

690 SAINT PAUL STREET OFF-SITE

MONROE, NEW YORK

Final Engineering Report / Construction Completion Report

NYSDEC Site Number: C828159A

Prepared for:

Bausch & Lomb
1400 North Goodman Street
Rochester, New York 14609

Prepared by:

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Rochester, New York 14614
(585) 454-6110

FEBRUARY 2021

CERTIFICATIONS

I, DANIEL P. NOLL, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measure (IRM): Remedial Action Work Plan (RAWP) was implemented and that all construction activities were completed in substantial conformance with the Department-approved IRM RAWP.

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the IRM RAWP 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 a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

I certify that all documents generated 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 have 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, DANIEL P. NOLL, of LaBella Associates, DPC, 300 State Street, Rochester, New York 14614, am certifying as Remedial Party's Designated Site Representative for the site.

081996
NYS Professional Engineer #

2/22/2021
Date



Signature



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1.0 BACKGROUND AND SITE DESCRIPTION

Bausch & Lomb (B&L) entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) on January, 25 2017, to remediate an approximate 3.7-acre property located in the City of Rochester, Monroe County, New York. The property was remediated in accordance to the Order on Consent which included completing a Soil Vapor Intrusion Assessment (SVIA) and installation a Soil Vapor Intrusion Mitigation System (SVIMS) to mitigate impacts to indoor air for the 691 St. Paul Street building. The Order is limited to addressing contaminants (primarily trichloroethene (TCE) and associated compounds) that emanated from the 690 Saint Paul Street BCP site (Site # C828159) and potentially impacted indoor air quality in the off-site areas. The off-site areas are designated as Site #C828159A. The Order was NOT to fully remediate these off-site properties as a complete Remedial Investigation of these properties was outside the scope of the Order.

The site is located in the City of Rochester, Monroe County, New York and is identified as Section 106 Subsection 53 Block 01 and Lot 11, and with the address of the 691 St. Paul Street; and Section 106 Subsection 53 Block 01 Lot11 and with the address of 705 St. Paul Street on the Monroe County Tax Map (see Figure 2A). No remedial action was needed to address soil vapor intrusion at the 705 Saint Paul Street building based on the off-site investigation results.

The site is an approximately 3.7-acre area and is bounded by a parking lot to the north, Smith Street and High Falls Brewery to the south, St. Paul Street and 690 St. Paul Street (NYSDEC BCP Site #C828159) to the east, and Suntru Street and RG&E Substation #34 to the west (see Figure 2B – Site Layout Map). The boundaries of the site are also described in the Order on Consent and Administrative Settlement provided in Appendix 1.

An electronic copy of this Final Engineering Report (FER) / Construction Completion Report (CCR) with all supporting documentation is included as Appendix 2.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of the Soil Vapor Intrusion Investigation Report, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the 691 St. Paul Street building at a site.

2.2 Description of Site Remedy

The site was remediated in accordance with the remedy selected by the Decision Document and the IRM: RAWP discussed in Section 3.0.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

- Green remediation principals and techniques will be implemented to the extent feasible in the site management of the remedy as per DER-31. The major green remediation components are as follows:
 - Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
 - Reducing direct and indirect greenhouse gas and other emissions;
 - Increasing energy efficiency and minimizing use of non-renewable energy;
 - Conserving and efficiently managing resources and materials; and
 - Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste.
- A Site Management Plan is required, which includes the following:

An Engineering Control Plan that identifies all engineering controls and details the steps and media-specific requirements necessary to ensure the following engineering controls remain in place and effective:

Engineering Controls: The soil vapor intrusion mitigation system included installing sub-slab ventilation systems in the basement and sub-basement and applying a vapor barrier on a portion of the sub-basement wall.

This plan includes, but may not be limited to:

- a provision for the evaluation of the potential for soil vapor intrusion for any new occupied off-site buildings, in areas of site-related contamination, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- provisions for the management and inspection of the identified engineering controls; and
- the steps necessary for the periodic reviews and certification of the engineering controls.

A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- monitoring of off-site soil vapor intrusion mitigation systems to assess the performance and effectiveness of the remedy; and
- monitoring for vapor intrusion for off-site buildings, as may be required by the Engineering Control Plan discussed above.

3.0 INTERIM REMEDIAL MEASURES AND REMEDIAL CONTRACTS

3.1 Interim Remedial Measures

The Interim Remedial Measure (IRM) was implemented at the site when a source of contamination or exposure pathway could be effectively addressed before the issuance of the Decision Document. The following IRM was completed at the site in accordance with the following NYSDEC approved work plan:

- *Interim Remedial Measure: Remedial Action Work Plan, Sub-Slab Depressurization System, NYSDEC Site C828159A, 691 and 705 Saint Paul Street, Rochester, New York by LaBella Associates, D. P.C. dated September 29, 2017*

A SSDS was installed in the 691 St. Paul Street building from December 2018 to January 2018 to mitigate the potential for contaminant vapors to migrate through the sub-slab floor and into the indoor air. In addition, a portion of the lower basement eastern interior wall was coated with Drylock[®] paint to limit the potential for contaminant vapors to enter the building.

The SSDS was installed in substantial accordance with the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006 (and associated amendments). The majority of the system was constructed of Schedule 40 polyvinyl chloride (PVC) piping and fittings that conformed to American Society of Testing Materials (ASTM) D3034. The SSDS was designed to influence the 691 Saint Paul Street site building shown on Figure 2. The SSDS consists of four separate sub-systems identified as SSDS-1 to SSDS-4 that connect to depressurization points that are manifolded together horizontally along the building's ceiling each connecting to one fan. One condensate drain was installed for SSDS-1 and SSDS-2 at the location shown on Figure 3A and a diagram is shown on Figure 3C. All horizontal piping was sloped away and downward from the fans from each SSDS to help prevent potential condensate build up in the horizontal pipes. The condensate is intended to drain into vertical depressurization point and beneath the floor slab. As built drawings of the SSDS are shown on Figures 3A, 3B, and 3C.

Post SSDS start-up ambient air PID readings were collected from about 1 foot from each SSDS exhaust fans and the adjacent sidewalk next to the loading dock building to determine whether elevated concentration of VOCs were being discharged to frequently used spaces near the exhaust fans. All PID measurements were 0 parts per million. As such, SSDS fans are not exhausting VOCs from the sub-slab at a concentration of concern.

All exposed interior vent pipes were labeled that read “Sub-Slab Depressurization System.” The labeling of this system was completed to identify to the building owner the type/use of the pipe so that it will assist with preventing potential disturbance of the soil vapor intrusion mitigation system during future work at the site.

Each individual SSDS sub-system was equipped with a U-tube type manometer and RadonAway Checkpoint IIA Mitigation Alarm that are located adjacent to the loading dock building shown on Figure 3A. The RadonAway Checkpoint IIA Mitigation Alarm will alert the building occupants if there is a loss of pressure or air flow in a system, or if a fan ceases operation. The U-tube manometer demonstrates that pressure within the pipe is below atmospheric pressure. Post SSDS start-up U-tube manometer readings for each SSDS sub-system are detailed in Table 3.1 below.

Table 3.1 – Post SSDS Start-Up U-tube Manometer Readings

SSDS Sub System	Reading in Inches of Water Column
SSDS-1	2.7
SSDS-2	3.7
SSDS-3	2.7
SSDS-4	1.4

Pressure field extension (PFE) readings were measured throughout the installation of the SSDS to confirm the SSDS would provide sufficient influence beneath the sub-slabs. Subsequent to the installation of the SSDS, pressure field extension (PFE) readings were collected periodically to measure the influence of the SSDS. PFE readings are shown on Figures 4A (Upper Basement) and 4B (Lower Basement). As shown on Figures 4A and 4B the basement sub-slabs are depressurized to -0.004 inches of water column (IWC). A portion of the lower basement along the exterior wall and within the wood shop space, can exhibit positive pressure readings during windy weather conditions that blow against the lower basement foundation stone wall. PFE readings collected from the lower basement during windy conditions are shown on Figure 4C.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the site were conducted in accordance with the NYSDEC-approved IRM RAWP for the 691 and 705 St Paul Street Off-Site site (September 29, 2017). All deviations from the IRM RAWP are noted below.

4.1 Governing Documents

4.1.1 *Site Specific Health & Safety Plan (HASP)*

All remedial work performed under this IRM 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.

4.1.2 *Quality Control Plan (QCP)*

The QCP was included as Appendix 2 of the IRM RAWP approved by the NYSDEC. The QCP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 *Community Air Monitoring Plan (CAMP)*

The CAMP implemented during the Remedial Action activities was completed in accordance with the NYSDOH Generic CAMP as well as the modifications included in the NYSDEC approved IRM RAWP. The CAMP was only implemented during penetrations of the floor slab and within the interior building work space where the work was taking place at that specific time and at least one monitoring station was placed near an entrance to the room or area where the work was taking place.

Equipment for CAMP monitoring included upwind and downwind monitoring with a ppbRAE PID for VOC readings and TSI DustTrak™ II Aerosol Monitors (model 8530) for particulate concentrations in air. Background monitoring (upwind) location and downwind locations were positioned to monitor VOCs and concentrations of particulates in the air. Action levels for VOCs in the CAMP were specified as greater than 5 ppm, in which case work was to be halted and corrective actions are to be taken.

Actions levels for particulate concentrations downwind were specified as greater than 100 $\mu\text{g}/\text{m}^3$ above background concentrations for a 15-minute period or if airborne dust was observed leaving the work area. In the event 100 $\mu\text{g}/\text{m}^3$ is exceeded the CAMP specifies that fugitive dust control techniques must be employed which can include wetting down work areas and covering areas with plastic sheeting. If downwind particulate levels exceed 150 $\mu\text{g}/\text{m}^3$ above background concentrations work must be halted and dust control measures must be reevaluated. Actual CAMP results and response actions are provided in section 4.2.5.

Particulate concentrations in St. Michael's Woods Shop area were frequently artificially high due to the presence of saw dust throughout the space. Normal movement and work within St. Michael's Woods Shop area would move dust throughout the space resulting in false positive readings above the action level. Due to the size of the space and numerous surfaces inside the wood shop coupled with the frequent operations that including the sawing and cutting of wood, the saw dust was not able to be adequately removed to allow particulate readings consistently below the action level. These observations were observed by on-site NYSDEC representatives during the work, and work was allowed to continue.

4.1.4 Community Participant Plan

This Section summarizes the pertinent elements of the Community Participation Plan that were performed during the Remedial Action and those elements that pertain to the remainder of the remedial program. Elements of the Community Participation Plan include:

- Copies of the IRM RAWP, and other project documents are located in the following document repositories for public review:
 - Central Library of Rochester and Monroe County, 115 South Avenue, Rochester, New York 14604

- Rochester City School District Offices, 131 West Broad Street, Rochester, New York 14614
- Phillis Wheatley Community Library, 33 Dr. Samuel McCree Way, Rochester, New York 14608
- Lincoln Branch Library, 851 Joseph Avenue, Rochester, New York 14626
- NYSDEC Region 8 Office, 6274 East Avon-Lima Road, Avon, New York 14414

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

The following provides consultants and contractors involved with the remedy.

