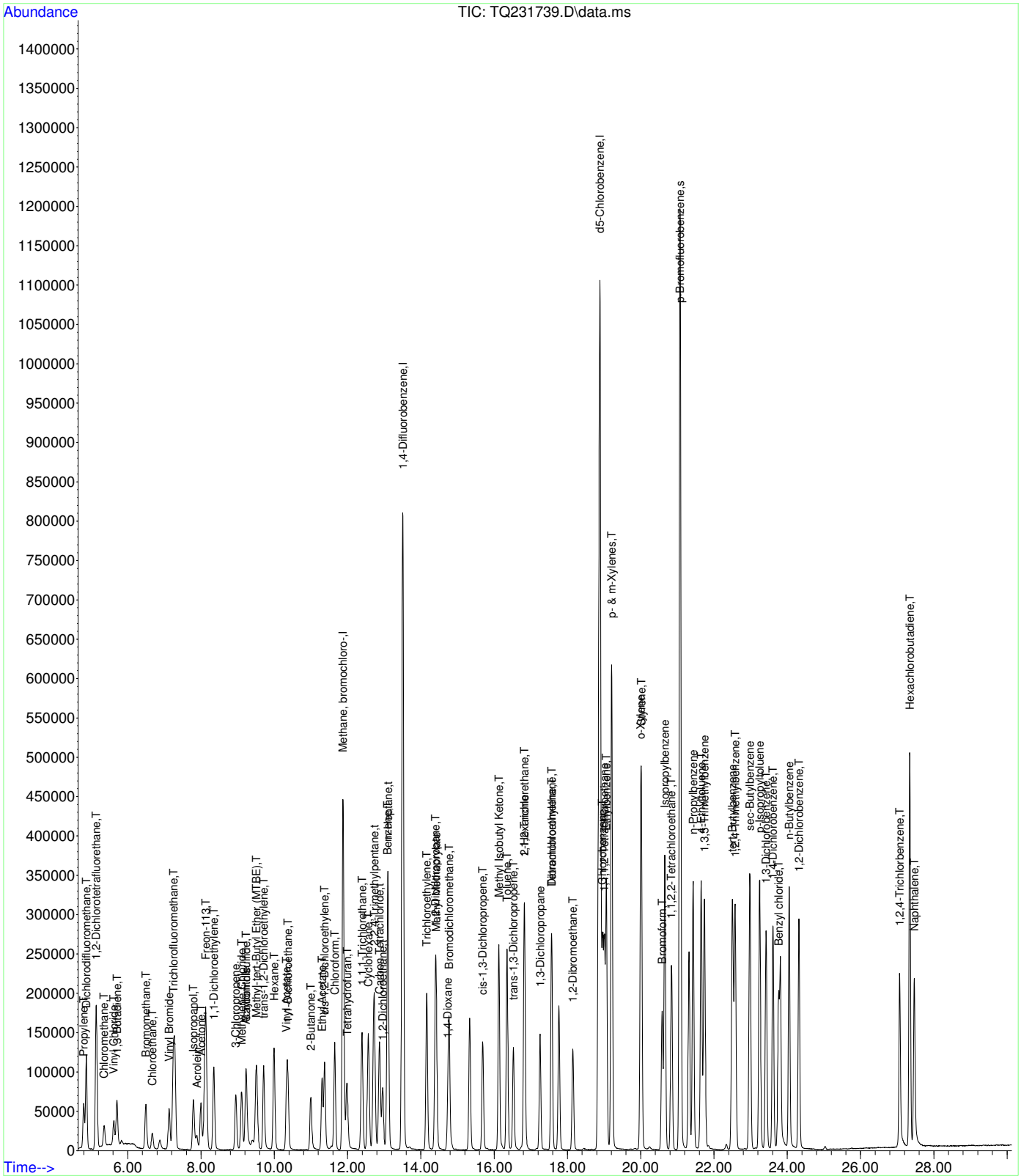
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	140060	2.39	ppbv		95
57) Ethylbenzene	19.061	91	445638	2.44	ppbv		98
58) p- & m-Xylenes	19.207	91	698853	5.04	ppbv		98
59) o-Xylene	20.000	91	356419	2.51	ppbv		99
60) Styrene	20.018	104	264059	2.56	ppbv	#	100
61) Bromoform	20.585	173	165870	2.25	ppbv		99
62) n-Propylbenzene	21.432	91	558582	2.45	ppbv		99
63) Isopropylbenzene	20.658	105	486169	2.48	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.835	83	247508	2.37	ppbv		100
66) 4-Ethyltoluene	21.652	105	473573	2.53	ppbv		97
67) 1,3,5-Trimethylbenzene	21.743	105	378248	2.42	ppbv		98
68) tert-Butylbenzene	22.499	119	404041	2.43	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	395999	2.51	ppbv	#	87
70) sec-Butylbenzene	22.981	105	549809	2.45	ppbv	#	96
71) p-Isopropyltoluene	23.249	119	427572	2.38	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	247738	2.44	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	253779	2.45	ppbv		99
74) Benzyl chloride	23.761	91	284657	2.34	ppbv		99
75) n-Butylbenzene	24.054	91	370731	2.30	ppbv		100
76) 1,2-Dichlorobenzene	24.316	146	237379	2.35	ppbv		99
77) 1,2,4-Trichlorbenzene	27.065	180	139302	1.97	ppbv		98
78) Hexachlorobutadiene	27.346	225	191952	2.24	ppbv		96
79) Naphthalene	27.468	128	351818	2.00	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231739.D
Acq On : 27 Mar 2025 9:52 pm
Operator : YR
Sample : SEQ-CAL9
Misc : QBTO2022225A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 28 08:57:30 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231740.D
Acq On : 27 Mar 2025 10:43 pm
Operator : YR
Sample : SEQ-CALA
Misc : QBTO2022225A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 08:57:33 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.873	49	406154	10.00	ppbv		-0.01
38) 1,4-Difluorobenzene	13.501	114	1269928	10.00	ppbv		-0.01
54) d5-Chlorobenzene	18.884	117	1065318	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	803845	9.93	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.30%				
Target Compounds							Qvalue
2) Propylene	4.789	42	47648	3.01	ppbv		98
3) Dichlorodifluoromethane	4.862	85	249991	3.21	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.131	85	254908	3.20	ppbv		95
5) Chloromethane	5.350	50	70068	2.93	ppbv		98
6) Vinyl Chloride	5.618	62	77890	3.17	ppbv		99
7) 1,3-Butadiene	5.704	54	58634	3.14	ppbv		98
8) Bromomethane	6.496	94	94819	3.04	ppbv		98
9) Chloroethane	6.661	64	43373	3.22	ppbv		94
10) Vinyl Bromide	7.124	106	89706	3.16	ppbv		100
11) Trichlorofluoromethane	7.240	101	255360	3.17	ppbv		99
12) Isopropanol	7.789	45	205805	3.07	ppbv		100
13) Acrolein	7.874	56	41364	3.13	ppbv	#	88
14) Acetone	7.996	43	155843	2.77	ppbv		95
15) Freon-113	8.118	101	206911	3.12	ppbv		99
16) 1,1-Dichloroethylene	8.343	61	162793	3.09	ppbv		99
17) 3-Chloropropene	8.947	41	123210	3.17	ppbv		90
18) Methylene Chloride	9.099	49	117270	3.23	ppbv		97
19) Acrylonitrile	9.215	53	71838	3.04	ppbv	#	89
20) Carbon disulfide	9.227	76	295401	3.14	ppbv		98
21) Methyl-tert-Butyl Ethe...	9.508	73	282018	3.15	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	154375	3.25	ppbv		96
23) Hexane	9.996	57	145365	3.16	ppbv		97
24) Vinyl Acetate	10.331	43	254376	3.25	ppbv	#	98
25) 1,1-Dichloroethane	10.367	63	185525	3.20	ppbv		96
26) 2-Butanone	10.995	43	204381	3.10	ppbv		97
27) Ethyl Acetate	11.300	43	242177	3.07	ppbv	#	42
28) cis-1,2-Dichloroethylene	11.373	61	149095	2.95	ppbv		90
29) Chloroform	11.642	83	225041	3.16	ppbv		100
30) Tetrahydrofuran	11.983	42	120472	3.21	ppbv		95
31) 1,1,1-Trichlorethane	12.391	97	230743	3.18	ppbv		100
32) Cyclohexane	12.568	56	169317	3.26	ppbv		96
33) 2,2,4-Trimethylpentane	12.721	57	487851	3.11	ppbv		98
34) Carbon Tetrachloride	12.873	117	204149	3.05	ppbv		100
35) 1,2-Dichloroethane	12.952	62	142330	3.05	ppbv		100
36) Benzene	13.086	78	351050	3.10	ppbv		96
37) n-Heptane	13.105	43	196283	3.14	ppbv	#	73
39) Trichloroethylene	14.159	95	155232	3.04	ppbv		95
40) 1,2-Dichloropropane	14.397	63	127652	3.22	ppbv		97
41) Methyl Methacrylate	14.415	69	118108	3.18	ppbv	#	41
42) 1,4-Dioxane	14.732	88	70325	2.95	ppbv	#	100
43) Bromodichloromethane	14.769	83	234466	3.05	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	277760	3.26	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	189792	3.16	ppbv		99
46) Toluene	16.354	91	425033	3.12	ppbv		98
47) trans-1,3-Dichloropropene	16.519	75	166839	3.15	ppbv		99
48) 1,1,2-Trichlorethane	16.817	97	141799	3.18	ppbv		100
49) 2-Hexanone	16.830	43	245505	3.18	ppbv		99
50) 1,3-Dichloropropane	17.256	76	181801	3.11	ppbv	#	72
51) Tetrachloroethylene	17.567	166	207952	3.14	ppbv		99
52) Dibromchloromethane	17.567	129	151512	3.13	ppbv	#	5
53) 1,2-Dibromoethane	18.146	107	218945	3.19	ppbv		100
55) Chlorobenzene	18.957	112	322691	3.17	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231740.D
Acq On : 27 Mar 2025 10:43 pm
Operator : YR
Sample : SEQ-CALA
Misc : QBTO2022225A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 08:57:33 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

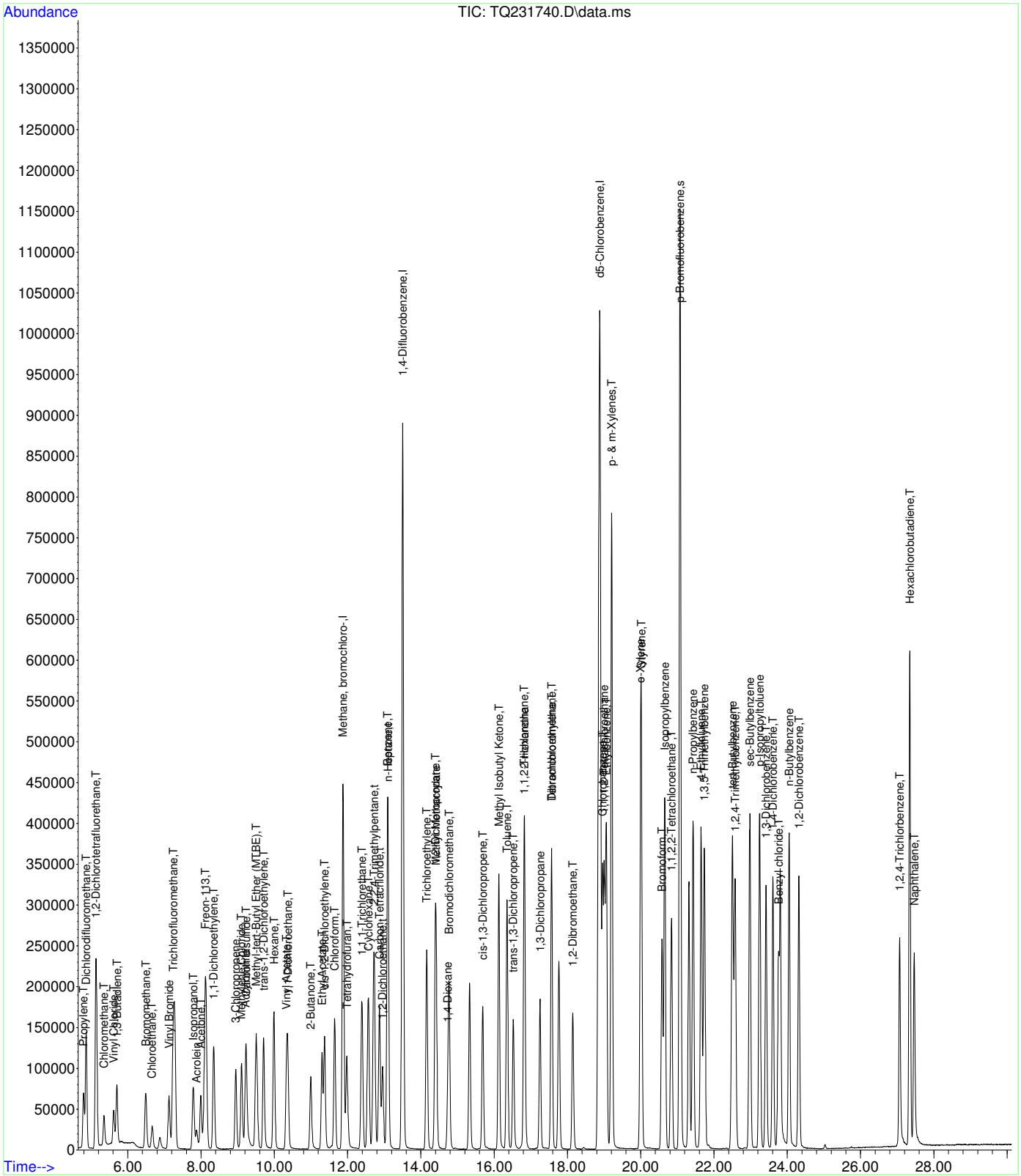
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.000	131	177149	3.23	ppbv		95
57) Ethylbenzene	19.061	91	551467	3.23	ppbv		98
58) p- & m-Xylenes	19.207	91	869899	6.71	ppbv		98
59) o-Xylene	19.994	91	423132	3.19	ppbv		99
60) Styrene	20.018	104	305807	3.17	ppbv	#	100
61) Bromoform	20.579	173	246031	3.56	ppbv		98
62) n-Propylbenzene	21.426	91	673224	3.16	ppbv		99
63) Isopropylbenzene	20.658	105	587731	3.21	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	295173	3.02	ppbv		100
66) 4-Ethyltoluene	21.646	105	554415	3.17	ppbv		97
67) 1,3,5-Trimethylbenzene	21.737	105	435162	2.97	ppbv		99
68) tert-Butylbenzene	22.505	119	468658	3.02	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	429830	2.91	ppbv	#	87
70) sec-Butylbenzene	22.981	105	636444	3.03	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	519667	3.10	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	280876	2.97	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	283033	2.92	ppbv		99
74) Benzyl chloride	23.761	91	337207	2.97	ppbv		99
75) n-Butylbenzene	24.054	91	441217	2.92	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	273371	2.90	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	161935	2.44	ppbv		98
78) Hexachlorobutadiene	27.346	225	234827	2.93	ppbv		96
79) Naphthalene	27.468	128	391134	2.38	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231740.D
Acq On : 27 Mar 2025 10:43 pm
Operator : YR
Sample : SEQ-CALA
Misc : QBTO2022225A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 28 08:57:33 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231741.D
Acq On : 27 Mar 2025 11:35 pm
Operator : YR
Sample : SEQ-CALB
Misc : QBTO2022225A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 28 08:57:36 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.879	49	403223	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1257368	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1086398	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	857090	10.38	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%				
Target Compounds							Qvalue
2) Propylene	4.801	42	79096	5.03	ppbv		98
3) Dichlorodifluoromethane	4.875	85	403349	5.22	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.149	85	421220	5.32	ppbv		95
5) Chloromethane	5.362	50	108595	4.57	ppbv		99
6) Vinyl Chloride	5.624	62	120640	4.94	ppbv		99
7) 1,3-Butadiene	5.704	54	92697	5.00	ppbv		97
8) Bromomethane	6.496	94	154026	4.97	ppbv		100
9) Chloroethane	6.673	64	69367	5.18	ppbv		95
10) Vinyl Bromide	7.130	106	147058	5.22	ppbv		100
11) Trichlorofluoromethane	7.246	101	413388	5.18	ppbv		100
12) Isopropanol	7.789	45	331543	4.98	ppbv		100
13) Acrolein	7.886	56	70160	5.35	ppbv	#	56
14) Acetone	7.996	43	250326	4.47	ppbv		96
15) Freon-113	8.118	101	340932	5.17	ppbv		99
16) 1,1-Dichloroethylene	8.350	61	265196	5.07	ppbv		99
17) 3-Chloropropene	8.959	41	202577	5.24	ppbv		90
18) Methylene Chloride	9.112	49	185381	5.14	ppbv		98
19) Acrylonitrile	9.215	53	124851	5.32	ppbv	#	59
20) Carbon disulfide	9.234	76	492513	5.27	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.520	73	464682	5.23	ppbv		98
22) trans-1,2-Dichloroethy...	9.715	61	247318	5.25	ppbv		97
23) Hexane	9.996	57	245756	5.39	ppbv		98
24) Vinyl Acetate	10.337	43	403052	5.19	ppbv	#	99
25) 1,1-Dichloroethane	10.374	63	299836	5.20	ppbv		94
26) 2-Butanone	11.001	43	326922	4.99	ppbv		96
27) Ethyl Acetate	11.306	43	400654	5.12	ppbv	#	44
28) cis-1,2-Dichloroethylene	11.373	61	243364	4.85	ppbv		89
29) Chloroform	11.648	83	373430	5.28	ppbv		100
30) Tetrahydrofuran	11.983	42	187421	5.03	ppbv		95
31) 1,1,1-Trichlorethane	12.398	97	361227	5.01	ppbv		100
32) Cyclohexane	12.562	56	262718	5.10	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	782859	5.02	ppbv		97
34) Carbon Tetrachloride	12.873	117	334105	5.03	ppbv		100
35) 1,2-Dichloroethane	12.958	62	239182	5.17	ppbv		100
36) Benzene	13.093	78	576588	5.13	ppbv		96
37) n-Heptane	13.111	43	322018	5.19	ppbv	#	95
39) Trichloroethylene	14.159	95	246254	4.87	ppbv		96
40) 1,2-Dichloropropane	14.403	63	197235	5.03	ppbv		95
41) Methyl Methacrylate	14.422	69	189405	5.14	ppbv	#	41
42) 1,4-Dioxane	14.732	88	119567	5.07	ppbv	#	100
43) Bromodichloromethane	14.769	83	393549	5.17	ppbv		99
44) Methyl Isobutyl Ketone	16.129	43	425681	5.05	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	294659	4.95	ppbv		99
46) Toluene	16.360	91	654619	4.85	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	266378	5.08	ppbv		99
48) 1,1,2-Trichlorethane	16.824	97	219725	4.98	ppbv		99
49) 2-Hexanone	16.830	43	382536	5.00	ppbv		99
50) 1,3-Dichloropropane	17.256	76	287253	4.97	ppbv	#	72
51) Tetrachloroethylene	17.567	166	330703	5.04	ppbv		99
52) Dibromchloromethane	17.567	129	241297	5.04	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	342120	5.04	ppbv		99
55) Chlorobenzene	18.957	112	541283	5.21	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231741.D
Acq On : 27 Mar 2025 11:35 pm
Operator : YR
Sample : SEQ-CALB
Misc : QBTO2022225A
ALS Vial : 17 Sample Multiplier: 1