Table 4.2.1 – Contractors and Consultants

Contractor/ Consultant	Role
LaBella Associates, D.P.C.	Environmental consultant responsible for correspondence with NYSDEC, insuring compliance with applicable IRM RAWP documents, environmental oversight, reporting, sample collection, CAMP monitoring, and monitoring work. Certifying Engineer of Record- Daniel P. Noll, P.E.
Mitigation Tech	Construction contractor responsible for Site preparation/pilot test work and installation of the SSDS.
SUN Environmental	Waste Disposal Transportation
Cycle Chem (Lewisberry, PA)	Disposal Facility

4.2.2 Site Preparation

Mitigation Tech mobilized to the Site on December 4, 2017 to implement remedial measures at the site. Preparation work included the mobilization of equipment and supplies to construct the SSDS and to review and plan out piping pathways and depressurization points. During site preparation activities the, CAMP and HASP items were implemented per the IRM RAWP. The installation of the SSDS as completed on January 31, 2018 and full start-up of the SSDS occurred on February 1, 2018. Work during this time frame, the installation of the SSDS by Mitigation Tech was conducted intermittently.

4.2.3 General Site Controls

During remedial activities the site was secured by Monroe County or its security subcontractors with alarms to access the building and locks to work spaces.

Site records including CAMP data, chain of custodies, etc. were kept with LaBella personnel and stored at the LaBella office for the duration of the project.

No problems were encountered during the remedial work.

4.2.4 Nuisance Controls

No nuisance complaints were received during the project.

4.2.5 CAMP Results

During the implementation of remedial actions VOC action levels were not exceeded (for either the nearest potential receptor or downwind VOC monitoring) and particulate concentrations did exceed the action level of $150 \mu\text{g}/\text{m}^3$ above background levels at the Site borders. However, these exceedances are considered background site conditions within a portion of the site building known as the wood shop where wood and saw dust were prevalent across the site surface.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix 3.

4.2.6 Reporting

All daily reports are included in electronic format in Appendix 4.

The digital photo log is included in electronic format in Appendix 5.

4.3 Material Removal

On-site location from which materials were removed only include a limited of concrete and soil generated from the installation of the sub-slab depressurization points shown on Figures 3A and 3B. Two (2) 55-gallon drums of soil and concrete were removed as part of the installation of the sub-slab depressurization points.

4.3.1 Disposal Details

Table 4.3.2 shows the total quantity of material removed from the site and the disposal location. The waste characterization laboratory analytical reports is included in Appendix 8.

Letters from Applicants to disposal facility owners and acceptance letters from disposal facility owners are attached in Appendix 9.

Manifests and bills of lading are included in electronic format in Appendix 9.

TABLE 4.3.2 – Summary of Materials Disposal

Date of Disposal	Total Quantity Removed	Disposal Facility	Disposal Transporter	Disposal Documents	Summary of Waste Characterization Sampling*
3/25/2020	2 55-gallon drums of soil	Cycle Chem, 550 Industrial Drive, Lewisberry, PA 17339 [EPA ID PAD067098822]	SUN Environmental, Permit No. 7A-709	Appendix 9	Collected one composite soil sample from 2 drums of waste

Note: Waste characterization sample was tested for parameters as required by the accepting waste disposal facility.

4.4 Remedial Performance/Documentation Sampling

Post start-up indoor air sampling was conducted on March 16, 2018 to evaluate indoor air concentrations of chemicals of concern approximately 45 days subsequent to the installation and operation of the SSDS. The sampling was conducted during periods of winds speeds of low 20s miles per hour with gusts up to 35 miles per hour. Results indicate chemicals of concern are below the NYSDOH Air Guideline and background levels for samples collected within the 691 St. Paul Street building.

The Post SSDS Start-Up Sampling Results are included in Table 4.4(attached) and Figures 5A (upper basement and 5B (lower basement) summarize the results.

A Data Usability Summary Report (DUSR) was prepared for all data generated in this remedial performance evaluation program. The DUSR is included in Appendix 6, and associated raw is provided electronically in Appendix 7.

4.5 Other 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.

Procedures for monitoring, operating and maintaining the SSDS are provided in the Operation and Maintenance Plan in Section 5.0 of the Site Management Plan (SMP). The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-site ECs.

4.5.1 Sub-Slab Depressurization System

The SSDS depressurizes the sub-slab within the 691 Saint Paul Street building shown on Figure 2, thus mitigating potential soil vapor intrusion issues. In addition to the continual operation of the SSDS, monitoring of the effectiveness of the SSDS includes periodic checks of pressure field extension (PFE) monitoring points. The layout and components of the SSDS system is shown on Figures 3A and 3B.

The system was designed in accordance with the NYSDOH Final Guidance for Soil Vapor Intrusion in the State of New York dated October 2006. The installation of the additional vent systems was initiated on December 2018 and was completed during January 2018.

Drylock[®] paint was applied to a portion of the lower basement's eastern interior wall to the extent practical to minimize potential soil vapor intrusion issues within the lower basement and optimize the efficiency of the SSDS. The location where the vapor seal was placed is shown on Figure 3B.

Procedures for operating and maintaining the SSDS are documented in the Operation and Maintenance Plan (Section 5.0 of the SMP). As built drawings, signed and sealed by a professional engineer are included as Figures 3A, 3B, and 3C and are included in Appendix 3 – Operations and Maintenance Manual that is included in the SMP.

4.6 Deviations from the IRM Remedial Action Work Plan

The following deviations were made to the IRM RAWP:

- Section 4.4 Remedial Performance/Documentation Sampling: An outdoor ambient air or background sample was not collected during the Post SSDS start-up indoor air sampling event.

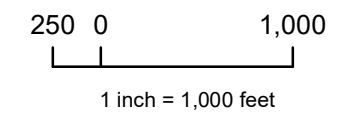
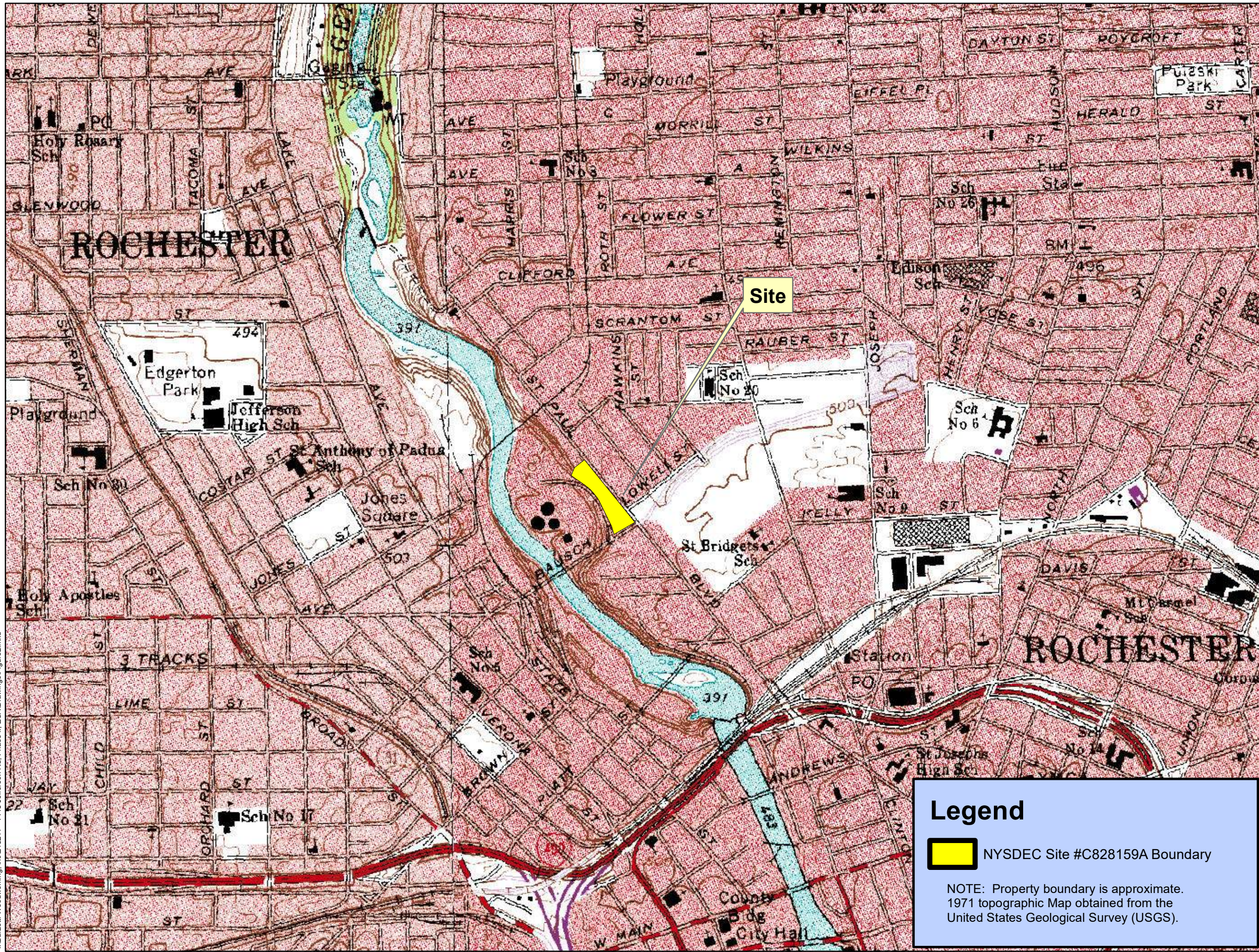


FIGURES

TITLE
SITE LOCATION MAP

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT
NYSDEC SITE #C828159A
691 AND 705 SAINT PAUL ST
ROCHESTER, NEW YORK

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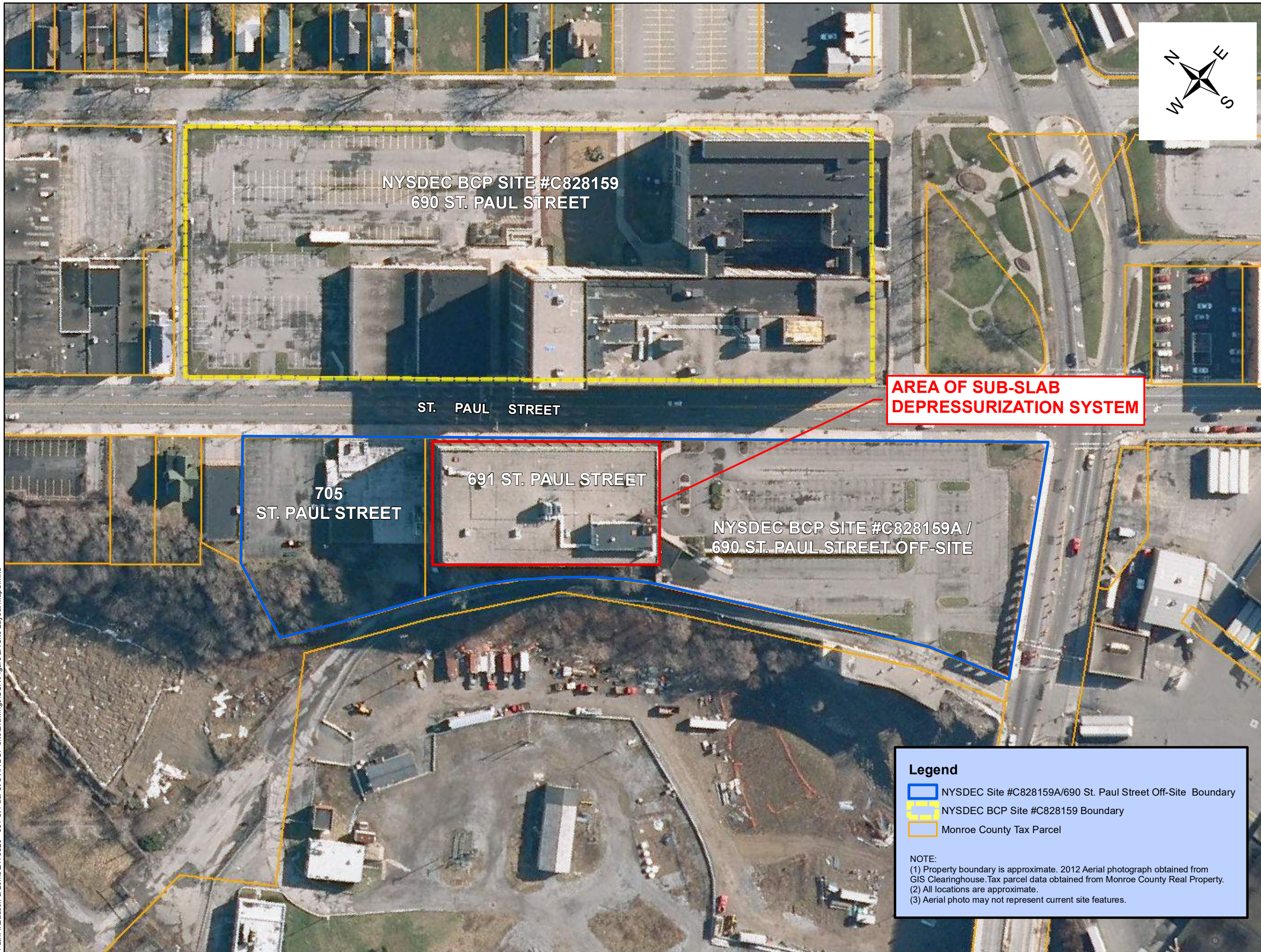
Tuesday, March 10, 2020
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Legend

 NYSDEC Site #C828159A Boundary

NOTE: Property boundary is approximate.
1971 topographic Map obtained from the
United States Geological Survey (USGS).

[2170820]
[FIGURE 1]

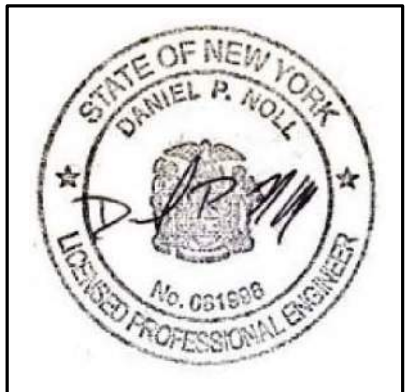


TITLE
SITE MAP

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT

690 SAINT PAUL ST OFF-SITE
NYSDEC SITE #C828159A
691 AND 705 SAINT PAUL ST
ROCHESTER, NEW YORK

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It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

0 25 50 100 Feet

1 inch = 100 feet

Tuesday, March 10, 2020

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[FIGURE 2A]

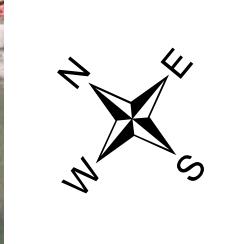
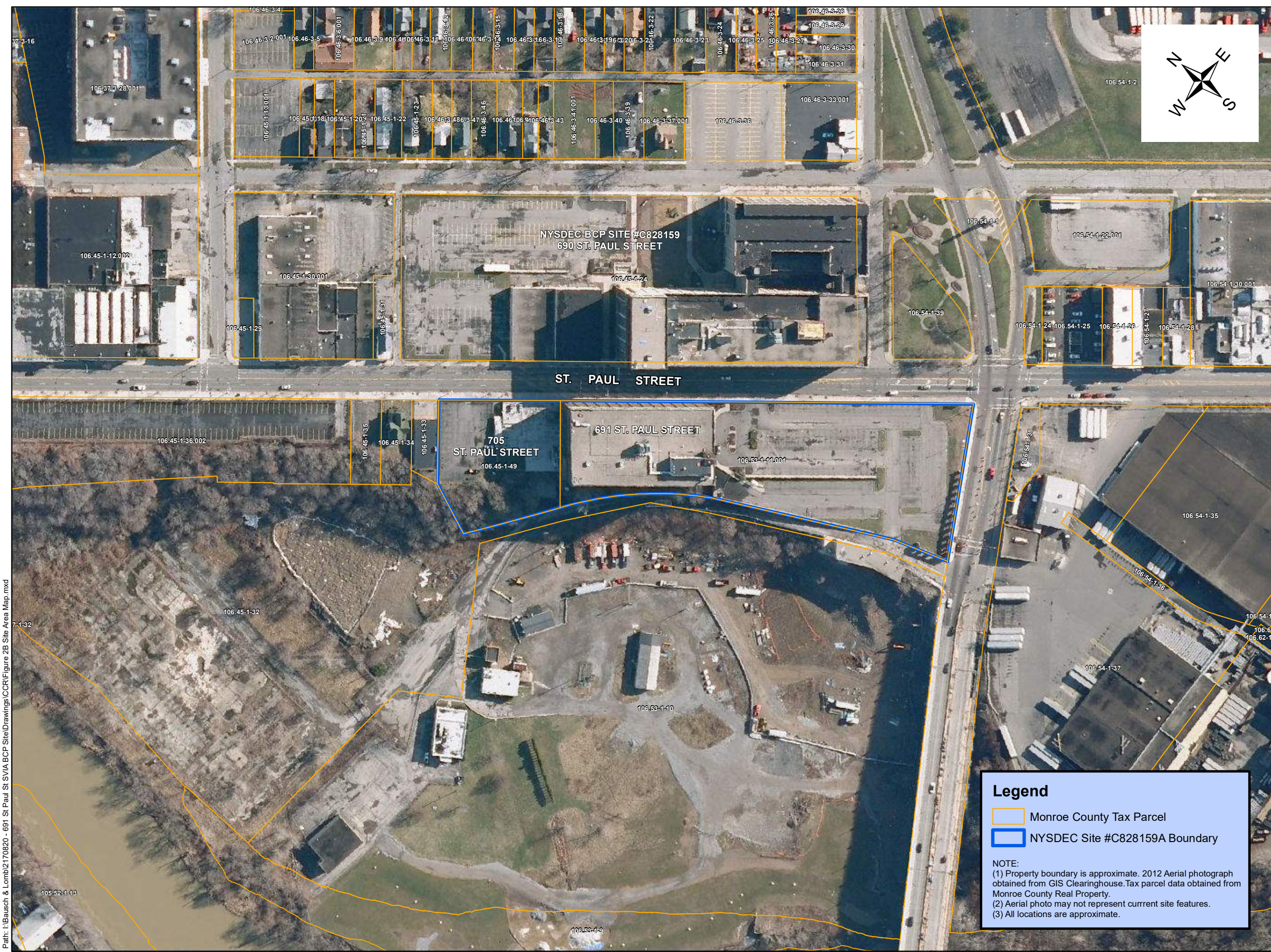
Legend

- NYSDEC Site #C828159A/690 St. Paul Street Off-Site Boundary
- NYSDEC BCP Site #C828159 Boundary
- Monroe County Tax Parcel

NOTE:

- (1) Property boundary is approximate. 2012 Aerial photograph obtained from GIS Clearinghouse. Tax parcel data obtained from Monroe County Real Property.
- (2) All locations are approximate.
- (3) Aerial photo may not represent current site features.

Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St. VIA BCP Site\Drawings\CCR\Figure 2A Site Layout MapS.mxd



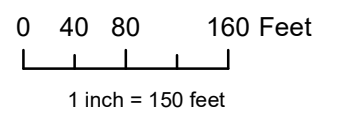
TITLE
MONROE COUNTY TAX AND AREA MAP

PROJECT
FINAL ENGINEERING AND CONSTRUCTION COMPLETION REPORT
690 SAINT PAUL ST OFF-SITE NYSDEC SITE #C828159A
691 SAINT PAUL ST ROCHESTER, NEW YORK

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[FIGURE 2B]

Legend

- Monroe County Tax Parcel
- NYSDEC Site #C828159A Boundary

NOTE:
 (1) Property boundary is approximate. 2012 Aerial photograph obtained from GIS Clearinghouse. Tax parcel data obtained from Monroe County Real Property.
 (2) Aerial photo may not represent current site features.
 (3) All locations are approximate.