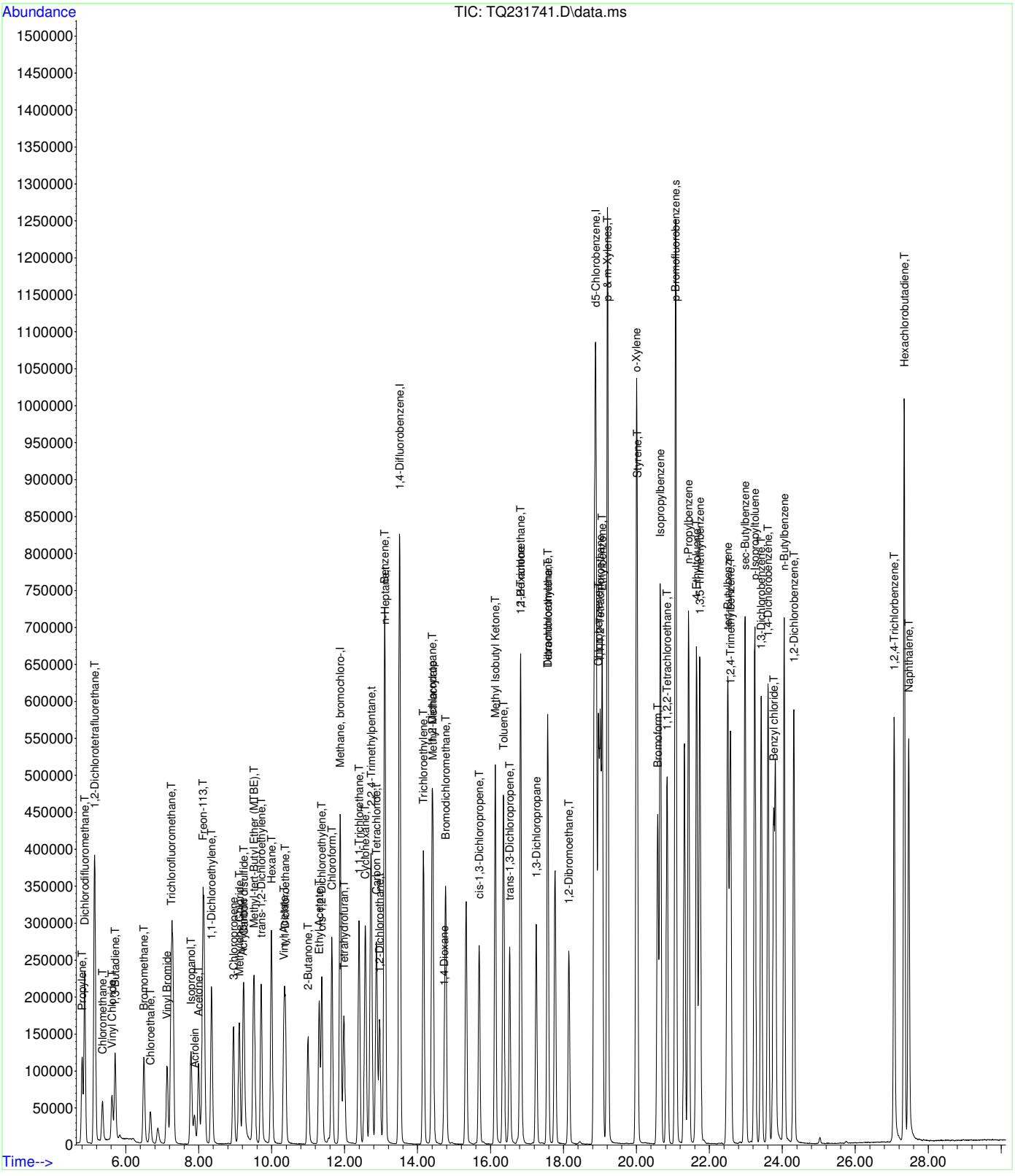
Quant Time: Mar 28 08:57:36 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.006	131	294786	5.27	ppbv		94
57) Ethylbenzene	19.061	91	879577	5.05	ppbv		98
58) p- & m-Xylenes	19.207	91	1430689	10.82	ppbv		98
59) o-Xylene	20.000	91	715510	5.30	ppbv		99
60) Styrene	20.024	104	533781	5.42	ppbv	#	100
61) Bromoform	20.585	173	423473	6.02	ppbv		99
62) n-Propylbenzene	21.426	91	1172567	5.39	ppbv		99
63) Isopropylbenzene	20.652	105	1010712	5.42	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	515878	5.18	ppbv		100
66) 4-Ethyltoluene	21.646	105	946021	5.31	ppbv		97
67) 1,3,5-Trimethylbenzene	21.743	105	760649	5.10	ppbv		98
68) tert-Butylbenzene	22.505	119	779706	4.93	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	734478	4.88	ppbv	#	87
70) sec-Butylbenzene	22.981	105	1096089	5.12	ppbv	#	96
71) p-Isopropyltoluene	23.249	119	864862	5.06	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	521789	5.40	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	531146	5.37	ppbv		99
74) Benzyl chloride	23.761	91	632126	5.46	ppbv		99
75) n-Butylbenzene	24.054	91	765906	4.98	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	481232	5.00	ppbv		99
77) 1,2,4-Trichlorbenzene	27.065	180	347591	5.15	ppbv		98
78) Hexachlorobutadiene	27.346	225	387394	4.74	ppbv		96
79) Naphthalene	27.468	128	848464	5.05	ppbv		99

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

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231741.D
Acq On : 27 Mar 2025 11:35 pm
Operator : YR
Sample : SEQ-CALB
Misc : QBTO2022225A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 28 08:57:36 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231742.D
Acq On : 28 Mar 2025 12:27 am
Operator : YR
Sample : SEQ-CALC
Misc : QBTO2022225A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 28 08:57:39 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	408707	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1286475	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1106307	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	879512	10.46	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.60%				
Target Compounds							Qvalue
2) Propylene	4.807	42	151758	9.53	ppbv		99
3) Dichlorodifluoromethane	4.874	85	778125	9.93	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.149	85	813422	10.14	ppbv		95
5) Chloromethane	5.362	50	213911	8.89	ppbv		99
6) Vinyl Chloride	5.624	62	235236	9.51	ppbv		100
7) 1,3-Butadiene	5.716	54	173720	9.24	ppbv		95
8) Bromomethane	6.502	94	301470	9.59	ppbv		100
9) Chloroethane	6.685	64	138990	10.24	ppbv		96
10) Vinyl Bromide	7.136	106	291129	10.19	ppbv		99
11) Trichlorofluoromethane	7.258	101	804663	9.94	ppbv		100
12) Isopropanol	7.795	45	625644	9.28	ppbv		100
13) Acrolein	7.886	56	133346	10.02	ppbv	#	56
14) Acetone	8.002	43	468622	8.26	ppbv		95
15) Freon-113	8.136	101	641894	9.60	ppbv		99
16) 1,1-Dichloroethylene	8.362	61	515099	9.71	ppbv		99
17) 3-Chloropropene	8.953	41	369151	9.43	ppbv		90
18) Methylene Chloride	9.118	49	360492	9.86	ppbv		98
19) Acrylonitrile	9.215	53	233118	9.81	ppbv	#	59
20) Carbon disulfide	9.239	76	926062	9.77	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.520	73	880652	9.79	ppbv		98
22) trans-1,2-Dichloroethy...	9.721	61	480213	10.05	ppbv		97
23) Hexane	10.002	57	452179	9.78	ppbv		97
24) Vinyl Acetate	10.343	43	744464	9.46	ppbv	#	99
25) 1,1-Dichloroethane	10.380	63	584706	10.01	ppbv		89
26) 2-Butanone	10.995	43	653493	9.83	ppbv		97
27) Ethyl Acetate	11.306	43	769396	9.69	ppbv	#	44
28) cis-1,2-Dichloroethylene	11.385	61	477201	9.39	ppbv		90
29) Chloroform	11.654	83	712043	9.93	ppbv		99
30) Tetrahydrofuran	11.983	42	366455	9.71	ppbv		96
31) 1,1,1-Trichlorethane	12.403	97	727147	9.95	ppbv		100
32) Cyclohexane	12.574	56	509839	9.76	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	1573886	9.97	ppbv		97
34) Carbon Tetrachloride	12.885	117	665596	9.89	ppbv		100
35) 1,2-Dichloroethane	12.964	62	461186	9.83	ppbv	#	86
36) Benzene	13.092	78	1051268	9.23	ppbv		95
37) n-Heptane	13.111	43	587775	9.34	ppbv	#	73
39) Trichloroethylene	14.165	95	499185	9.64	ppbv		96
40) 1,2-Dichloropropane	14.403	63	389020	9.70	ppbv		94
41) Methyl Methacrylate	14.421	69	377028	10.01	ppbv	#	41
42) 1,4-Dioxane	14.738	88	235838	9.78	ppbv	#	100
43) Bromodichloromethane	14.775	83	782836	10.04	ppbv		99
44) Methyl Isobutyl Ketone	16.134	43	899254	10.43	ppbv	#	55
45) cis-1,3-Dichloropropene	15.689	75	599372	9.84	ppbv		99
46) Toluene	16.360	91	1341116	9.71	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	533580	9.94	ppbv		99
48) 1,1,2-Trichlorethane	16.823	97	439797	9.74	ppbv		99
49) 2-Hexanone	16.836	43	769204	9.82	ppbv		100
50) 1,3-Dichloropropane	17.256	76	596039	10.07	ppbv	#	72
51) Tetrachloroethylene	17.573	166	645351	9.61	ppbv		99
52) Dibromchloromethane	17.573	129	469070	9.58	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	707625	10.19	ppbv		99
55) Chlorobenzene	18.963	112	1039698	9.82	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231742.D
Acq On : 28 Mar 2025 12:27 am
Operator : YR
Sample : SEQ-CALC
Misc : QBTO2022225A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 28 08:57:39 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