Path: I:\Bausch & Lomb\2170820 - 691 St Paul St SVIA BCP Site\Drawings\CCR\Figure 2B Site Area Map.mxd

TITLE
SUB-SLAB DEPRESSURIZATION
AS BUILTS - UPPER BASEMENT

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT

NYSDEC SITE #C828159A
691 AND 705 SAINT PAUL ST
ROCHESTER, NEW YORK

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0 12.5 25 Feet

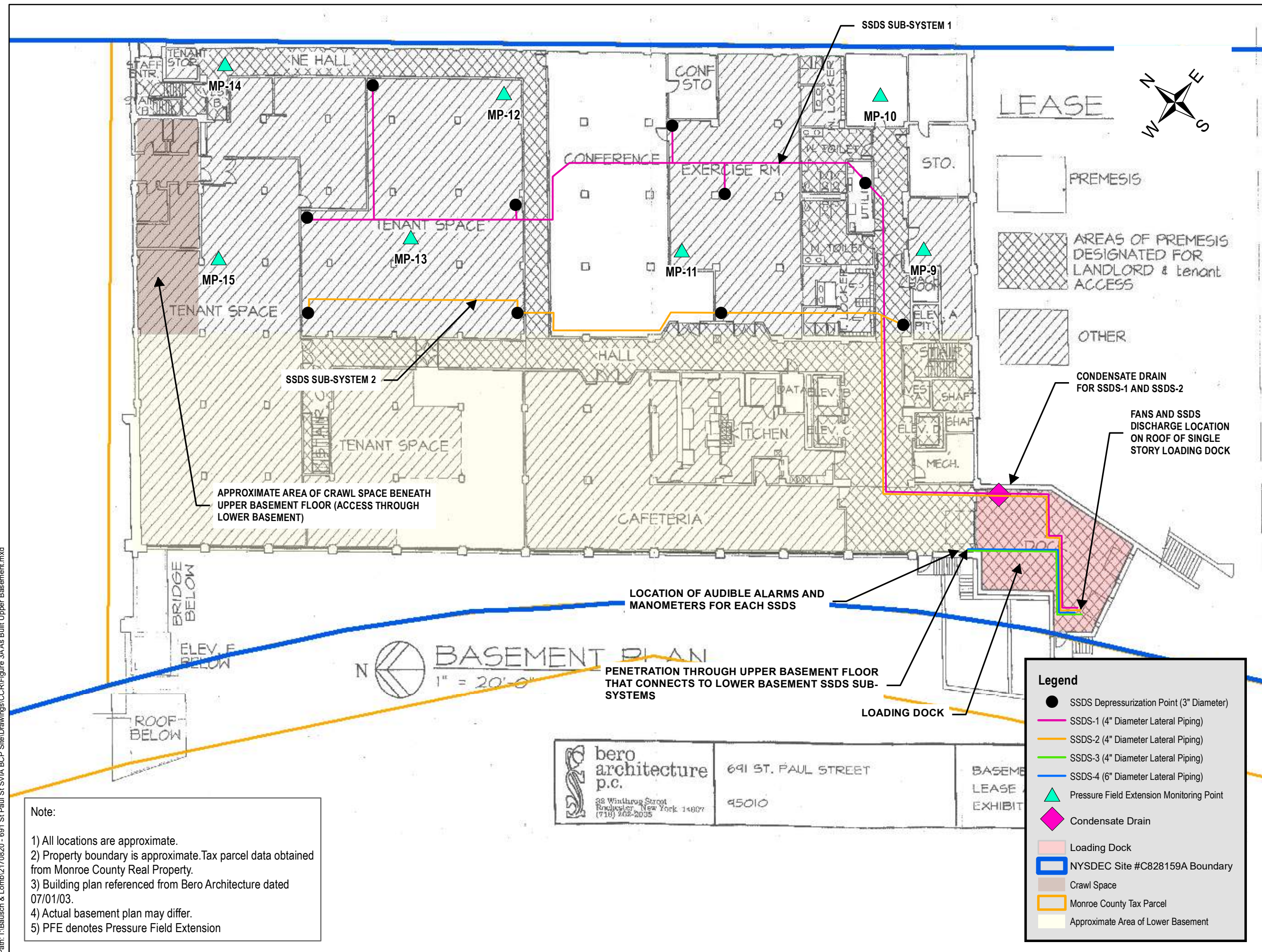
1 inch = 25 feet

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[FIGURE 3A]

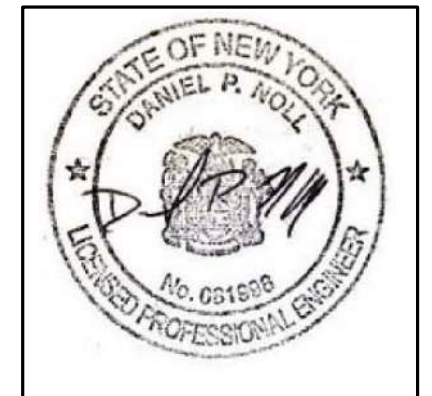


Path: I:\Bausch & Lomb\2170820 - 691 St Paul St SVIA BCP Site\Drawings\CCRI\Figure 3A As Built Upper Basement.mxd

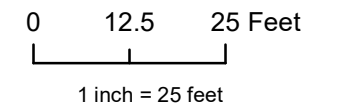
TITLE
SUB-SLAB DEPRESSURIZATION
AS BUILTS - LOWER BASEMENT

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT
NYSDEC SITE #C828159A
691 AND 705 SAINT PAUL ST
ROCHESTER, NEW YORK

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Tuesday, March 10, 2020

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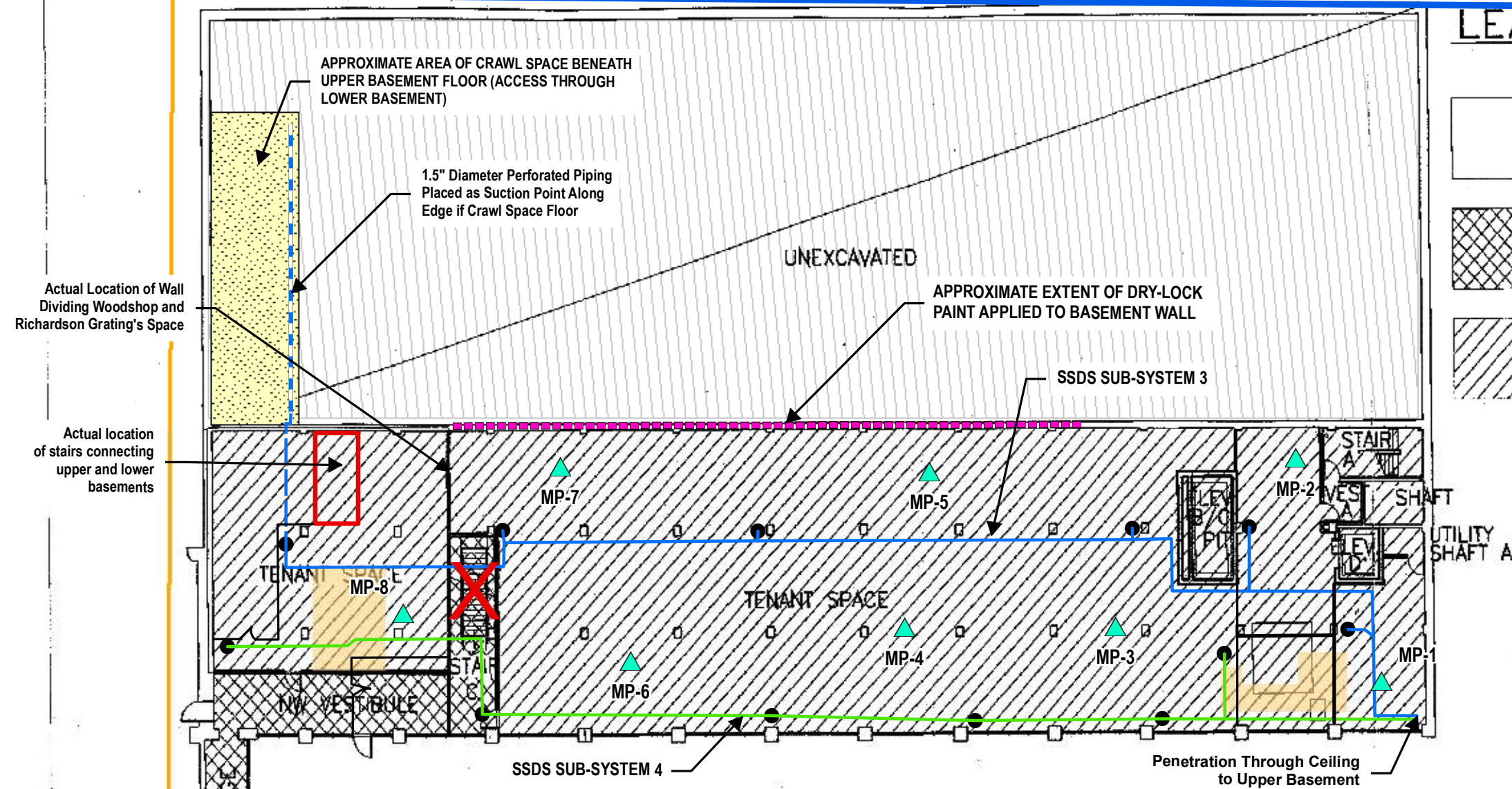
[2170820]

[FIGURE 3B]



Legend

- PREMESIS
- AREAS OF PREMESIS DESIGNATED FOR LANDLORD & TENANT ACCESS
- OTHER



SUBBASEMENT PLAN
1" = 20'-0"

bero architecture p.c.
43 Washington Street
Rochester, New York 14607
(716) 289-3035

691 ST. PAUL STREET
95010

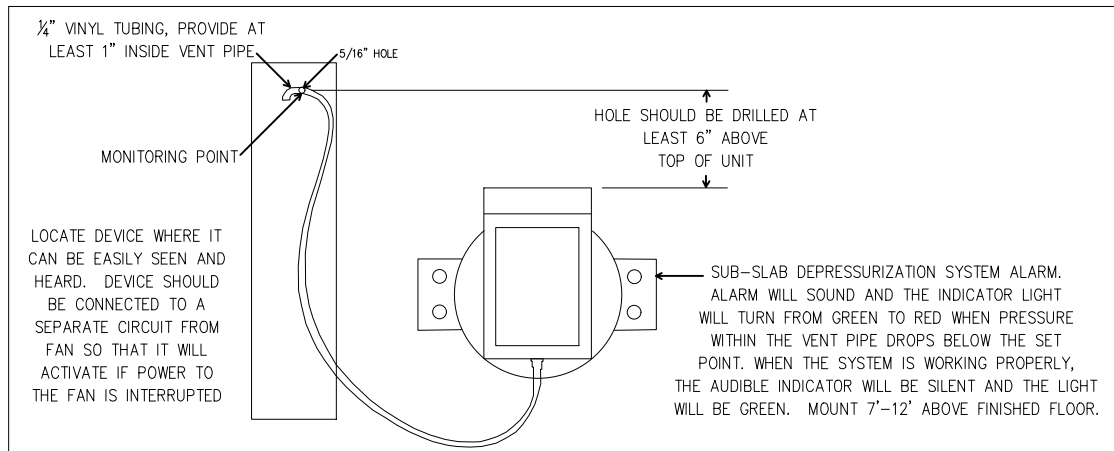
Note:

- 1) All locations are approximate.
- 2) Property boundary is approximate. Tax parcel data obtained from Monroe County Real Property.
- 3) Building plan referenced from Bero Architecture dated 07/01/03.
- 4) Actual basement plan may differ.
- 5) PFE denotes Pressure Field Extension