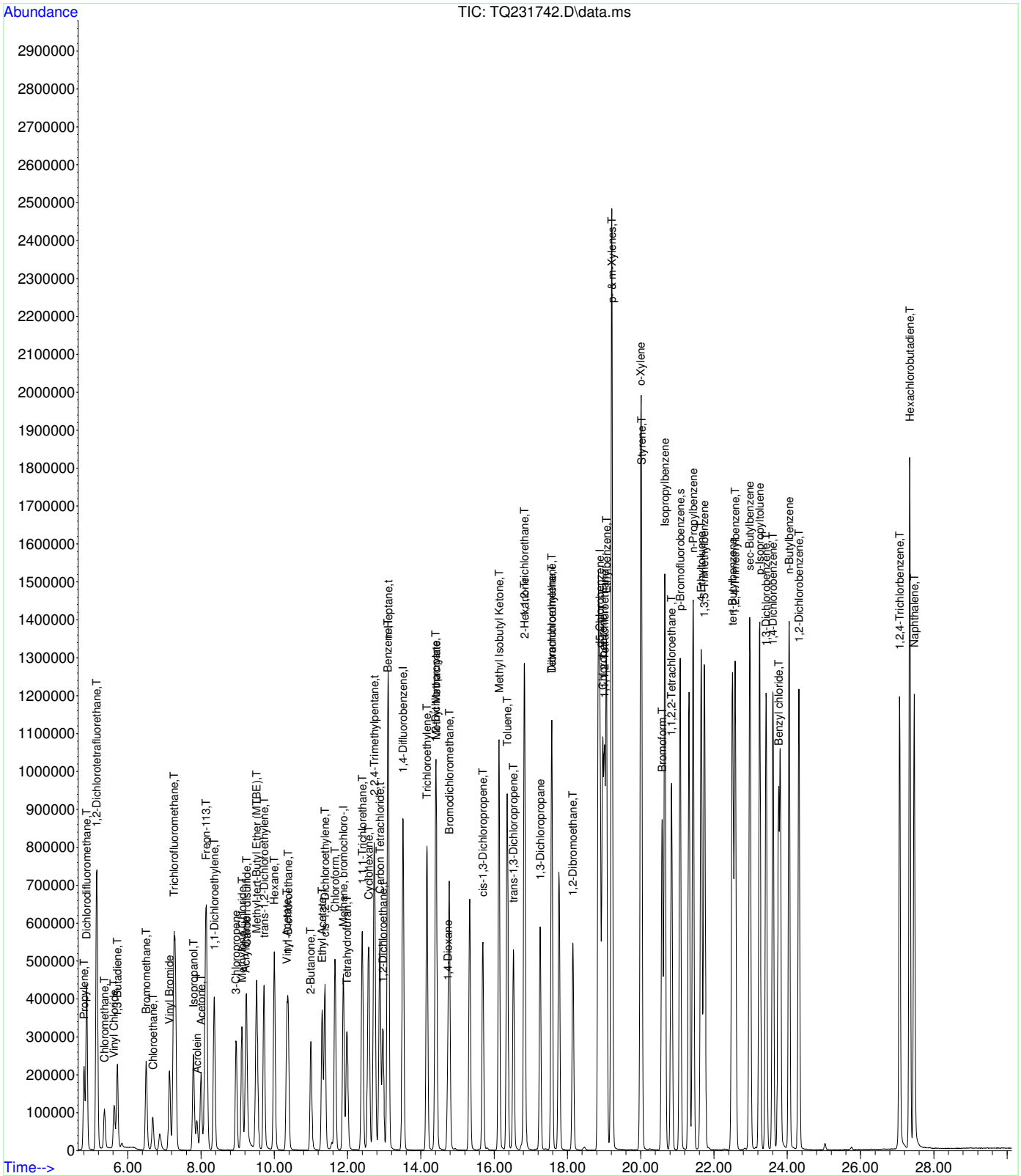
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	557786	9.79	ppbv		93
57) Ethylbenzene	19.067	91	1815410	10.24	ppbv		99
58) p- & m-Xylenes	19.213	91	2743431	20.37	ppbv		98
59) o-Xylene	20.000	91	1413204	10.27	ppbv		99
60) Styrene	20.024	104	1063917	10.61	ppbv	#	100
61) Bromoform	20.585	173	816055	11.38	ppbv		99
62) n-Propylbenzene	21.432	91	2356558	10.65	ppbv		99
63) Isopropylbenzene	20.658	105	1984340	10.45	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	988151	9.74	ppbv		99
66) 4-Ethyltoluene	21.652	105	1903225	10.49	ppbv		97
67) 1,3,5-Trimethylbenzene	21.737	105	1499585	9.87	ppbv		99
68) tert-Butylbenzene	22.505	119	1589879	9.87	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	1585738	10.34	ppbv	#	88
70) sec-Butylbenzene	22.975	105	2162902	9.92	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	1659968	9.53	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	1048235	10.66	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	1058143	10.51	ppbv		99
74) Benzyl chloride	23.761	91	1302968	11.05	ppbv		98
75) n-Butylbenzene	24.054	91	1553787	9.92	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	986333	10.07	ppbv		99
77) 1,2,4-Trichlorbenzene	27.065	180	696627	10.13	ppbv		98
78) Hexachlorobutadiene	27.346	225	699385	8.40	ppbv		96
79) Naphthalene	27.468	128	1727166	10.10	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231742.D
Acq On : 28 Mar 2025 12:27 am
Operator : YR
Sample : SEQ-CALC
Misc : QBTO2022225A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 28 08:57:39 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231743.D
Acq On : 28 Mar 2025 1:21 am
Operator : YR
Sample : SEQ-CALD
Misc : QBTO2022225A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 28 08:57:42 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	379196	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1172002	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1048047	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	866412	10.88	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.80%				
Target Compounds							Qvalue
2) Propylene	4.789	42	206260	13.96	ppbv		97
3) Dichlorodifluoromethane	4.862	85	1079158	14.84	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.137	85	1124913	15.11	ppbv		95
5) Chloromethane	5.344	50	299541	13.41	ppbv		99
6) Vinyl Chloride	5.612	62	324680	14.15	ppbv		100
7) 1,3-Butadiene	5.698	54	250521	14.36	ppbv		96
8) Bromomethane	6.490	94	424981	14.57	ppbv		100
9) Chloroethane	6.667	64	184763	14.68	ppbv		94
10) Vinyl Bromide	7.130	106	414595	15.65	ppbv		99
11) Trichlorofluoromethane	7.240	101	1131860	15.07	ppbv		100
12) Isopropanol	7.783	45	848728	13.57	ppbv		100
13) Acrolein	7.874	56	192666	15.61	ppbv	#	56
14) Acetone	7.984	43	653044	12.41	ppbv		94
15) Freon-113	8.118	101	947960	15.29	ppbv		99
16) 1,1-Dichloroethylene	8.350	61	750841	15.26	ppbv		99
17) 3-Chloropropene	8.947	41	531263	14.62	ppbv		89
18) Methylene Chloride	9.105	49	504125	14.86	ppbv		97
19) Acrylonitrile	9.209	53	333032	15.10	ppbv	#	59
20) Carbon disulfide	9.227	76	1323961	15.05	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.508	73	1262339	15.12	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	682162	15.39	ppbv		97
23) Hexane	10.002	57	617755	14.40	ppbv		97
24) Vinyl Acetate	10.331	43	926912	12.70	ppbv	#	99
25) 1,1-Dichloroethane	10.374	63	780131	14.39	ppbv		84
26) 2-Butanone	10.995	43	910150	14.76	ppbv		96
27) Ethyl Acetate	11.300	43	1118565	15.19	ppbv	#	45
28) cis-1,2-Dichloroethylene	11.373	61	638682	13.55	ppbv		90
29) Chloroform	11.654	83	1010365	15.19	ppbv		99
30) Tetrahydrofuran	11.983	42	524928	14.98	ppbv		96
31) 1,1,1-Trichlorethane	12.397	97	985046	14.53	ppbv		100
32) Cyclohexane	12.568	56	690719	14.26	ppbv		95
33) 2,2,4-Trimethylpentane	12.727	57	2174396	14.84	ppbv		97
34) Carbon Tetrachloride	12.879	117	971016	15.55	ppbv		100
35) 1,2-Dichloroethane	12.964	62	671713	15.43	ppbv		100
36) Benzene	13.092	78	1572122	14.87	ppbv		96
37) n-Heptane	13.105	43	889363	15.24	ppbv	#	97
39) Trichloroethylene	14.165	95	691027	14.65	ppbv		95
40) 1,2-Dichloropropane	14.397	63	545465	14.92	ppbv		94
41) Methyl Methacrylate	14.428	69	529163	15.42	ppbv	#	71
42) 1,4-Dioxane	14.732	88	335618	15.28	ppbv	#	100
43) Bromodichloromethane	14.775	83	1115412	15.71	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	1229911	15.66	ppbv	#	55
45) cis-1,3-Dichloropropene	15.690	75	889939	16.04	ppbv		99
46) Toluene	16.354	91	1918833	15.25	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	769805	15.74	ppbv		99
48) 1,1,2-Trichlorethane	16.823	97	619247	15.05	ppbv		99
49) 2-Hexanone	16.823	43	1099687	15.41	ppbv		99
50) 1,3-Dichloropropane	17.256	76	833272	15.46	ppbv	#	72
51) Tetrachloroethylene	17.567	166	954455	15.61	ppbv		99
52) Dibromchloromethane	17.567	129	693034	15.53	ppbv	#	6
53) 1,2-Dibromoethane	18.152	107	1058854	16.74	ppbv		99
55) Chlorobenzene	18.957	112	1522968	15.19	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231743.D
Acq On : 28 Mar 2025 1:21 am
Operator : YR
Sample : SEQ-CALD
Misc : QBTO2022225A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 28 08:57:42 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

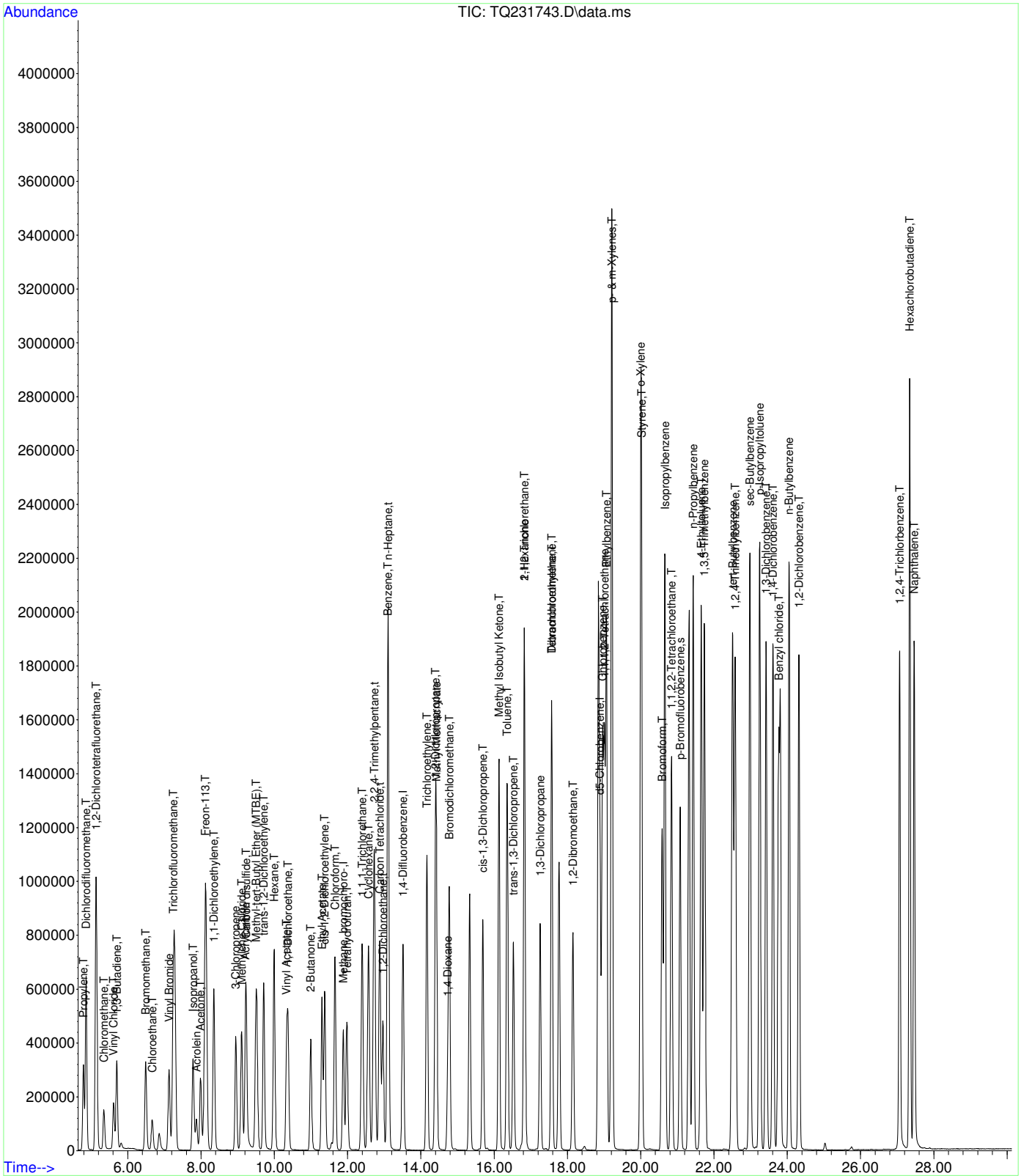
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	826270	15.31	ppbv		93
57) Ethylbenzene	19.067	91	2705651	16.11	ppbv		99
58) p- & m-Xylenes	19.213	91	3841218	30.10	ppbv		98
59) o-Xylene	20.000	91	2025512	15.54	ppbv		99
60) Styrene	20.024	104	1533559	16.15	ppbv	#	100
61) Bromoform	20.585	173	1151199	16.95	ppbv		99
62) n-Propylbenzene	21.432	91	3488068	16.63	ppbv		99
63) Isopropylbenzene	20.664	105	2863686	15.92	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	1506236	15.67	ppbv		100
66) 4-Ethyltoluene	21.652	105	2836839	16.51	ppbv		99
67) 1,3,5-Trimethylbenzene	21.737	105	2222275	15.43	ppbv		98
68) tert-Butylbenzene	22.511	119	2420723	15.86	ppbv	#	83
69) 1,2,4-Trimethylbenzene	22.578	105	2373303	16.34	ppbv	#	88
70) sec-Butylbenzene	22.981	105	3349501	16.22	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	2740359	16.61	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	1624580	17.43	ppbv		100
73) 1,4-Dichlorobenzene	23.609	146	1616854	16.96	ppbv		99
74) Benzyl chloride	23.767	91	2103101	18.83	ppbv		99
75) n-Butylbenzene	24.048	91	2468921	16.63	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	1517884	16.36	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	1099287	16.87	ppbv		98
78) Hexachlorobutadiene	27.340	225	1064562	13.50	ppbv		96
79) Naphthalene	27.462	128	2750213	16.98	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231743.D
Acq On : 28 Mar 2025 1:21 am
Operator : YR
Sample : SEQ-CALD
Misc : QBTO2022225A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 28 08:57:42 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231744.D
Acq On : 28 Mar 2025 2:17 am
Operator : YR
Sample : SEQ-CALE
Misc : QBTO2022225A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 28 08:57:45 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.891	49	401223	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.519	114	1321488	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1055647	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	881251	10.99	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.90%				
Target Compounds							Qvalue
2) Propylene	4.807	42	291656	18.65	ppbv		97
3) Dichlorodifluoromethane	4.881	85	1520478	19.76	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.155	85	1590679	20.20	ppbv		95
5) Chloromethane	5.368	50	419948	17.77	ppbv		99
6) Vinyl Chloride	5.637	62	473020	19.48	ppbv		100
7) 1,3-Butadiene	5.722	54	355031	19.24	ppbv		96
8) Bromomethane	6.508	94	583524	18.91	ppbv		100
9) Chloroethane	6.685	64	264906	19.89	ppbv		95
10) Vinyl Bromide	7.142	106	562199	20.05	ppbv		100
11) Trichlorofluoromethane	7.258	101	1573240	19.80	ppbv		100
12) Isopropanol	7.795	45	1159151	17.51	ppbv		100
13) Acrolein	7.892	56	261962	20.06	ppbv	#	56
14) Acetone	8.008	43	907750	16.31	ppbv		95
15) Freon-113	8.142	101	1317811	20.09	ppbv		98
16) 1,1-Dichloroethylene	8.368	61	1037409	19.92	ppbv		99
17) 3-Chloropropene	8.965	41	743899	19.35	ppbv		89
18) Methylene Chloride	9.118	49	703263	19.59	ppbv		98
19) Acrylonitrile	9.221	53	473493	20.29	ppbv	#	59
20) Carbon disulfide	9.240	76	1826638	19.63	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.526	73	1755837	19.88	ppbv		98
22) trans-1,2-Dichloroethy...	9.721	61	933931	19.91	ppbv		97
23) Hexane	10.002	57	897949	19.78	ppbv		97
24) Vinyl Acetate	10.343	43	1354057	17.53	ppbv	#	99
25) 1,1-Dichloroethane	10.386	63	1095044	19.10	ppbv		87
26) 2-Butanone	11.001	43	1304189	19.99	ppbv		97
27) Ethyl Acetate	11.312	43	1525763	19.58	ppbv	#	43
28) cis-1,2-Dichloroethylene	11.385	61	900784	18.06	ppbv		88
29) Chloroform	11.666	83	1409363	20.02	ppbv		99
30) Tetrahydrofuran	11.989	42	747421	20.16	ppbv		96
31) 1,1,1-Trichlorethane	12.410	97	1443391	20.13	ppbv		100
32) Cyclohexane	12.580	56	998855	19.49	ppbv		95
33) 2,2,4-Trimethylpentane	12.733	57	3021858	19.49	ppbv		97
34) Carbon Tetrachloride	12.885	117	1381320	20.90	ppbv		100
35) 1,2-Dichloroethane	12.970	62	930069	20.19	ppbv		100
36) Benzene	13.105	78	2164640	19.35	ppbv		96
37) n-Heptane	13.111	43	1226873	19.87	ppbv	#	97
39) Trichloroethylene	14.171	95	951788	17.89	ppbv		95
40) 1,2-Dichloropropane	14.403	63	770663	18.70	ppbv		94
41) Methyl Methacrylate	14.428	69	749146	19.36	ppbv	#	71
42) 1,4-Dioxane	14.738	88	481207	19.43	ppbv	#	100
43) Bromodichloromethane	14.781	83	1574684	19.67	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	1666515	18.82	ppbv	#	55
45) cis-1,3-Dichloropropene	15.696	75	1219408	19.49	ppbv		99
46) Toluene	16.360	91	2604232	18.35	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	1113568	20.19	ppbv		99
48) 1,1,2-Trichlorethane	16.829	97	863474	18.62	ppbv		100
49) 2-Hexanone	16.836	43	1544283	19.20	ppbv		99
50) 1,3-Dichloropropane	17.262	76	1188648	19.55	ppbv	#	72
51) Tetrachloroethylene	17.573	166	1305994	18.94	ppbv		99
52) Dibromchloromethane	17.573	129	953630	18.95	ppbv	#	6
53) 1,2-Dibromoethane	18.152	107	1366063	19.15	ppbv		99
55) Chlorobenzene	18.957	112	1981594	19.62	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231744.D
Acq On : 28 Mar 2025 2:17 am
Operator : YR
Sample : SEQ-CALE
Misc : QBTO2022225A
ALS Vial : 20 Sample Multiplier: 1

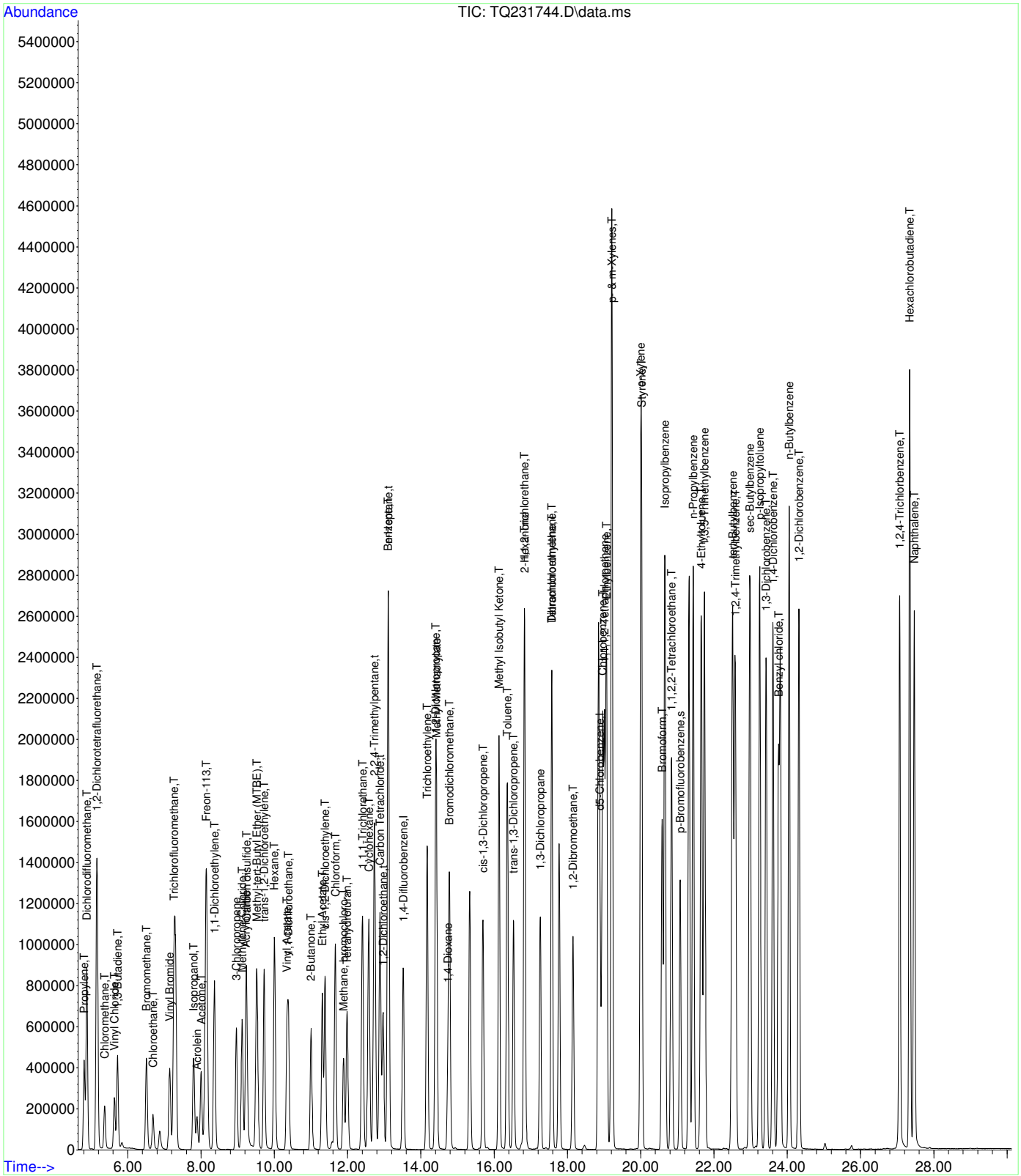
Quant Time: Mar 28 08:57:45 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	1083580	19.93	ppbv		93
57) Ethylbenzene	19.067	91	3455936	20.43	ppbv		98
58) p- & m-Xylenes	19.213	91	5052786	39.31	ppbv		97
59) o-Xylene	20.000	91	2633755	20.06	ppbv		99
60) Styrene	20.024	104	2044220	21.37	ppbv	#	100
61) Bromoform	20.585	173	1533937	22.43	ppbv		99
62) n-Propylbenzene	21.432	91	4710116	22.30	ppbv		99
63) Isopropylbenzene	20.658	105	3909878	21.58	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	2011590	20.77	ppbv		100
66) 4-Ethyltoluene	21.652	105	3808480	22.00	ppbv		100
67) 1,3,5-Trimethylbenzene	21.743	105	3048389	21.02	ppbv		98
68) tert-Butylbenzene	22.511	119	3301931	21.48	ppbv	#	83
69) 1,2,4-Trimethylbenzene	22.584	105	3187585	21.78	ppbv	#	87
70) sec-Butylbenzene	22.981	105	4511213	21.69	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	3464719	20.85	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	2145756	22.86	ppbv		100
73) 1,4-Dichlorobenzene	23.615	146	2182404	22.72	ppbv		100
74) Benzyl chloride	23.761	91	2724234	24.22	ppbv		99
75) n-Butylbenzene	24.054	91	3345312	22.37	ppbv		100
76) 1,2-Dichlorobenzene	24.316	146	2099490	22.46	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	1564579	23.84	ppbv		99
78) Hexachlorobutadiene	27.340	225	1465854	18.46	ppbv		96
79) Naphthalene	27.468	128	3763700	23.06	ppbv		99

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

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231744.D
Acq On : 28 Mar 2025 2:17 am
Operator : YR
Sample : SEQ-CALE
Misc : QBTO2022225A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 28 08:57:45 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231745.D
Acq On : 28 Mar 2025 3:15 am
Operator : YR
Sample : SEQ-CALF
Misc : QBTO2022225A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 28 08:57:48 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.892	49	397050	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1264367	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1081862	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	871394	10.60	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.00%				
Target Compounds							Qvalue
2) Propylene	4.795	42	404432	26.14	ppbv		97
3) Dichlorodifluoromethane	4.869	85	2161510	28.39	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.149	85	2268112	29.10	ppbv		96
5) Chloromethane	5.362	50	613393	26.23	ppbv		99
6) Vinyl Chloride	5.631	62	677398	28.20	ppbv		100
7) 1,3-Butadiene	5.710	54	522428	28.61	ppbv		96
8) Bromomethane	6.502	94	856520	28.05	ppbv		100
9) Chloroethane	6.679	64	397793	30.17	ppbv		95
10) Vinyl Bromide	7.136	106	813562	29.32	ppbv		99
11) Trichlorofluoromethane	7.264	101	2295278	29.18	ppbv		100
12) Isopropanol	7.801	45	1793128	27.37	ppbv		100
13) Acrolein	7.886	56	387857	30.01	ppbv	#	56
14) Acetone	8.002	43	1322222	24.00	ppbv		95
15) Freon-113	8.136	101	1910620	29.43	ppbv		98
16) 1,1-Dichloroethylene	8.356	61	1475081	28.63	ppbv		99
17) 3-Chloropropene	8.965	41	1097580	28.85	ppbv		89
18) Methylene Chloride	9.112	49	1032245	29.05	ppbv		98
19) Acrylonitrile	9.221	53	704973	30.53	ppbv	#	59
20) Carbon disulfide	9.234	76	2716013	29.49	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.520	73	2575402	29.46	ppbv		98
22) trans-1,2-Dichloroethy...	9.721	61	1368904	29.49	ppbv		97
23) Hexane	10.002	57	1248217	27.78	ppbv		97
24) Vinyl Acetate	10.343	43	2093503	27.39	ppbv	#	99
25) 1,1-Dichloroethane	10.386	63	1644238	28.97	ppbv		89
26) 2-Butanone	11.001	43	1910743	29.60	ppbv		96
27) Ethyl Acetate	11.306	43	2246373	29.13	ppbv	#	43
28) cis-1,2-Dichloroethylene	11.386	61	1282625	25.98	ppbv		88
29) Chloroform	11.660	83	2042868	29.32	ppbv		99
30) Tetrahydrofuran	11.983	42	1088824	29.68	ppbv		96
31) 1,1,1-Trichlorethane	12.404	97	2112729	29.77	ppbv		100
32) Cyclohexane	12.574	56	1506191	29.69	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	4218379	27.49	ppbv		98
34) Carbon Tetrachloride	12.885	117	1913257	29.26	ppbv		100
35) 1,2-Dichloroethane	12.971	62	1365142	29.94	ppbv		100
36) Benzene	13.099	78	3098796	27.99	ppbv		96
37) n-Heptane	13.111	43	1748986	28.62	ppbv	#	73
39) Trichloroethylene	14.172	95	1393304	27.38	ppbv		95
40) 1,2-Dichloropropane	14.409	63	1131055	28.68	ppbv		94
41) Methyl Methacrylate	14.422	69	1098634	29.67	ppbv	#	71
42) 1,4-Dioxane	14.745	88	686799	28.98	ppbv	#	100
43) Bromodichloromethane	14.787	83	2228820	29.10	ppbv		99
44) Methyl Isobutyl Ketone	16.135	43	2471156	29.17	ppbv	#	55
45) cis-1,3-Dichloropropene	15.696	75	1808770	30.21	ppbv		99
46) Toluene	16.360	91	3804315	28.02	ppbv		99
47) trans-1,3-Dichloropropene	16.531	75	1545799	29.29	ppbv		99
48) 1,1,2-Trichlorethane	16.830	97	1284429	28.94	ppbv		100
49) 2-Hexanone	16.836	43	2316641	30.10	ppbv		100
50) 1,3-Dichloropropane	17.256	76	1732738	29.79	ppbv	#	90
51) Tetrachloroethylene	17.573	166	1863510	28.25	ppbv		99
52) Dibromchloromethane	17.573	129	1358409	28.22	ppbv	#	6
53) 1,2-Dibromoethane	18.153	107	2070326	30.33	ppbv		100
55) Chlorobenzene	18.957	112	3047736	29.44	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231745.D
Acq On : 28 Mar 2025 3:15 am
Operator : YR
Sample : SEQ-CALF
Misc : QBTO2022225A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 28 08:57:48 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