Legend

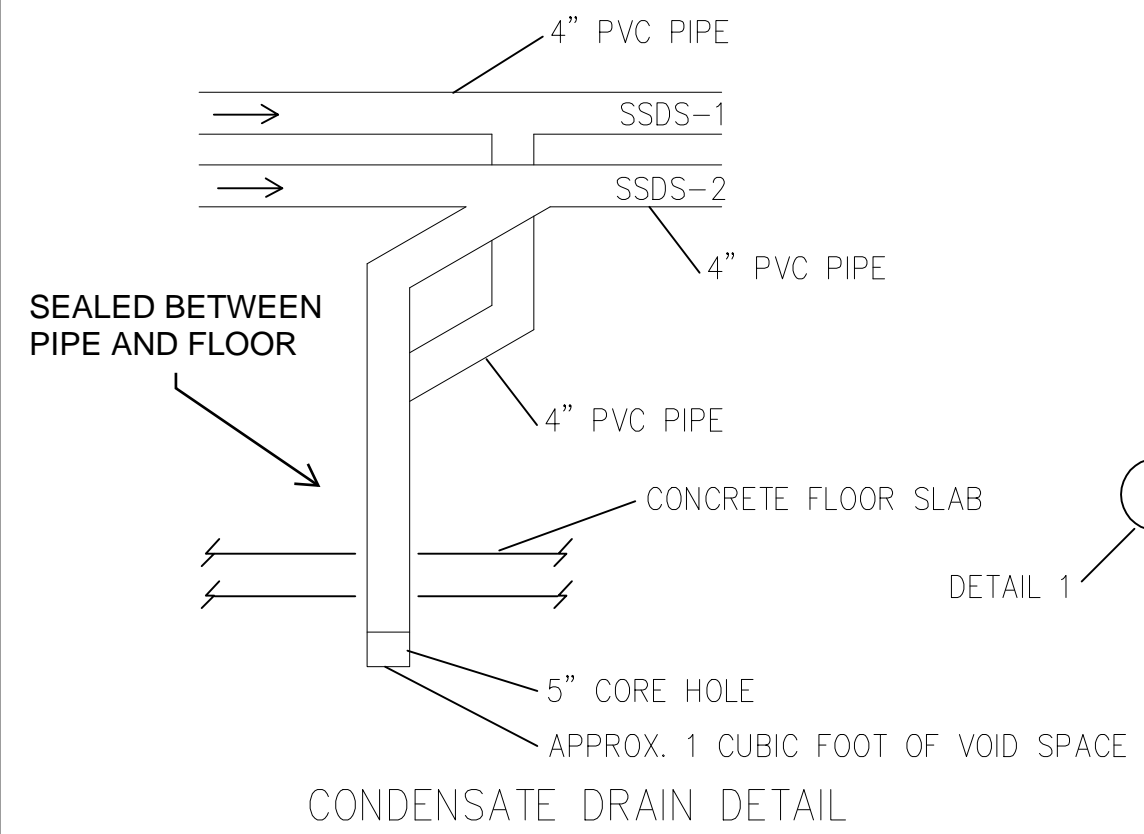
- Pressure Field Extension Point
- Approximate Area of Drylock Paint
- SSDS-3 (4" Diameter Lateral Piping)
- SSDS-3 (1.5" Diameter Lateral Piping)
- SSDS-4 (6" Diameter Lateral Piping)
- Depressurization Point - 1.5" Diameter Perforated Piping
- Depressurization Point (3" Diameter)
- NYSDEC Site #C828159A Boundary
- Crawl Space
- Approximate Location of Subsurface Pit
- Approximate Extent of Upper Basement
- Monroe County Tax Parcel

Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St. SVIA BCP Site\Drawings\CCRI\Figure 3B As Built Lower Basement.mxd



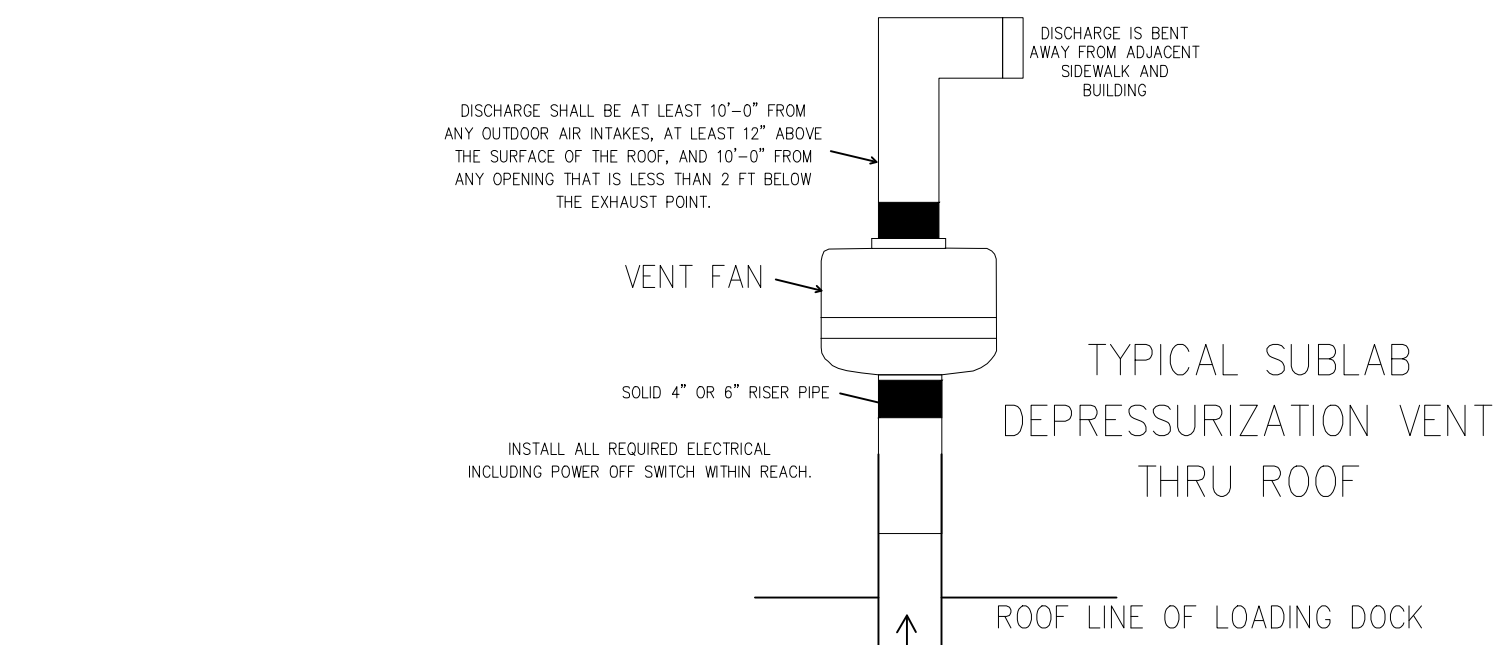
- NOTES:
1. PRESSURE SET POINT: -0.25 INCHES WC.
 2. PROVIDE ALARM COMPANY LABEL AND CONTACT INFORMATION.

DETAIL 1
 SUBSLAB DEPRESSURIZATION SYSTEM
 ALARM DETAIL

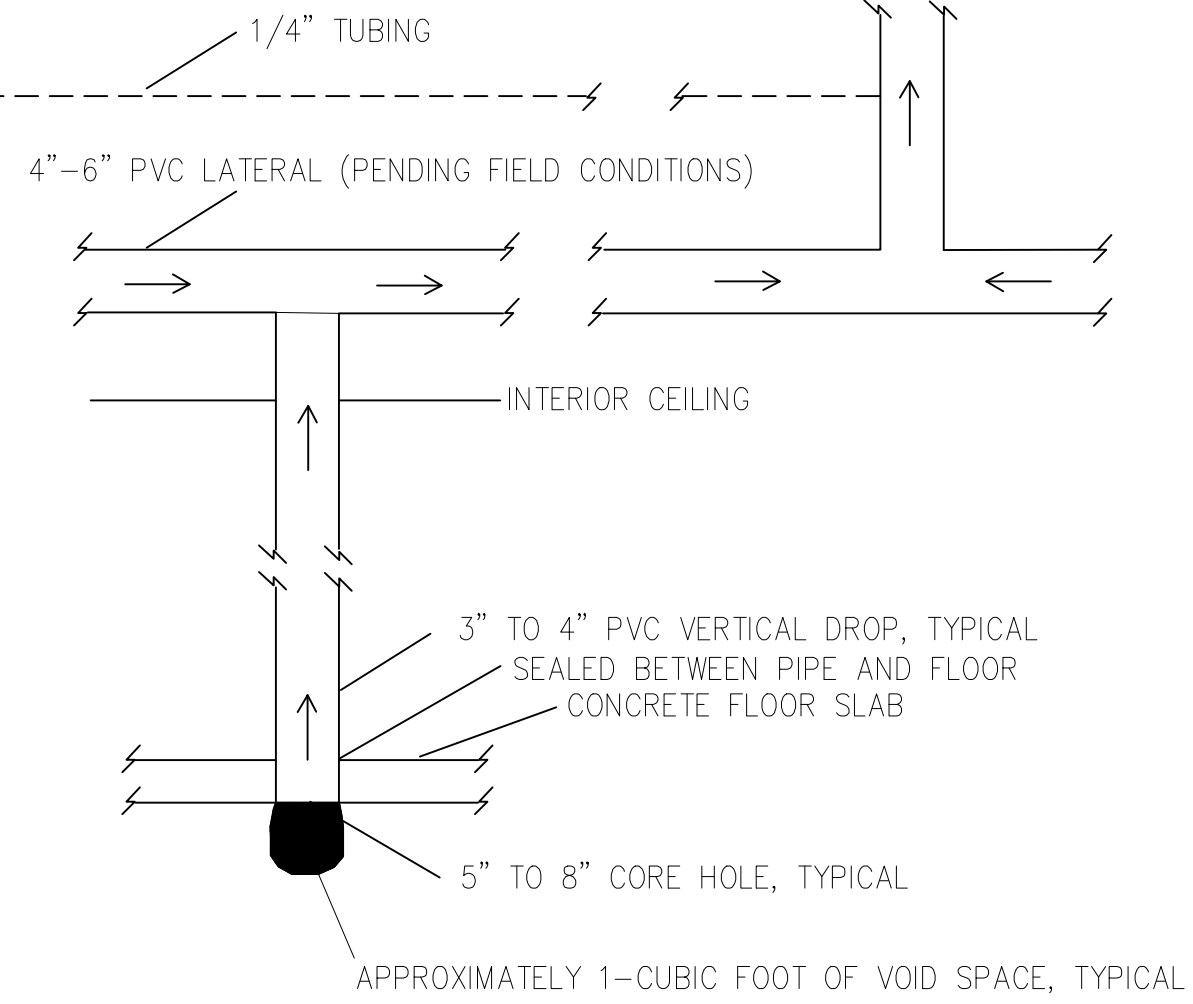


CONDENSATE DRAIN DETAIL

SUBSOIL DEPRESSURIZATION SYSTEM PIPING NOTES:
 A. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL CONFORM TO ASTM D3034.



TYPICAL SUBSLAB
 DEPRESSURIZATION VENT
 THRU ROOF



LEGEND

↑ SYSTEM FLOW DIRECTION

DRAWING NOT TO SCALE

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LABELLA
 Associates, P.C.

300 STATE STREET
 ROCHESTER, NY 14614
 P: (585) 454-6110
 F: (585) 454-3066
 www.labellapc.com
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PROJECT/CLIENT
 DEPRESSURIZATION SYSTEM DETAIL
 BCP SITE # C828159A
 691 AND 705 SAINT PAUL STREET
 ROCHESTER, NEW YORK

DRAWING/TITLE
 PROPOSED SUB-SLAB
 DEPRESSURIZATION SYSTEM DETAILS

ISSUED FOR: FINAL
 DESIGNED BY: DPN
 DRAWN BY: DRP
 REVIEWED BY: DPN
 DATE: AUGUST 2017

PROJECT/DRAWING NUMBER
 2170820
 FIGURE 3C

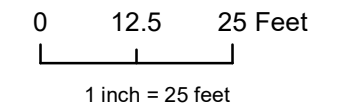
TITLE
PRESSURE FIELD EXTENSION
CONTOURS -
UPPER BASEMENT

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT
690 SAINT PAUL ST OFF-SITE
NYSDEC SITE #C828159A
691 SAINT PAUL ST
ROCHESTER, NEW YORK

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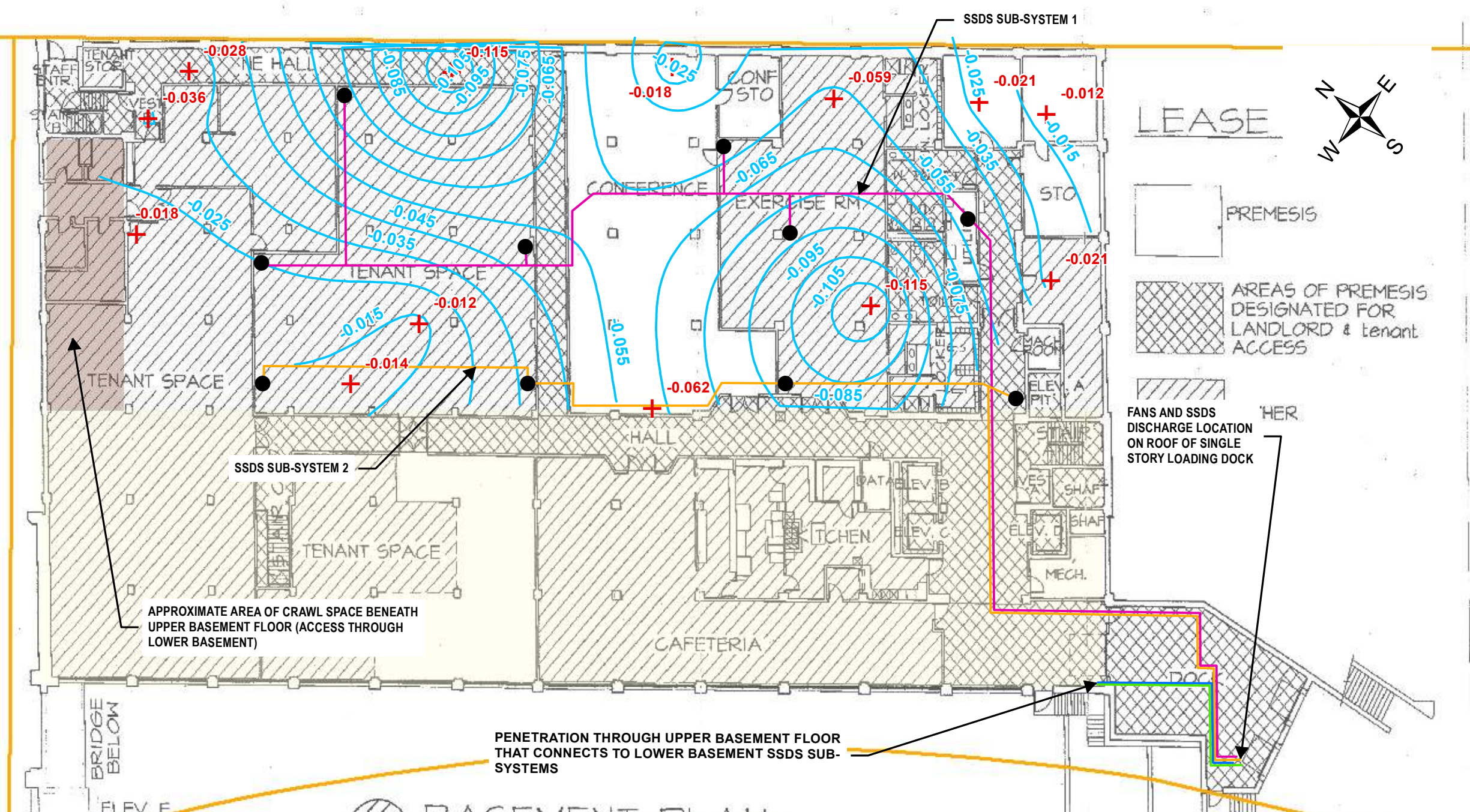


Tuesday, March 10, 2020

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[2170820]

[FIGURE 4A]



BASEMENT PLAN
1" = 20'-0"

bero architecture p.c.
38 Winthrop Street
Rochester, New York 14607
(716) 402-2035

691 ST. PAUL STREET
14510

Legend

- + Temporary PFE Monitoring Point (inH2O)
- SSDS Depressurization Point (3" Diameter)
- SSDS-1 (4" Diameter Lateral Piping)
- SSDS-2 (4" Diameter Lateral Piping)
- SSDS-3 (4" Diameter Lateral Piping)
- SSDS-4 (6" Diameter Lateral Piping)
- PFE Contour Upper Basement (inH2O)
- ▨ Crawl Space
- ▭ Monroe County Tax Parcel
- ▭ Approximate Area of Lower Basement

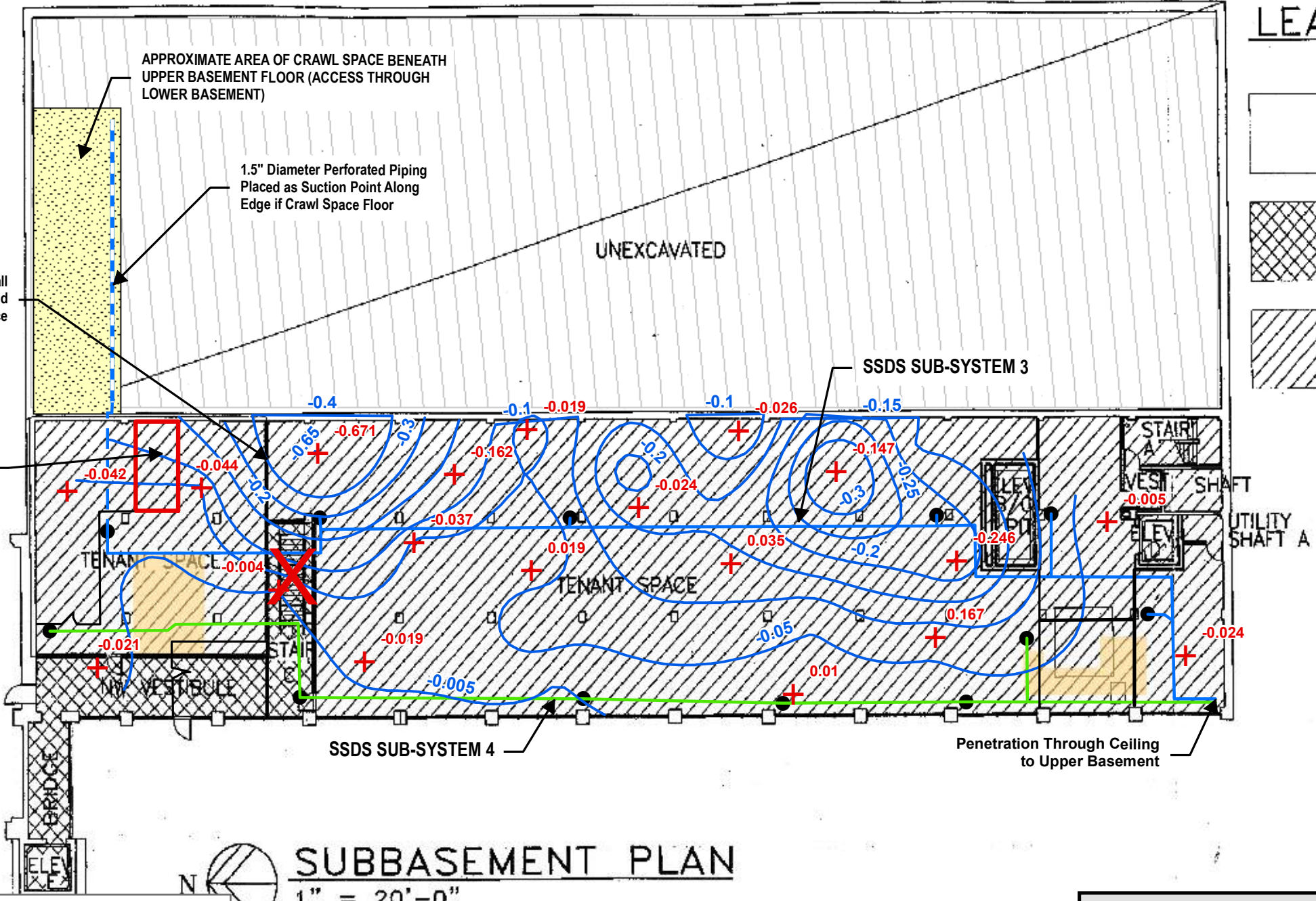
Note:

- 1) All locations are approximate.
- 2) Refer to Figure 5 for SSDS details
- 3) Property boundary is approximate. Tax parcel data obtained from Monroe County Real Property.
- 4) Building plan referenced from Bero Architecture dated 07/01/03.
- 5) Actual basement plan may differ.
- 6) PFE denotes Pressure Field Extension
- 7) Isoleths of average PFE measurements detected in temporary PFE monitoring points at the Site were developed using the Kriging interpolation method. These contours are shown to illustrate general pressure differential readings between the ambient air space and sub-slab at the Site. These contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.