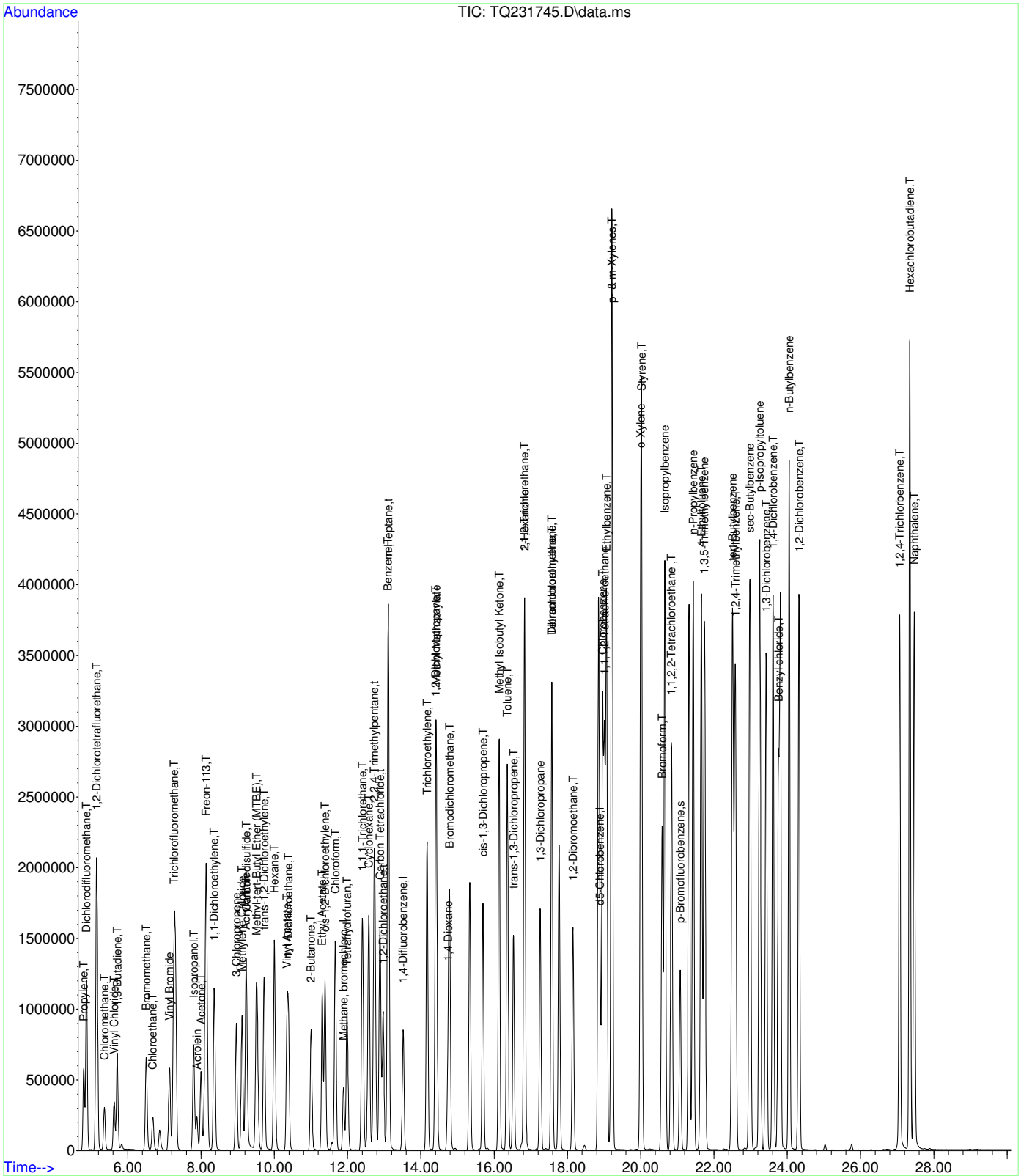
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	1573481	28.24	ppbv		93
57) Ethylbenzene	19.067	91	5292427	30.53	ppbv		99
58) p- & m-Xylenes	19.213	91	7464836	56.67	ppbv		98
59) o-Xylene	20.000	91	3773566	28.05	ppbv		99
60) Styrene	20.024	104	2923084	29.82	ppbv	#	100
61) Bromoform	20.585	173	2177241	31.06	ppbv		99
62) n-Propylbenzene	21.432	91	6570909	30.36	ppbv		99
63) Isopropylbenzene	20.658	105	5448787	29.35	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.835	83	2924356	29.46	ppbv		100
66) 4-Ethyltoluene	21.658	105	5548679	31.28	ppbv		99
67) 1,3,5-Trimethylbenzene	21.737	105	4509977	30.34	ppbv		99
68) tert-Butylbenzene	22.505	119	4833275	30.68	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.585	105	4618634	30.80	ppbv	#	87
70) sec-Butylbenzene	22.981	105	6647005	31.19	ppbv	#	95
71) p-Isopropyltoluene	23.249	119	5337409	31.34	ppbv	#	88
72) 1,3-Dichlorobenzene	23.426	146	3125837	32.49	ppbv		100
73) 1,4-Dichlorobenzene	23.615	146	3264240	33.16	ppbv		100
74) Benzyl chloride	23.761	91	3937536	34.15	ppbv		99
75) n-Butylbenzene	24.054	91	4992402	32.58	ppbv		100
76) 1,2-Dichlorobenzene	24.322	146	3147362	32.86	ppbv		100
77) 1,2,4-Trichlorbenzene	27.072	180	2255892	33.54	ppbv		98
78) Hexachlorobutadiene	27.346	225	2162471	26.57	ppbv		96
79) Naphthalene	27.468	128	5561230	33.25	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231745.D
Acq On : 28 Mar 2025 3:15 am
Operator : YR
Sample : SEQ-CALF
Misc : QBTO2022225A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 28 08:57:48 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231746.D
Acq On : 28 Mar 2025 4:18 am
Operator : YR
Sample : SEQ-CALG
Misc : QBTO2022225A
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 08:57:51 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	396692	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.513	114	1238539	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1084911	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	866952	10.52	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%				
Target Compounds							Qvalue
2) Propylene	4.777	42	676002	43.72	ppbv		97
3) Dichlorodifluoromethane	4.856	85	3393899	44.62	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.131	85	3628858	46.60	ppbv		97
5) Chloromethane	5.344	50	1029126	44.04	ppbv		99
6) Vinyl Chloride	5.612	62	1124033	46.83	ppbv		100
7) 1,3-Butadiene	5.698	54	843577	46.23	ppbv		96
8) Bromomethane	6.490	94	1396011	45.75	ppbv		99
9) Chloroethane	6.667	64	648135	49.21	ppbv		96
10) Vinyl Bromide	7.124	106	1293330	46.65	ppbv		100
11) Trichlorofluoromethane	7.246	101	3700306	47.09	ppbv		100
12) Isopropanol	7.795	45	2830435	43.24	ppbv		100
13) Acrolein	7.880	56	631692	48.93	ppbv	#	56
14) Acetone	7.996	43	2169040	39.41	ppbv		95
15) Freon-113	8.130	101	3081948	47.51	ppbv		98
16) 1,1-Dichloroethylene	8.350	61	2468733	47.96	ppbv		99
17) 3-Chloropropene	8.959	41	1865616	49.08	ppbv		90
18) Methylene Chloride	9.105	49	1700947	47.91	ppbv		98
19) Acrylonitrile	9.209	53	1176363	51.00	ppbv	#	59
20) Carbon disulfide	9.234	76	4431885	48.16	ppbv		100
21) Methyl-tert-Butyl Ethe...	9.520	73	4322151	49.49	ppbv		98
22) trans-1,2-Dichloroethy...	9.715	61	2282120	49.21	ppbv		97
23) Hexane	10.002	57	2189312	48.78	ppbv		97
24) Vinyl Acetate	10.337	43	3563806	46.67	ppbv	#	99
25) 1,1-Dichloroethane	10.380	63	2670840	47.11	ppbv		93
26) 2-Butanone	11.008	43	3134161	48.60	ppbv		96
27) Ethyl Acetate	11.306	43	3745894	48.63	ppbv	#	44
28) cis-1,2-Dichloroethylene	11.379	61	2119408	42.97	ppbv		87
29) Chloroform	11.660	83	3268660	46.96	ppbv		99
30) Tetrahydrofuran	11.983	42	1752558	47.82	ppbv		96
31) 1,1,1-Trichlorethane	12.404	97	3446897	48.62	ppbv		100
32) Cyclohexane	12.568	56	2437604	48.10	ppbv		96
33) 2,2,4-Trimethylpentane	12.733	57	7187971	46.89	ppbv		97
34) Carbon Tetrachloride	12.879	117	3279389	50.20	ppbv		100
35) 1,2-Dichloroethane	12.971	62	2206585	48.44	ppbv		100
36) Benzene	13.093	78	4985398	45.08	ppbv		97
37) n-Heptane	13.111	43	2863541	46.90	ppbv	#	73
39) Trichloroethylene	14.172	95	2251156	45.15	ppbv		95
40) 1,2-Dichloropropane	14.403	63	1817805	47.06	ppbv		94
41) Methyl Methacrylate	14.428	69	1773610	48.89	ppbv	#	71
42) 1,4-Dioxane	14.739	88	1159022	49.92	ppbv	#	100
43) Bromodichloromethane	14.781	83	3652919	48.68	ppbv		99
44) Methyl Isobutyl Ketone	16.135	43	4016087	48.40	ppbv	#	55
45) cis-1,3-Dichloropropene	15.696	75	2969084	50.63	ppbv		99
46) Toluene	16.360	91	6312201	47.46	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	2685112	51.94	ppbv		99
48) 1,1,2-Trichlorethane	16.824	97	2039527	46.92	ppbv		100
49) 2-Hexanone	16.836	43	3751227	49.76	ppbv		100
50) 1,3-Dichloropropane	17.262	76	2799558	49.14	ppbv	#	72
51) Tetrachloroethylene	17.573	166	3083391	47.72	ppbv		99
52) Dibromchloromethane	17.573	129	2249529	47.71	ppbv	#	6
53) 1,2-Dibromoethane	18.153	107	3351375	50.13	ppbv		100
55) Chlorobenzene	18.963	112	4764523	45.90	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231746.D
Acq On : 28 Mar 2025 4:18 am
Operator : YR
Sample : SEQ-CALG
Misc : QBTO2022225A
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 08:57:51 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

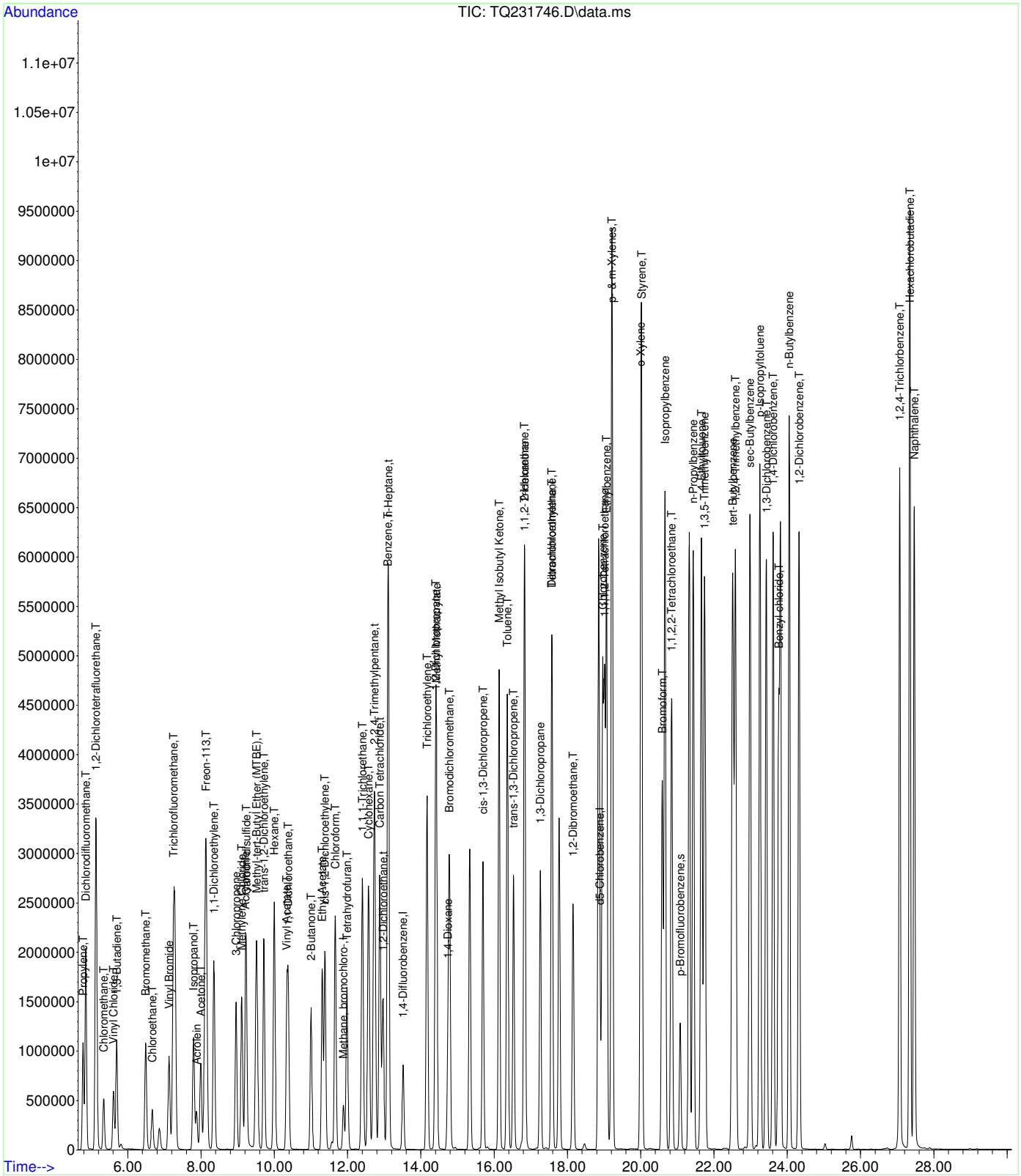
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	2529724	45.27	ppbv		92
57) Ethylbenzene	19.067	91	7868651	45.27	ppbv		99
58) p- & m-Xylenes	19.213	91	11021967	83.44	ppbv		98
59) o-Xylene	20.000	91	6119680	45.36	ppbv		99
60) Styrene	20.024	104	4673546	47.54	ppbv	#	100
61) Bromoform	20.591	173	3584157	50.99	ppbv		100
62) n-Propylbenzene	21.432	91	10319856	47.54	ppbv		99
63) Isopropylbenzene	20.664	105	8855305	47.56	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	4843779	48.67	ppbv		100
66) 4-Ethyltoluene	21.658	105	8675631	48.76	ppbv		99
67) 1,3,5-Trimethylbenzene	21.743	105	7228218	48.50	ppbv		99
68) tert-Butylbenzene	22.511	119	7680639	48.62	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.585	105	7673391	51.02	ppbv	#	87
70) sec-Butylbenzene	22.981	105	10238911	47.91	ppbv	#	95
71) p-Isopropyltoluene	23.255	119	8465044	49.56	ppbv	#	88
72) 1,3-Dichlorobenzene	23.432	146	5291307	54.85	ppbv		100
73) 1,4-Dichlorobenzene	23.615	146	5291586	53.61	ppbv		99
74) Benzyl chloride	23.767	91	6069847	52.50	ppbv		98
75) n-Butylbenzene	24.054	91	8364814	54.43	ppbv		100
76) 1,2-Dichlorobenzene	24.322	146	5130444	53.41	ppbv		100
77) 1,2,4-Trichlorbenzene	27.072	180	4057706	60.15	ppbv		99
78) Hexachlorobutadiene	27.346	225	3725958	45.65	ppbv		95
79) Naphthalene	27.468	128	9448383	56.34	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231746.D
Acq On : 28 Mar 2025 4:18 am
Operator : YR
Sample : SEQ-CALG
Misc : QBTO2022225A
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 28 08:57:51 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Laboratory ID: S5C3110-SCV1
Sequence: S5C3110
Standard ID: S25C412

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	10.0	0.0	30.00
1,1,1-Trichloroethane	10.0	10.3	3.1	30.00
1,1,2,2-Tetrachloroethane	10.0	9.40	-6.0	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.4	4.0	30.00
1,1,2-Trichloroethane	10.0	10.0	0.5	30.00
1,1-Dichloroethane	10.0	10.1	1.4	30.00
1,1-Dichloroethylene	10.0	10.1	0.9	30.00
1,2,4-Trichlorobenzene	10.0	8.59	-14.1	30.00
1,2,4-Trimethylbenzene	10.0	10.3	2.8	30.00
1,2-Dibromoethane	10.0	10.6	6.5	30.00
1,2-Dichlorobenzene	10.0	9.77	-2.3	30.00
1,2-Dichloroethane	10.0	10.0	0.2	30.00
1,2-Dichloropropane	10.0	10.5	4.6	30.00
1,2-Dichlorotetrafluoroethane	10.0	10.4	4.5	30.00
1,3,5-Trimethylbenzene	10.0	10.3	3.3	30.00
1,3-Butadiene	10.0	10.4	4.4	30.00
1,3-Dichlorobenzene	10.0	10.7	7.2	30.00
1,3-Dichloropropane	10.0	10.0	0.5	30.00
1,4-Dichlorobenzene	10.0	10.2	2.3	30.00
1,4-Dioxane	10.0	10.8	7.6	30.00
2,2,4-Trimethylpentane	10.0	10.7	7.0	30.00
2-Butanone	10.0	10.2	2.0	30.00
2-Hexanone	10.0	9.90	-1.0	30.00
3-Chloropropene	10.0	10.0	0.3	30.00
4-Methyl-2-pentanone	10.0	10.2	2.5	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Laboratory ID: S5C3110-SCV1
Sequence: S5C3110
Standard ID: S25C412

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Acetone	10.0	9.01	-9.9	30.00
Acrylonitrile	10.0	10.3	3.4	30.00
Benzene	10.0	10.1	1.0	30.00
Benzyl chloride	10.0	11.1	10.7	30.00
Bromodichloromethane	10.0	10.9	8.6	30.00
Bromoform	10.0	11.4	14.3	30.00
Bromomethane	10.0	9.73	-2.7	30.00
Carbon disulfide	10.0	10.0	0.0	30.00
Carbon tetrachloride	10.0	10.8	7.5	30.00
Chlorobenzene	10.0	9.86	-1.4	30.00
Chloroethane	10.0	10.2	2.3	30.00
Chloroform	10.0	10.5	5.2	30.00
Chloromethane	10.0	9.57	-4.3	30.00
cis-1,2-Dichloroethylene	10.0	8.90	-11.0	30.00
cis-1,3-Dichloropropylene	10.0	10.5	5.0	30.00
Cyclohexane	10.0	10.3	3.1	30.00
Dibromochloromethane	10.0	9.83	-1.7	30.00
Dichlorodifluoromethane	10.0	10.3	2.9	30.00
Ethyl acetate	10.0	9.80	-2.0	30.00
Ethyl Benzene	10.0	10.3	2.8	30.00
Hexachlorobutadiene	10.0	7.88	-21.2	30.00
Isopropanol	10.0	9.52	-4.8	30.00
Methyl Methacrylate	10.0	10.4	4.4	30.00
Methyl tert-butyl ether (MTBE)	10.0	10.6	5.9	30.00
Methylene chloride	10.0	10.2	2.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 25C1814
Client: Hydro Tech Environmental
Project: 240047 32-01 57th St Queens, NY
Calibration: SC50042
Laboratory ID: S5C3110-SCV1
Sequence: S5C3110
Standard ID: S25C412

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
Naphthalene	10.0	7.88	-21.2	30.00
n-Heptane	10.0	10.2	2.2	30.00
n-Hexane	10.0	10.2	2.4	30.00
o-Xylene	10.0	9.78	-2.2	30.00
p- & m- Xylenes	20.0	20.5	2.4	30.00
p-Ethyltoluene	10.0	10.6	6.5	30.00
Propylene	10.0	9.86	-1.4	30.00
Styrene	10.0	9.99	-0.1	30.00
Tetrachloroethylene	10.0	9.85	-1.5	30.00
Tetrahydrofuran	10.0	9.83	-1.7	30.00
Toluene	10.0	9.80	-2.0	30.00
trans-1,2-Dichloroethylene	10.0	10.1	0.7	30.00
trans-1,3-Dichloropropylene	10.0	11.0	9.7	30.00
Trichloroethylene	10.0	10.1	0.6	30.00
Trichlorofluoromethane (Freon 11)	10.0	10.5	4.7	30.00
Vinyl acetate	10.0	9.95	-0.5	30.00
Vinyl bromide	10.0	10.8	7.8	30.00
Vinyl Chloride	10.0	10.3	3.4	30.00

* Values outside of QC limits

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231751.D
Acq On : 28 Mar 2025 8:37 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO2022225A
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 28 09:07:55 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	406966	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1260213	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.890	117	1099814	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.073	95	893643	10.69	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.90%				
Target Compounds							Qvalue
2) Propylene	4.783	42	156466	9.86	ppbv		98
3) Dichlorodifluoromethane	4.856	85	802700	10.29	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.137	85	834592	10.45	ppbv		96
5) Chloromethane	5.344	50	229376	9.57	ppbv		99
6) Vinyl Chloride	5.606	62	254722	10.34	ppbv		99
7) 1,3-Butadiene	5.691	54	195347	10.44	ppbv		96
8) Bromomethane	6.484	94	304541	9.73	ppbv		99
9) Chloroethane	6.661	64	138194	10.23	ppbv		95
10) Vinyl Bromide	7.124	106	306602	10.78	ppbv		100
11) Trichlorofluoromethane	7.246	101	843884	10.47	ppbv		100
12) Isopropanol	7.789	45	639524	9.52	ppbv		100
13) Acrolein	7.886	56	138708	10.47	ppbv	#	56
14) Acetone	7.990	43	508814	9.01	ppbv		96
15) Freon-113	8.130	101	692217	10.40	ppbv		99
16) 1,1-Dichloroethylene	8.349	61	533023	10.09	ppbv		99
17) 3-Chloropropene	8.953	41	391175	10.03	ppbv		90
18) Methylene Chloride	9.105	49	371436	10.20	ppbv		98
19) Acrylonitrile	9.215	53	244599	10.34	ppbv	#	59
20) Carbon disulfide	9.227	76	943853	10.00	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.514	73	948703	10.59	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	479269	10.07	ppbv		97
23) Hexane	9.995	57	471384	10.24	ppbv		97
24) Vinyl Acetate	10.337	43	779568	9.95	ppbv	#	99
25) 1,1-Dichloroethane	10.380	63	589874	10.14	ppbv		92
26) 2-Butanone	10.995	43	675058	10.20	ppbv		97
27) Ethyl Acetate	11.300	43	774186	9.80	ppbv	#	42
28) cis-1,2-Dichloroethylene	11.379	61	450128	8.90	ppbv		90
29) Chloroform	11.654	83	751027	10.52	ppbv		100
30) Tetrahydrofuran	11.977	42	369680	9.83	ppbv		96
31) 1,1,1-Trichlorethane	12.404	97	749824	10.31	ppbv		100
32) Cyclohexane	12.568	56	536279	10.31	ppbv		96
33) 2,2,4-Trimethylpentane	12.727	57	1683106	10.70	ppbv		97
34) Carbon Tetrachloride	12.879	117	720398	10.75	ppbv		100
35) 1,2-Dichloroethane	12.964	62	468067	10.02	ppbv		100
36) Benzene	13.092	78	1146430	10.10	ppbv		96
37) n-Heptane	13.105	43	640047	10.22	ppbv	#	97
39) Trichloroethylene	14.165	95	510434	10.06	ppbv		95
40) 1,2-Dichloropropane	14.403	63	410992	10.46	ppbv		96
41) Methyl Methacrylate	14.421	69	385478	10.44	ppbv	#	41
42) 1,4-Dioxane	14.732	88	254214	10.76	ppbv	#	100
43) Bromodichloromethane	14.775	83	829478	10.86	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	865000	10.25	ppbv	#	55
45) cis-1,3-Dichloropropene	15.689	75	626786	10.50	ppbv		99
46) Toluene	16.354	91	1325821	9.80	ppbv		98
47) trans-1,3-Dichloropropene	16.525	75	576932	10.97	ppbv		99
48) 1,1,2-Trichlorethane	16.823	97	444557	10.05	ppbv		100
49) 2-Hexanone	16.829	43	759440	9.90	ppbv		99
50) 1,3-Dichloropropane	17.256	76	582451	10.05	ppbv	#	72
51) Tetrachloroethylene	17.573	166	647599	9.85	ppbv		99
52) Dibromchloromethane	17.573	129	471731	9.83	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	724759	10.65	ppbv		99
55) Chlorobenzene	18.957	112	1037674	9.86	ppbv	#	100

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231751.D
Acq On : 28 Mar 2025 8:37 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO2022225A
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 28 09:07:55 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

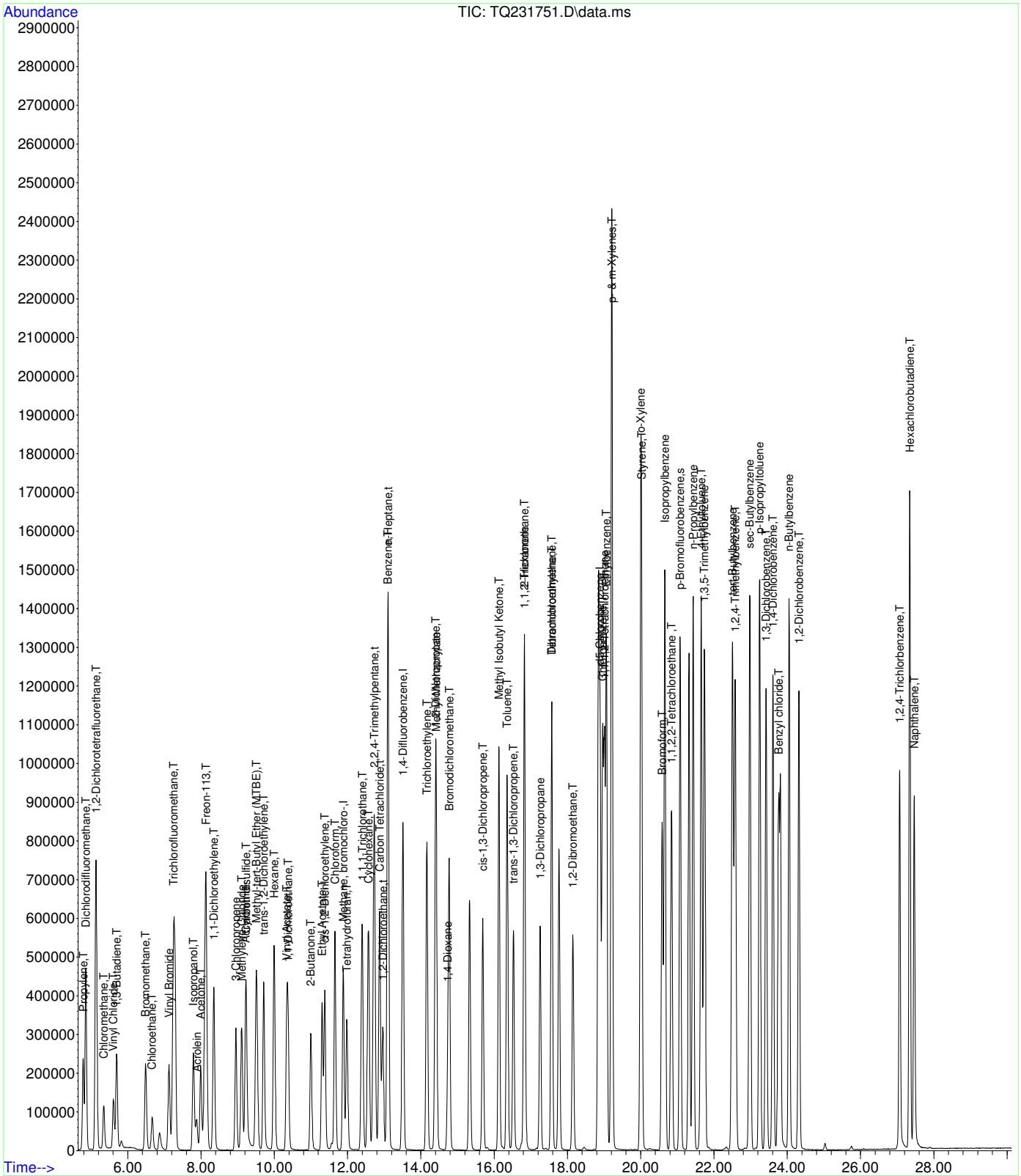
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1,1,1,2-Tetrachloroethane	19.012	131	566190	10.00	ppbv		93
57) Ethylbenzene	19.061	91	1810552	10.28	ppbv		99
58) p- & m-Xylenes	19.213	91	2743090	20.49	ppbv		98
59) o-Xylene	20.000	91	1338074	9.78	ppbv		99
60) Styrene	20.024	104	995376	9.99	ppbv	#	100
61) Bromoform	20.585	173	814559	11.43	ppbv		99
62) n-Propylbenzene	21.432	91	2299679	10.45	ppbv		99
63) Isopropylbenzene	20.658	105	1949596	10.33	ppbv		98
64) 1,1,2,2-Tetrachloroeth...	20.841	83	948442	9.40	ppbv		100
66) 4-Ethyltoluene	21.652	105	1921206	10.65	ppbv		100
67) 1,3,5-Trimethylbenzene	21.737	105	1560608	10.33	ppbv		99
68) tert-Butylbenzene	22.505	119	1627869	10.17	ppbv	#	77
69) 1,2,4-Trimethylbenzene	22.578	105	1566886	10.28	ppbv	#	94
70) sec-Butylbenzene	22.975	105	2180976	10.07	ppbv	#	95
71) p-Isopropyltoluene	23.243	119	1781477	10.29	ppbv	#	88
72) 1,3-Dichlorobenzene	23.420	146	1048102	10.72	ppbv		99
73) 1,4-Dichlorobenzene	23.609	146	1023804	10.23	ppbv		99
74) Benzyl chloride	23.761	91	1297797	11.07	ppbv		98
75) n-Butylbenzene	24.048	91	1555863	9.99	ppbv		99
76) 1,2-Dichlorobenzene	24.316	146	951451	9.77	ppbv		99
77) 1,2,4-Trichlorbenzene	27.071	180	587116	8.59	ppbv		99
78) Hexachlorobutadiene	27.346	225	652018	7.88	ppbv		96
79) Naphthalene	27.468	128	1339264	7.88	ppbv		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\032725-ICAL\
Data File : TQ231751.D
Acq On : 28 Mar 2025 8:37 am
Operator : YR
Sample : SEQ-SCV1
Misc : QBTO2022225A
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 28 09:07:55 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
1,1,1,2-Tetrachloroethane	A	10.0	8.95	0.5149838	0.461014		-10.5	30	
1,1,1-Trichloroethane	A	10.0	9.49	1.786816	1.696627		-5.0	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.31	0.9173197	0.8537233		-6.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.98	1.63458	1.631948		-0.2	30	
1,1,2-Trichloroethane	A	10.0	9.39	0.3509358	0.3296615		-6.1	30	
1,1-Dichloroethane	A	10.0	9.67	1.428878	1.382215		-3.3	30	
1,1-Dichloroethylene	A	10.0	10.1	1.297637	1.307179		0.7	30	
1,2,4-Trichlorobenzene	A	10.0	9.24	0.621838	0.5746277		-7.6	30	
1,2,4-Trimethylbenzene	A	10.0	9.30	1.386089	1.288781		-7.0	30	
1,2-Dibromoethane	A	10.0	10.2	0.5397686	0.5482875		1.6	30	
1,2-Dichlorobenzene	A	10.0	9.56	0.8853911	0.8460456		-4.4	30	
1,2-Dichloroethane	A	10.0	9.30	1.147912	1.068199		-6.9	30	
1,2-Dichloropropane	A	10.0	9.40	0.3118304	0.2931187		-6.0	30	
1,2-Dichlorotetrafluoroethane	A	10.0	10.6	1.962638	2.074681		5.7	30	
1,3,5-Trimethylbenzene	A	10.0	9.47	1.37337	1.301278		-5.2	30	
1,3-Butadiene	A	10.0	9.36	0.4598385	0.4303598		-6.4	30	
1,3-Dichlorobenzene	A	10.0	9.88	0.8892767	0.8785155		-1.2	30	
1,3-Dichloropropane	A	10.0	9.11	0.4598857	0.4188558		-8.9	30	
1,4-Dichlorobenzene	A	10.0	9.76	0.9097573	0.8882008		-2.4	30	
1,4-Dioxane	A	10.0	9.50	0.1874181	0.1781561		-4.9	30	
2,2,4-Trimethylpentane	A	10.0	8.93	3.863553	3.451624		-10.7	30	
2-Butanone	A	10.0	9.75	1.625399	1.584876		-2.5	30	
2-Hexanone	A	10.0	9.36	0.6086018	0.569857		-6.4	30	
3-Chloropropene	A	10.0	8.23	0.9580096	0.7888436		-17.7	30	
4-Methyl-2-pentanone	A	10.0	9.33	0.6698743	0.6247986		-6.7	30	
Acetone	A	10.0	8.07	1.387287	1.11911		-19.3	30	
Acrylonitrile	A	10.0	9.51	0.5813337	0.5528503		-4.9	30	
Benzene	A	10.0	9.31	2.786953	2.59654		-6.8	30	
Benzyl chloride	A	10.0	9.59	1.065557	1.021926		-4.1	30	
Bromodichloromethane	A	10.0	8.97	0.605758	0.543714		-10.2	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Bromoform	A	10.0	9.89	0.6477512	0.6406892		-1.1	30	
Bromomethane	A	10.0	9.22	0.768971	0.7090195		-7.8	30	
Carbon disulfide	A	10.0	9.68	2.318697	2.24571		-3.1	30	
Carbon tetrachloride	A	10.0	7.74	1.647024	1.274809		-22.6	30	
Chlorobenzene	A	10.0	9.54	0.9567194	0.9130415		-4.6	30	
Chloroethane	A	10.0	8.98	0.3319307	0.2979907		-10.2	30	
Chloroform	A	10.0	10.1	1.754143	1.768608		0.8	30	
Chloromethane	A	10.0	9.07	0.5889332	0.5339593		-9.3	30	
cis-1,2-Dichloroethylene	A	10.0	9.27	1.243282	1.152916		-7.3	30	
cis-1,3-Dichloropropylene	A	10.0	8.88	0.4735583	0.4207061		-11.2	30	
Cyclohexane	A	10.0	9.22	1.277157	1.177997		-7.8	30	
Dibromochloromethane	A	10.0	9.47	0.3806586	0.3606731		-5.3	30	
Dichlorodifluoromethane	A	10.0	10.1	1.916998	1.944347		1.4	30	
Ethyl acetate	A	10.0	9.45	1.941329	1.835297		-5.5	30	
Ethyl Benzene	A	10.0	9.74	1.601814	1.560324		-2.6	30	
Hexachlorobutadiene	A	10.0	8.58	0.7522773	0.6453249		-14.2	30	
Isopropanol	A	10.0	8.32	1.649423	1.372523		-16.8	30	
Methyl Methacrylate	A	10.0	9.38	0.2927754	0.274834		-6.1	30	
Methyl tert-butyl ether (MTBE)	A	10.0	9.51	2.2009	2.093627		-4.9	30	
Methylene chloride	A	10.0	9.71	0.8944791	0.8692865		-2.8	30	
Naphthalene	A	10.0	8.66	1.545268	1.339206		-13.3	30	
n-Heptane	A	10.0	9.14	1.53862	1.405955		-8.6	30	
n-Hexane	A	10.0	9.04	1.131148	1.023258		-9.5	30	
o-Xylene	A	10.0	9.61	1.243391	1.195465		-3.9	30	
p- & m- Xylenes	A	20.0	18.7	1.217691	1.13731		-6.6	30	
p-Ethyltoluene	A	10.0	10.4	1.639736	1.702258		3.8	30	
Propylene	A	10.0	9.12	0.3899389	0.3554998		-8.8	30	
Styrene	A	10.0	9.95	0.9061753	0.9021189		-0.4	30	
Tetrachloroethylene	A	10.0	9.42	0.5216672	0.4916688		-5.8	30	
Tetrahydrofuran	A	10.0	9.53	0.9232628	0.8800342		-4.7	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	25C1814
Client:	Hydro Tech Environmental	Project:	240047 32-01 57th St Queens, NY
Instrument ID:	TO15_AIR2	Calibration:	SC50042
Lab File ID:	TQ232095.D	Calibration Date:	03/27/25 13:47
Sequence:	S5D1718	Injection Date:	04/17/25
Lab Sample ID:	S5D1718-CCV1	Injection Time:	08:32