PFE Measurements Collected in February 2018

Path: I:\Bausch & Lomb\2170820 - 691 St Paul St SVIA BCP Site\Drawings\CCRI\Figure 4A Pressure Contours Upper Basement-2.mxd

Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St. S\BIA BCP Site\Drawings\CCR\Figure 4B Pressure Contours Lower Basement.mxd



LEAS

AREAS OF PREMESIS DESIGNATED FOR LANDLORD & tenant ACCESS

OTHER

LaBella
Powered by partnership.

TITLE
PRESSURE FIELD EXTENSION
CONTOURS -
LOWER BASEMENT

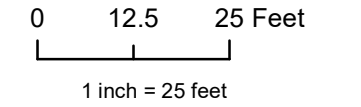
PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT

690 SAINT PAUL ST OFF-SITE
NYSDEC SITE #C828159A
691 SAINT PAUL ST
ROCHESTER, NEW YORK

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FIGURE 4B

Note:

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- 2) Refer to Figure 5 for SSDS details
- 3) Property boundary is approximate. Tax parcel data obtained from Monroe County Real Property.
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- 5) Actual basement plan may differ.
- 6) PFE denotes Pressure Field Extension
- 7) Isoleths of average PFE measurements detected in temporary PFE monitoring points at the Site were developed using the Kriging interpolation method. These contours are shown to illustrate general pressure differential readings between the ambient air space and sub-slab at the Site. These contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.
- 8) PFE measurements collected in February 2018.

SUBBASEMENT PLAN

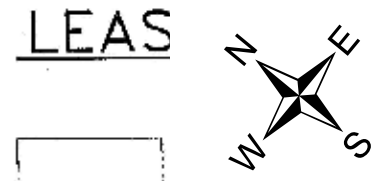
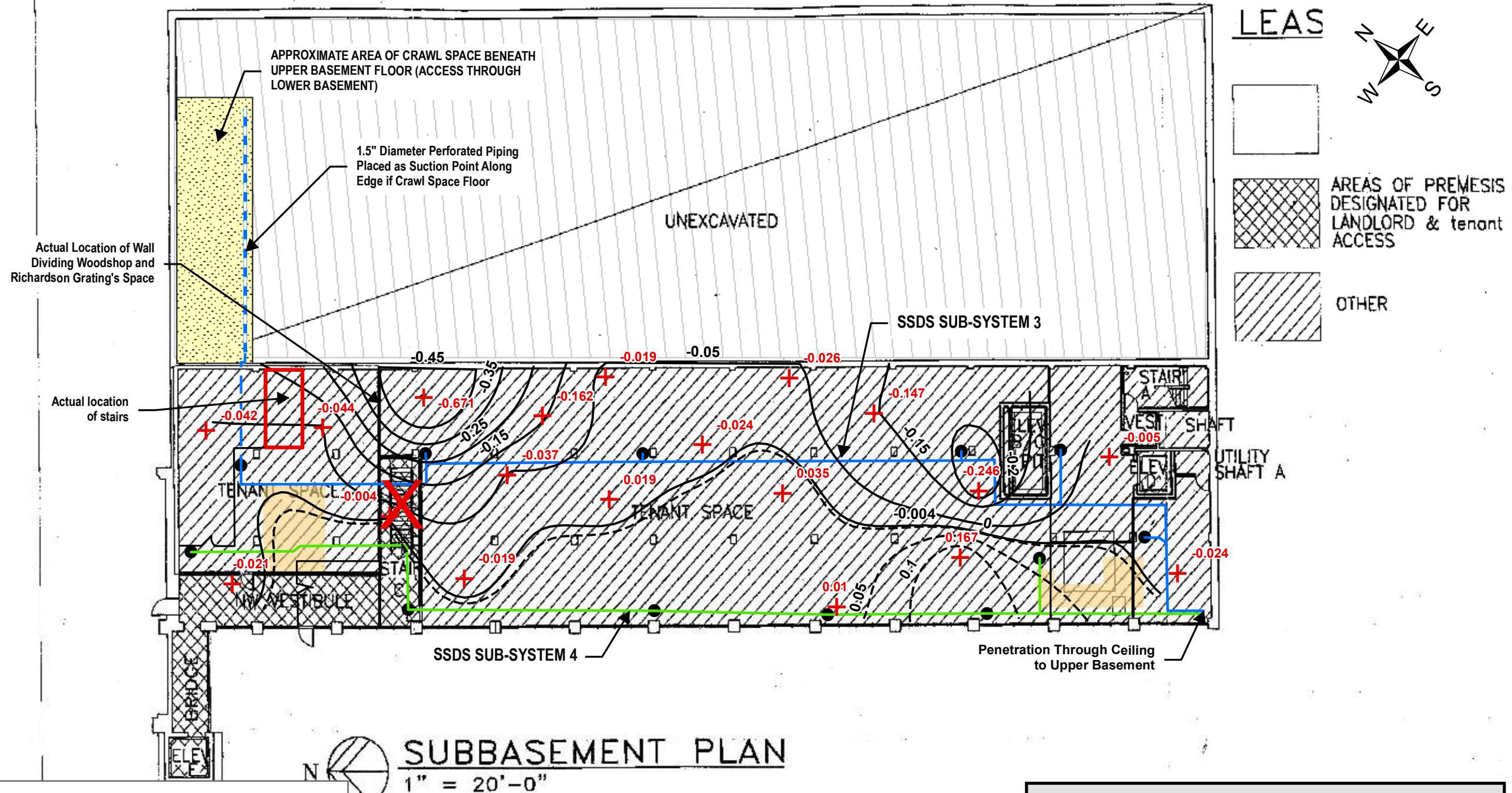
1" = 20'-0"

<p>bero architecture p.c.</p> <p>48 Windrup Street Rochester, New York 14607 (716) 282-2035</p>	691 ST. PAUL STREET
	145010

Legend

- + Temporary PFE Monitoring Point (inH2O)
- PFE Contour Lower basement (inH2O)
- SSDS-3 (4" Diameter Lateral Piping)
- - - SSDS-3 (1.5" Diameter Lateral Piping)
- SSDS-4 (6" Diameter Lateral Piping)
- Depressurization Point (3" Diameter)
- - - Depressurization Point - 1.5" Diameter Perforated Piping
- ▨ Crawl Space
- ▨ Approximate Location of Subsurface Pit
- ▨ Approximate Extent of Upper Basement

Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St. S\IA\BCP_Site\Drawings\CCR\Figure 4C Pressure Contours Lower Basement.mxd



LEAS

- AREAS OF PREMESIS DESIGNATED FOR LANDLORD & tenant ACCESS
- OTHER

LaBella
Powered by partnership.

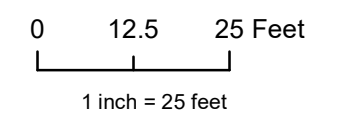
TITLE
PRESSURE FIELD EXTENSION
CONTOURS -
LOWER BASEMENT

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT
690 SAINT PAUL ST OFF-SITE
NYSDEC SITE #C828159A
691 SAINT PAUL ST
ROCHESTER, NEW YORK

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BAUSCH AND LOMB



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Tuesday, March 10, 2020
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[2170820]
[FIGURE 4C]

Note:

- 1) All locations are approximate.
- 2) Refer to Figure 5 for SSDS details
- 3) Property boundary is approximate. Tax parcel data obtained from Monroe County Real Property.
- 4) Building plan referenced from Bero Architecture dated 07/01/03.
- 5) Actual basement plan may differ.
- 6) PFE denotes Pressure Field Extension
- 7) Isoleths of average PFE measurements detected in temporary PFE monitoring points at the Site were developed using the Kriging interpolation method. These contours are shown to illustrate general pressure differential readings between the ambient air space and sub-slab at the Site. These contour lines are approximate and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.
- 8) PFE measurements collected in March 2018.

SUBBASEMENT PLAN
1" = 20'-0"

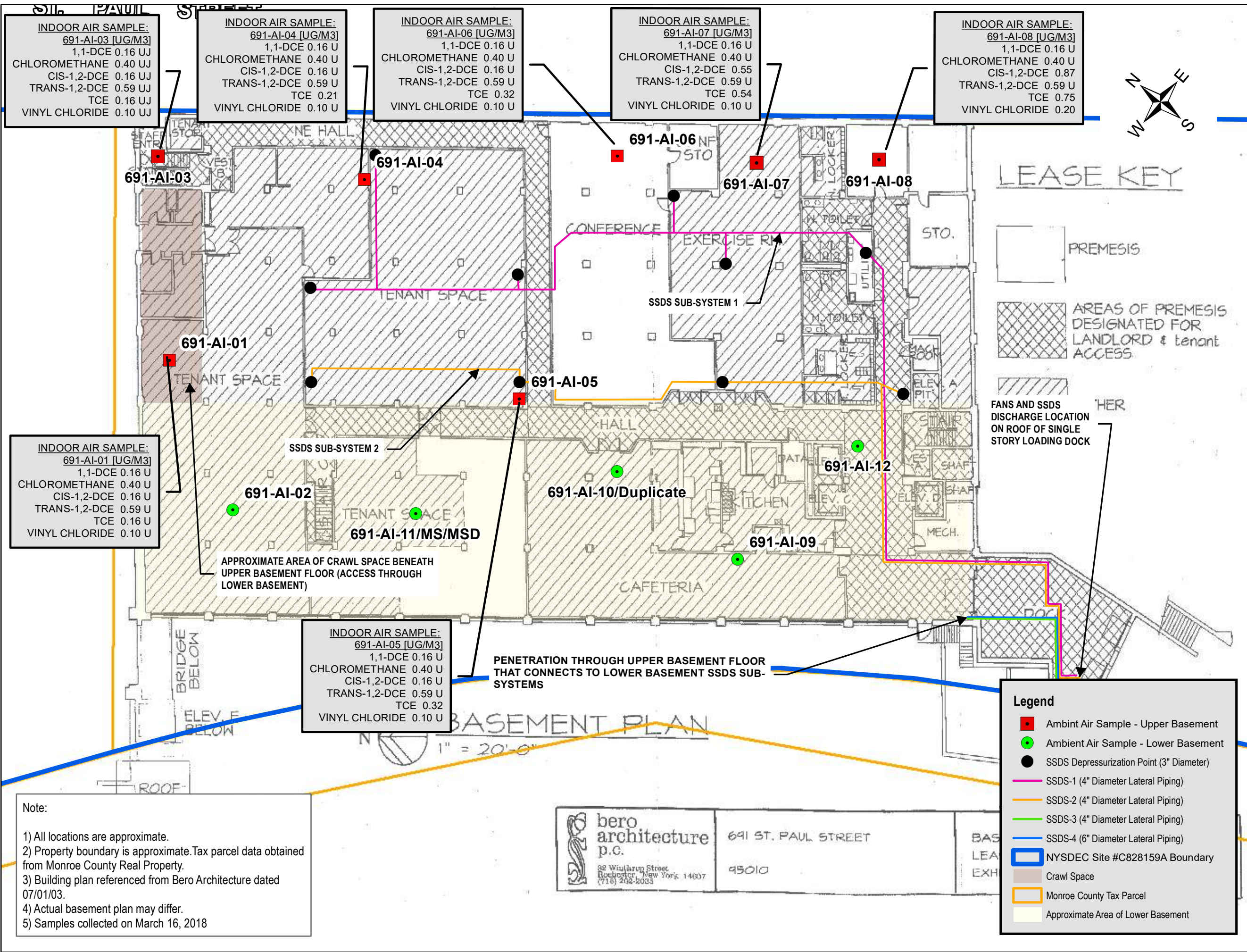
bero architecture p.c.
48 Windrup Street
Rochester, New York 14607
(716) 282-2035