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	Q
Toluene	A	10.0	9.33	1.073595	1.001927		-6.7	30	
trans-1,2-Dichloroethylene	A	10.0	9.63	1.168221	1.125799		-3.6	30	
trans-1,3-Dichloropropylene	A	10.0	8.68	0.4173443	0.3623288		-13.2	30	
Trichloroethylene	A	10.0	9.40	0.402485	0.3783602		-6.0	30	
Trichlorofluoromethane (Freon 11)	A	10.0	10.4	1.980303	2.065245		4.3	30	
Vinyl acetate	A	10.0	6.21	1.924486	1.195431		-37.9	30 *	
Vinyl bromide	A	10.0	10.2	0.6984373	0.7108896		1.8	30	
Vinyl Chloride	A	10.0	9.26	0.6050697	0.5603748		-7.4	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
Acq On : 17 Apr 2025 8:32 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO2040525A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 09:06:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	363612	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1166275	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1010195	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	794010	10.34	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.40%				
Target Compounds							Qvalue
2) Propylene	4.771	42	129264	9.12	ppbv		97
3) Dichlorodifluoromethane	4.850	85	706988	10.14	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.124	85	754379	10.57	ppbv		95
5) Chloromethane	5.332	50	194154	9.07	ppbv		99
6) Vinyl Chloride	5.600	62	203759	9.26	ppbv		99
7) 1,3-Butadiene	5.685	54	156484	9.36	ppbv		96
8) Bromomethane	6.484	94	257808	9.22	ppbv		100
9) Chloroethane	6.661	64	108353	8.98	ppbv		93
10) Vinyl Bromide	7.118	106	258488	10.17	ppbv		100
11) Trichlorofluoromethane	7.234	101	750948	10.43	ppbv		100
12) Isopropanol	7.782	45	499066	8.32	ppbv		100
13) Acrolein	7.880	56	107317	9.07	ppbv	#	56
14) Acetone	7.996	43	406922	8.07	ppbv		94
15) Freon-113	8.124	101	593396	9.98	ppbv		100
16) 1,1-Dichloroethylene	8.349	61	475306	10.07	ppbv		99
17) 3-Chloropropene	8.953	41	286833	8.23	ppbv		91
18) Methylene Chloride	9.105	49	316083	9.71	ppbv		98
19) Acrylonitrile	9.215	53	201023	9.51	ppbv	#	59
20) Carbon disulfide	9.221	76	816567	9.68	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.514	73	761268	9.51	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	409354	9.63	ppbv		98
23) Hexane	9.995	57	372069	9.04	ppbv		97
24) Vinyl Acetate	10.337	43	434673	6.21	ppbv	#	98
25) 1,1-Dichloroethane	10.373	63	502590	9.67	ppbv	#	64
26) 2-Butanone	10.995	43	576280	9.75	ppbv		97
27) Ethyl Acetate	11.306	43	667336	9.45	ppbv	#	44
28) cis-1,2-Dichloroethylene	11.379	61	419214	9.27	ppbv		90
29) Chloroform	11.660	83	643087	10.08	ppbv		99
30) Tetrahydrofuran	11.989	42	319991	9.53	ppbv		96
31) 1,1,1-Trichlorethane	12.404	97	616914	9.49	ppbv		100
32) Cyclohexane	12.568	56	428334	9.22	ppbv		97
33) 2,2,4-Trimethylpentane	12.733	57	1255052	8.93	ppbv		98
34) Carbon Tetrachloride	12.879	117	463536	7.74	ppbv		100
35) 1,2-Dichloroethane	12.964	62	388410	9.30	ppbv		100
36) Benzene	13.099	78	944133	9.31	ppbv		94
37) n-Heptane	13.111	43	511222	9.14	ppbv	#	97
39) Trichloroethylene	14.165	95	441272	9.40	ppbv		97
40) 1,2-Dichloropropane	14.403	63	341857	9.40	ppbv		96
41) Methyl Methacrylate	14.421	69	320532	9.38	ppbv	#	70
42) 1,4-Dioxane	14.732	88	207779	9.50	ppbv	#	100
43) Bromodichloromethane	14.775	83	634120	8.97	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	728687	9.33	ppbv	#	55
45) cis-1,3-Dichloropropene	15.689	75	490659	8.88	ppbv		99
46) Toluene	16.354	91	1168522	9.33	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	422575	8.68	ppbv		99
48) 1,1,2-Trichlorethane	16.817	97	384476	9.39	ppbv		99
49) 2-Hexanone	16.829	43	664610	9.36	ppbv		99
50) 1,3-Dichloropropane	17.256	76	488501	9.11	ppbv	#	72
51) Tetrachloroethylene	17.567	166	573421	9.42	ppbv		99
52) Dibromchloromethane	17.567	129	420644	9.47	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	639454	10.16	ppbv		100
55) Chlorobenzene	18.951	112	922350	9.54	ppbv	#	100

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
Acq On : 17 Apr 2025 8:32 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO2040525A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 09:06:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

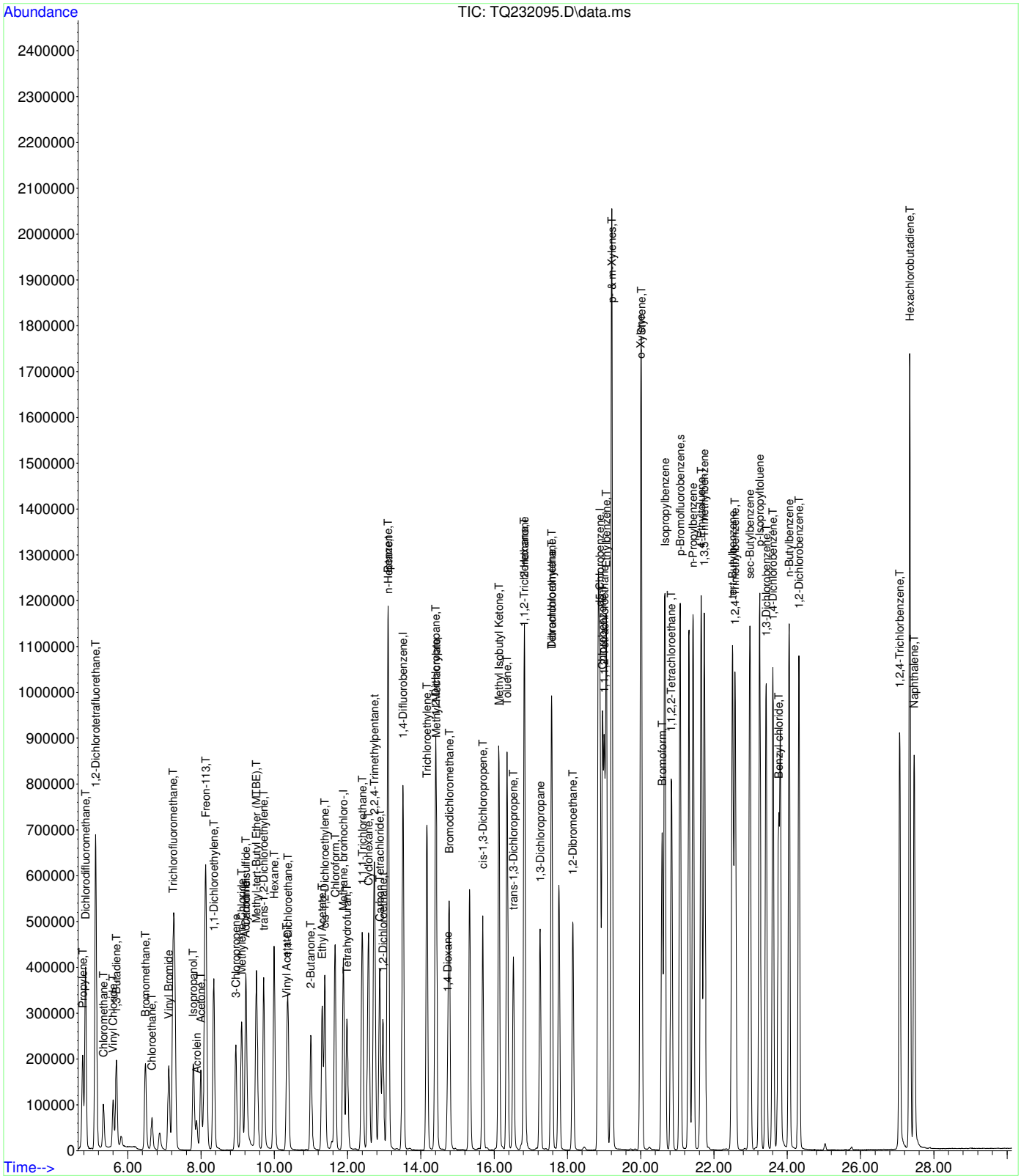
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56)	1,1,1,2-Tetrachloroethane	19.006	131	465714	8.95	ppbv		94
57)	Ethylbenzene	19.061	91	1576232	9.74	ppbv		99
58)	p- & m-Xylenes	19.213	91	2297810	18.68	ppbv		98
59)	o-Xylene	20.000	91	1207653	9.61	ppbv		99
60)	Styrene	20.018	104	911316	9.95	ppbv	#	100
61)	Bromoform	20.585	173	647221	9.89	ppbv		99
62)	n-Propylbenzene	21.426	91	2001302	9.90	ppbv		99
63)	Isopropylbenzene	20.664	105	1675271	9.66	ppbv		98
64)	1,1,2,2-Tetrachloroeth...	20.835	83	862427	9.31	ppbv		100
66)	4-Ethyltoluene	21.652	105	1719613	10.38	ppbv		98
67)	1,3,5-Trimethylbenzene	21.737	105	1314545	9.47	ppbv		98
68)	tert-Butylbenzene	22.505	119	1325130	9.01	ppbv	#	83
69)	1,2,4-Trimethylbenzene	22.572	105	1301920	9.30	ppbv	#	88
70)	sec-Butylbenzene	22.981	105	1838863	9.24	ppbv	#	96
71)	p-Isopropyltoluene	23.249	119	1462705	9.20	ppbv	#	88
72)	1,3-Dichlorobenzene	23.426	146	887472	9.88	ppbv		99
73)	1,4-Dichlorobenzene	23.609	146	897256	9.76	ppbv		99
74)	Benzyl chloride	23.761	91	1032345	9.59	ppbv		99
75)	n-Butylbenzene	24.054	91	1317503	9.21	ppbv		99
76)	1,2-Dichlorobenzene	24.316	146	854671	9.56	ppbv		99
77)	1,2,4-Trichlorbenzene	27.071	180	580486	9.24	ppbv		98
78)	Hexachlorobutadiene	27.346	225	651904	8.58	ppbv		96
79)	Naphthalene	27.462	128	1352859	8.66	ppbv		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
Acq On : 17 Apr 2025 8:32 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO2040525A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 09:06:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
Acq On : 17 Apr 2025 8:32 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO2040525A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 09:06:38 2025
Quant Method : C:\msdchem\1\methods\AIR-2-0090_032825.M
Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Methane, bromochloro-	11.885	49	363612	10.00	ppbv		0.00
38) 1,4-Difluorobenzene	13.507	114	1166275	10.00	ppbv		0.00
54) d5-Chlorobenzene	18.884	117	1010195	10.00	ppbv		0.00
System Monitoring Compounds							
65) p-Bromofluorobenzene	21.079	95	794010	10.34	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.40%				
Target Compounds							Qvalue
2) Propylene	4.771	42	129264	9.12	ppbv		97
3) Dichlorodifluoromethane	4.850	85	706988	10.14	ppbv		99
4) 1,2-Dichlorotetrafluor...	5.124	85	754379	10.57	ppbv		95
5) Chloromethane	5.332	50	194154	9.07	ppbv		99
6) Vinyl Chloride	5.600	62	203759	9.26	ppbv		99
7) 1,3-Butadiene	5.685	54	156484	9.36	ppbv		96
8) Bromomethane	6.484	94	257808	9.22	ppbv		100
9) Chloroethane	6.661	64	108353	8.98	ppbv		93
10) Vinyl Bromide	7.118	106	258488	10.17	ppbv		100
11) Trichlorofluoromethane	7.234	101	750948	10.43	ppbv		100
12) Isopropanol	7.782	45	499066	8.32	ppbv		100
13) Acrolein	7.880	56	107317	9.07	ppbv	#	56
14) Acetone	7.996	43	406922	8.07	ppbv		94
15) Freon-113	8.124	101	593396	9.98	ppbv		100
16) 1,1-Dichloroethylene	8.349	61	475306	10.07	ppbv		99
17) 3-Chloropropene	8.953	41	286833	8.23	ppbv		91
18) Methylene Chloride	9.105	49	316083	9.71	ppbv		98
19) Acrylonitrile	9.215	53	201023	9.51	ppbv	#	59
20) Carbon disulfide	9.221	76	816567	9.68	ppbv		99
21) Methyl-tert-Butyl Ethe...	9.514	73	761268	9.51	ppbv		98
22) trans-1,2-Dichloroethy...	9.709	61	409354	9.63	ppbv		98
23) Hexane	9.995	57	372069	9.04	ppbv		97
24) Vinyl Acetate	10.337	43	434673	6.21	ppbv	#	98
25) 1,1-Dichloroethane	10.373	63	502590	9.67	ppbv	#	64
26) 2-Butanone	10.995	43	576280	9.75	ppbv		97
27) Ethyl Acetate	11.306	43	667336	9.45	ppbv	#	44
28) cis-1,2-Dichloroethylene	11.379	61	419214	9.27	ppbv		90
29) Chloroform	11.660	83	643087	10.08	ppbv		99
30) Tetrahydrofuran	11.989	42	319991	9.53	ppbv		96
31) 1,1,1-Trichlorethane	12.404	97	616914	9.49	ppbv		100
32) Cyclohexane	12.568	56	428334	9.22	ppbv		97
33) 2,2,4-Trimethylpentane	12.733	57	1255052	8.93	ppbv		98
34) Carbon Tetrachloride	12.879	117	463536	7.74	ppbv		100
35) 1,2-Dichloroethane	12.964	62	388410	9.30	ppbv		100
36) Benzene	13.099	78	944133	9.31	ppbv		94
37) n-Heptane	13.111	43	511222	9.14	ppbv	#	97
39) Trichloroethylene	14.165	95	441272	9.40	ppbv		97
40) 1,2-Dichloropropane	14.403	63	341857	9.40	ppbv		96
41) Methyl Methacrylate	14.421	69	320532	9.38	ppbv	#	70
42) 1,4-Dioxane	14.732	88	207779	9.50	ppbv	#	100
43) Bromodichloromethane	14.775	83	634120	8.97	ppbv		99
44) Methyl Isobutyl Ketone	16.128	43	728687	9.33	ppbv	#	55
45) cis-1,3-Dichloropropene	15.689	75	490659	8.88	ppbv		99
46) Toluene	16.354	91	1168522	9.33	ppbv		99
47) trans-1,3-Dichloropropene	16.525	75	422575	8.68	ppbv		99
48) 1,1,2-Trichlorethane	16.817	97	384476	9.39	ppbv		99
49) 2-Hexanone	16.829	43	664610	9.36	ppbv		99
50) 1,3-Dichloropropane	17.256	76	488501	9.11	ppbv	#	72
51) Tetrachloroethylene	17.567	166	573421	9.42	ppbv		99
52) Dibromchloromethane	17.567	129	420644	9.47	ppbv	#	6
53) 1,2-Dibromoethane	18.146	107	639454	10.16	ppbv		100
55) Chlorobenzene	18.951	112	922350	9.54	ppbv	#	100

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
Acq On : 17 Apr 2025 8:32 am
Operator : YR
Sample : SEQ-CCV1
Misc : QBTO2040525A
ALS Vial : 2 Sample Multiplier: 1

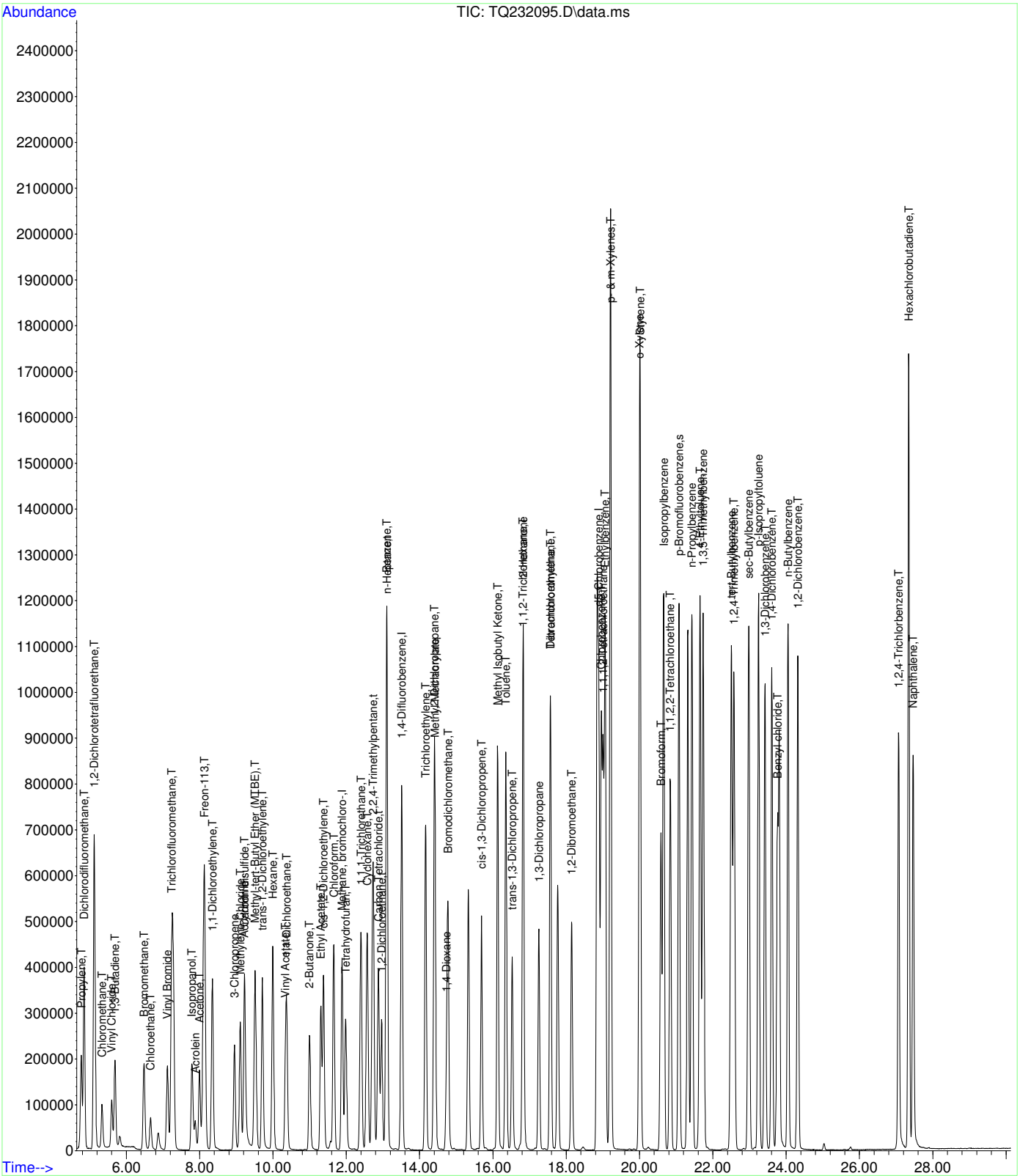
Quant Time: Apr 17 09:06:38 2025
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Quant Title : TO15 VOC Analysis
QLast Update : Fri Mar 28 08:10:20 2025
Response via : Initial Calibration
InstName : TO15_AIR2

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56)	1,1,1,2-Tetrachloroethane	19.006	131	465714	8.95	ppbv		94
57)	Ethylbenzene	19.061	91	1576232	9.74	ppbv		99
58)	p- & m-Xylenes	19.213	91	2297810	18.68	ppbv		98
59)	o-Xylene	20.000	91	1207653	9.61	ppbv		99
60)	Styrene	20.018	104	911316	9.95	ppbv	#	100
61)	Bromoform	20.585	173	647221	9.89	ppbv		99
62)	n-Propylbenzene	21.426	91	2001302	9.90	ppbv		99
63)	Isopropylbenzene	20.664	105	1675271	9.66	ppbv		98
64)	1,1,2,2-Tetrachloroeth...	20.835	83	862427	9.31	ppbv		100
66)	4-Ethyltoluene	21.652	105	1719613	10.38	ppbv		98
67)	1,3,5-Trimethylbenzene	21.737	105	1314545	9.47	ppbv		98
68)	tert-Butylbenzene	22.505	119	1325130	9.01	ppbv	#	83
69)	1,2,4-Trimethylbenzene	22.572	105	1301920	9.30	ppbv	#	88
70)	sec-Butylbenzene	22.981	105	1838863	9.24	ppbv	#	96
71)	p-Isopropyltoluene	23.249	119	1462705	9.20	ppbv	#	88
72)	1,3-Dichlorobenzene	23.426	146	887472	9.88	ppbv		99
73)	1,4-Dichlorobenzene	23.609	146	897256	9.76	ppbv		99
74)	Benzyl chloride	23.761	91	1032345	9.59	ppbv		99
75)	n-Butylbenzene	24.054	91	1317503	9.21	ppbv		99
76)	1,2-Dichlorobenzene	24.316	146	854671	9.56	ppbv		99
77)	1,2,4-Trichlorbenzene	27.071	180	580486	9.24	ppbv		98
78)	Hexachlorobutadiene	27.346	225	651904	8.58	ppbv		96
79)	Naphthalene	27.462	128	1352859	8.66	ppbv		100

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

Data Path : C:\msdchem\1\data\041725\
Data File : TQ232095.D
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Operator : YR
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BENCHSHEETS

SDG: 25C1814

CLASS: AIR

METHOD: EPA TO-15

PREPARATION BENCH SHEET : BD51311

Preparation Date: 04/17/2025 07:45

York Analytical Laboratories, Inc. - Stratford

Matrix: Air

Samples And QC:

Lab Number	Analysis	Canister Vacuum (in. Hg) upon receipt	Final Canister Press. (psig) Analysis	Q	Spike	Source ID	Comments
25C1814-01 A	Volatile Organics, EPA TO15 Full List	-6.71	+4.56				
25C1814-02 A	Volatile Organics, EPA TO15 Full List	-6.81	+3.44				
25C1814-03 A	Volatile Organics, EPA TO15 Full List	-7.60	+7.61				
BD51311-BLK1	Volatile Organics, EPA TO15 Full List						
BD51311-BS1	Volatile Organics, EPA TO15 Full List				S25C412		

Spike

Standard/Reagent ID	Description	LotNum	Volume
S25C412	TO15 AIR LCS/ICV @ 10 ppbv STATIC with ISO	032725_Can#50987	400

Surrogate

Standard/Reagent ID	Description	LotNum	Volume
S24I167	TO15 AIR SURR @10 PPBV STATIC	117484684_1594624_FF-4922	100

Preparations Performed by Yamilex Ramos **Date:** **09/16/2024 16:34**

APPENDIX 11

NYSDEC CORRESPONDENCES

Date: Tue, 12 Sep 2017 20:48:18 +0000
From: Dorina Aliu <daliu@haks.net>
To: "'Munteanu-Ramnic, Ioana (DEC)'" <ioana.munteanu-ramnic@dec.ny.gov>
Cc: Tarek Khouri <tkhouri@haks.net>, "'ttopjor@tcnynj.org'"
<ttopjor@tcnynj.org>
Subject: 241197 - TCNYNJ - Re SVE Installation and Trenching Activities

---

Dear Ioana,

As per our discussion over the phone, the SVE pit installation involved digging a 2' wide by 1' deep trench along the parking lot of the Tibetan Community Center (parallel to the adjacent property). The same material that was excavated when digging the trench was then used to backfill the hole once we had installed the horizontal pipe run inside the trench. Therefore, no material was shipped offsite or imported to the site in relation to the SVE installation.

The onsite material that we used for backfill was previously waste characterized prior to us starting the parking lot and dry well excavation. I have re-attached the data for reference. This material meets NY Residential and NY Restricted Residential regulations.

Please let me know if you need any additional information.

Thank you,
Dorina

Dorina Aliu
Environmental Engineer

HAKS
Client Focused - Quality Services

40 Wall Street, 9th Floor
New York, NY 10005
Tel: (212) 747-1997 Ext 518
Cell: (917) 654-1822

daliu@haks.net
www.haks.net

P Before printing this e-mail please consider if it is necessary to do so: The environment concerns us all. The information contained in this transmission may contain privileged and confidential information. It is intended only for the use of the person(s) named above. If you are not the intended recipient, you are hereby notified that any review, dissemination, distribution or duplication of this communication is strictly prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message.

Attachment: GBY50161-ExcelComparison.xlsx [application/vnd.openxmlformats-officedocument.spreadsheetml.sheet]
Attachment: 00083bd9.pdf [application/pdf]

NEW YORK STATE OF OPPORTUNITY. Department of Health

KATHY HOCHUL
Governor

MARY T. BASSETT, M.D., M.P.H.
Commissioner

KRISTIN M. PROUD
Acting Executive Deputy Commissioner

April 7, 2022

Mandy Yau
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
47-40 21st Street
Long Island City, NY 11101

Re: **Construction Completion Report**
Tibetan Community Center
32-01 57th Street
Site # 241197
Queens, New York

Dear Mandy Yau,

I reviewed the March 2019 *Construction Completion Report (CCR)* for the referenced site. It is my understanding that the CCR will be acting as the Final Engineering Report for the site. Based on my review, I offer the following comments:

1. The date on the cover page and throughout the document should be revised

2. Please update the certification page with the required information.

3. Section 1: Please include information about the specific Soil Cleanup Objectives achieved at the site. Also, replace FER with CCR throughout the document for consistency.

4. Section 2.2: Please include the Addendum to the IRM as an appendix in the final document.

5. Section 4.1.3: In the first paragraph, after fugitive dust, please include 'volatile organic compounds'.

6. Section 4.2.3.7: Please include the last paragraph from Section 4.1.2 in this section.

7. Section 4.3: The statement made in this section is not accurate. Please revise this section to reflect the excavation that was performed.

8. Details about the operation of the SSDS in the on-site building and whether pressure field testing was conducted to determine if adequate depressurization is being achieved across the entire slab as designed should be provided. This can include a figure showing pressure field monitoring points and negative pressure data. Also, include an as-built drawing of the final SSDS signed by a professional engineer as an appendix.

9. Please include a discussion in the CCR regarding an upcoming soil vapor intrusion evaluation. The text should state that indoor air will be sampled during the 2022-2023 heating season to verify that soil vapor intrusion is not impacting the indoor air of the on-site building. This statement should be included in the Site Management Plan as well.

10. Section 4.4: Revise this section to include information about the imported backfill, as this statement is contradictory to the excavation and backfilling activities that have occurred. As per the NYSDOH IRMWP concurrence letter, dated September 12, 2017, excavated soil needs to be replaced with backfill that meets the requirements of 6NYCRR Part 375 for restricted residential use soil cleanup objectives.

11. Section 4.8: Update and revise this section to include the missing information. A signed 'Environmental Easement' should be included as an appendix in the final document.

12. Please include the appendices, tables, and figures in the final document.

13. A data usability summary report should be included in the final document.

14. Please include a Qualitative Exposure Assessment indicating the soil cleanup objectives achieved at the site and the potential for exposure if the remaining contamination at the site is disturbed. Please revise the table of contents accordingly.

Additional comments may be forthcoming after receipt and review of the revised CCR, Appendices, Figures and Tables. If you have any questions, please contact me at (518) 402-7817.

Sincerely,



Sarita Wagh
Public Health Specialist
Bureau of Environmental Exposure Investigation

ec: S. McLaughlin / e-file
E. Wiegert – NYSDOH MARO
M. Little- NYCDOHMH
G. Burke - NYSDEC Central Office
J. O'Connell- NYSDEC Region 2

Paul Matli

From: Salazar, Marlen C (DEC) <Marlen.Salazar@dec.ny.gov>
Sent: Wednesday, January 29, 2025 10:50 AM
To: Paul Matli; Tarek Khouri
Cc: O'Connell, Jane H (DEC); Maycock, Cris-Sandra (DEC)
Subject: Tibetan Community Center (241197) - Following Up on Missing Cat. B Deliverables and DUSR

Hi Paul and Tarek,

I heard back from DOH about what to do regarding the missing indoor air data from the lab. They'd like for you to perform another round of indoor air sampling (with the SVE running) including ambient air and sub-slab samples along with category B deliverables and DUSR to be incorporated into the CCR to show that the system is performing as intended. This sampling will need to be performed prior to approval of the CCR.

Please let me know if you have any questions.

Best,
Marlen

Marlen Salazar *(she/hers)*
Assistant Engineer

New York State Department of Environmental Conservation
Division of Environmental Remediation | Section A, Region 2
47-40 21st Street, Long Island City, New York 11101
(718) 482-7129 | marlen.salazar@dec.ny.gov
dec.ny.gov | @NYSDEC on Social Media | Podcast

APPENDIX 12

FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS

Appendix 3C Fish and Wildlife Resources Impact Analysis Decision Key	If YES Go to:	If NO Go to:
1. Is the site or area of concern a discharge or spill event?	13	2
2. Is the site or area of concern a point source of contamination to the groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas.	13	3
3. Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	4	9
4. Does the site contain habitat of an endangered, threatened or special concern species?	Section 3.10.1	5
5. Has the contamination gone off-site?	6	14
6. Is there any discharge or erosion of contamination to surface water or the potential for discharge or erosion of contamination?	7	14
7. Are the site contaminants PCBs, pesticides or other persistent, bioaccumulable substances?	Section 3.10.1	8
8. Does contamination exist at concentrations that could exceed ecological impact SCGs or be toxic to aquatic life if discharged to surface water?	Section 3.10.1	14
9. Does the site or any adjacent or downgradient property contain any of the following resources? i. Any endangered, threatened or special concern species or rare plants or their habitat ii. Any DEC designated significant habitats or rare NYS Ecological Communities iii. Tidal or freshwater wetlands iv. Stream, creek or river v. Pond, lake, lagoon vi. Drainage ditch or channel vii. Other surface water feature viii. Other marine or freshwater habitat ix. Forest x. Grassland or grassy field xi. Parkland or woodland xii. Shrubby area xiii. Urban wildlife habitat xiv. Other terrestrial habitat	11	10
10. Is the lack of resources due to the contamination?	3.10.1	14
11. Is the contamination a localized source which has not migrated and will not migrate from the source to impact any on-site or off-site resources?	14	12
12. Does the site have widespread surface soil contamination that is not confined under and around buildings or paved areas?	Section 3.10.1	12
13. Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resource? (See #9 for list of potential resources. Contact DEC for information regarding endangered species.)	Section 3.10.1	14
14. No Fish and Wildlife Resources Impact Analysis needed.		