691 ST. PAUL STR
14510

Legend

- Temporary PFE Monitoring Point (inH2O)
- PFE Contour Lower Basement with Negative Pressure (inH2O)
- PFE Contour Lower Basement with Positive Pressure (inH2O)
- SSDS-3 (4" Diameter Lateral Piping)
- SSDS-3 (1.5" Diameter Lateral Piping)
- SSDS-4 (6" Diameter Lateral Piping)
- Depressurization Point (3" Diameter)
- Depressurization Point - 1.5" Diameter Perforated Piping
- Crawl Space
- Approximate Location of Subsurface Pit
- Approximate Extent of Upper Basement

Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St SVIA BCP Site\Drawings\CCRI\Figure 5A Post-SSDS Sampling Upper Basement.mxd



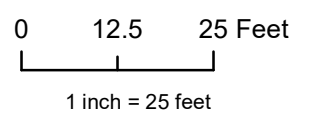
TITLE
POST SUB-SLAB DEPRESSURIZATION INSTALLATION INDOOR AIR SAMPLE RESULTS - UPPER BASEMENT

PROJECT
FINAL ENGINEERING AND CONSTRUCTION COMPLETION REPORT
690 SAINT PAUL ST OFF-SITE NYSDEC SITE #C828159A
691 SAINT PAUL ST ROCHESTER, NEW YORK

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2170820

FIGURE 5A

bero architecture p.c.
 82 Winthrop Street
 Rochester, New York 14607
 (716) 202-2083

691 ST. PAUL STREET
 45010

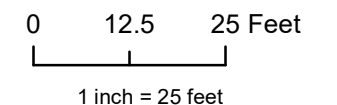
TITLE
POST SUB-SLAB
DEPRESSURIZATION
INSTALLATION INDOOR AIR
LOWER BASEMENT

PROJECT
FINAL ENGINEERING AND
CONSTRUCTION COMPLETION
REPORT
690 SAINT PAUL ST OFF-SITE
NYSDEC SITE #C828159A
691 SAINT PAUL ST
ROCHESTER, NEW YORK

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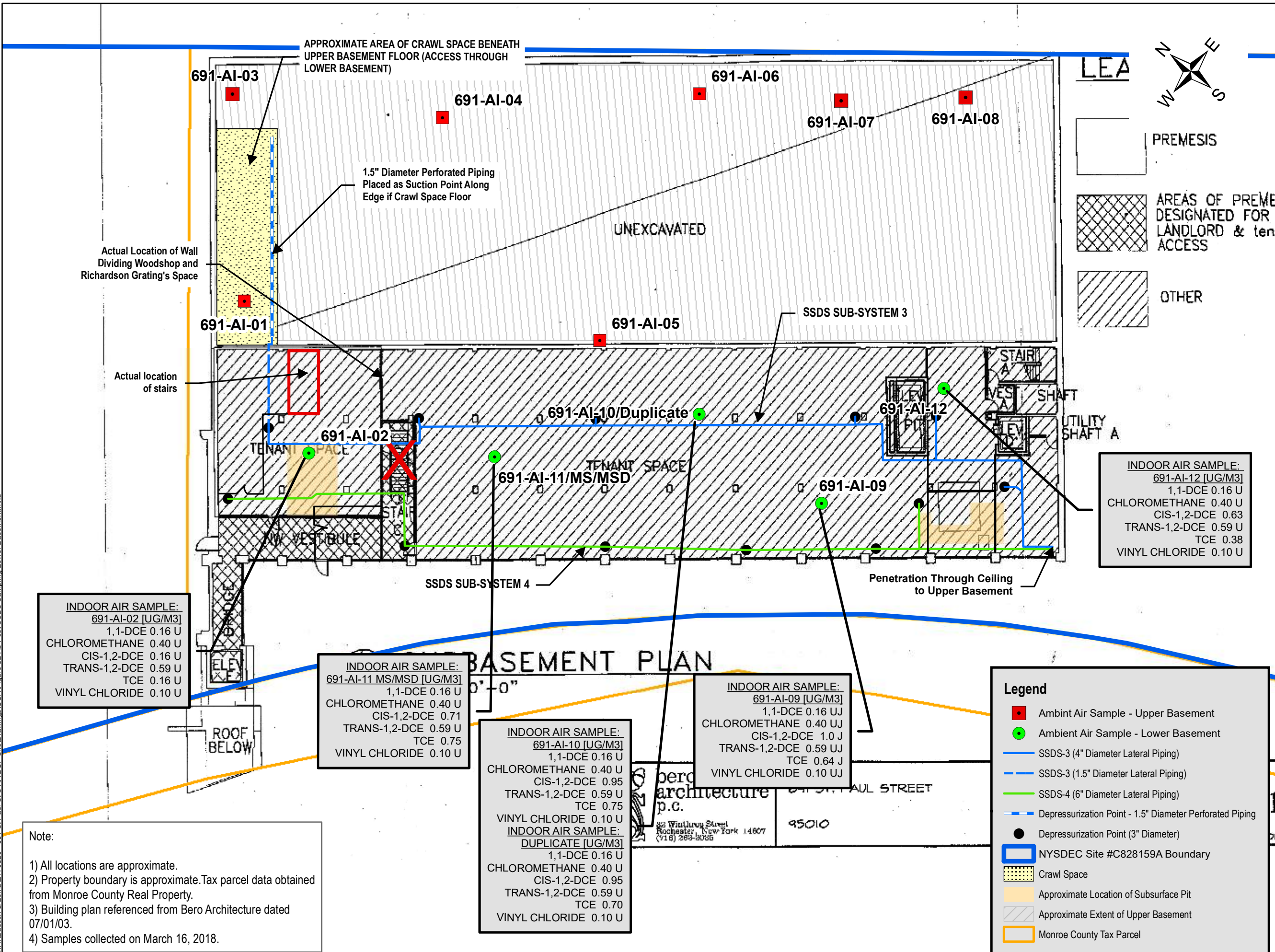


Tuesday, March 10, 2020

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2170820

FIGURE 5B



Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St. SVIA BCP Site\Drawings\COR\Figure 5B As Post SSDS Sampling Lower Basement.mxd



TABLES

TABLE 4.4

Post SSDS Startup Indoor Ambient Air Sample Results
 690 Saint Paul Street Off-Site, NYSDEC Site #C828159A
 691 Saint Paul Street, Rochester, New York
 LaBella Project #2170820



UPPER BASEMENT SAMPLES											
Sample ID	Units	691-AI-01	691-AI-03	691-AI-04	691-AI-05	691-AI-06	691-AI-07	691-AI-08	NYSDOH Indoor Air Guideline(1)	NYSDOH Guidance Table C2 USEPA BASE Database - 90th Percentile(2)	
Sample Type		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air			
Sample Date		3/16/2018	3/16/2018	3/16/2018	3/16/2018	3/16/2018	3/16/2018	3/16/2018			
1,1-Dichloroethene	ug/m ³	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NL	<1.4	
Chloroethane	ug/m ³	0.40 U	0.40 UJ	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	NL	<1.1	
cis-1,2-Dichloroethene	ug/m ³	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U	0.55 U	0.87 U	NL	<2.0	
trans-1,2-Dichloroethene	ug/m ³	0.59 U	0.59 UJ	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	NL	<10 ⁽³⁾	
Trichloroethene (TCE)	ug/m ³	0.16 U	0.16 UJ	0.21 U	0.32 U	0.32 U	0.54 U	0.75 U	2	4.2	
Vinyl chloride	ug/m ³	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	NL	<1.9	

LOWER BASEMENT SAMPLES										
Sample ID	Units	691-AI-02	691-AI-09	691-AI-10	691-AI-11/MS/MSD	691-AI-12	DUPLICATE (691-AI-10)	NYSDOH Indoor Air Guideline(1)	NYSDOH Guidance Table C2 USEPA BASE Database - 90th Percentile(2)	
Sample Type		Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air	Ambient Air			
Sample Date		3/16/2018	3/16/2018	3/16/2018	3/16/2018	3/16/2018	3/16/2018			
1,1-Dichloroethene	ug/m ³	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U	0.16 U	NL	<1.4	
Chloroethane	ug/m ³	0.40 U	0.40 UJ	0.40 U	0.40 U	0.40 U	0.40 U	NL	<1.1	
cis-1,2-Dichloroethene	ug/m ³	0.16 U	1.0 J	0.95 U	0.71 U	0.63 U	0.95 U	NL	<2.0	
trans-1,2-Dichloroethene	ug/m ³	0.59 U	0.59 UJ	0.59 U	0.59 U	0.59 U	0.59 U	NL	<10 ⁽³⁾	
Trichloroethene (TCE)	ug/m ³	0.16 U	0.64 J	0.75 U	0.75 U	0.38 U	0.70 U	2	4.2	
Vinyl chloride	ug/m ³	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	NL	<1.9	

Notes:

Concentrations in micrograms per cubic meter (ug/m³)

Samples analyzed by USEPA Method TO-15

NL denotes Not Listed

(1) New York State Department of Health (NYSDOH) Air Guideline Included in Table 3.1 of the Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 (and applicable updates).

(2) USEPA 2001 Building Assessment and Survey Evaluation (BASE) Database (90th Percentile). As recommended in Section 3.2.4 of the NYSDOH Guidance (Refer to Footnote *1*) this database is referenced for the indoor air sampling results. This database is also referenced to provide internal benchmarks for comparison to the air sampling data and does not represent regulatory standards or compliance values.

(3) No value was listed in NYSDOH Table C2 - USEPA Base Database. A value from Table C3 NYSDOH 1997: Control home database (90th Percentile) was used.

*"<" indicates the results was detected below the reported laboratory method detection limit



APPENDIX 1

Order on Consent and Administrative Settlement

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE SUPERFUND PROGRAM
ECL §27-1301 *et seq.*

In the Matter of a Remedial Program for

**ORDER ON CONSENT AND
ADMINISTRATIVE SETTLEMENT**
Index No. R8-20161013-107

DEC Site Name: 690 St. Paul Street - *off-site*
DEC Site No.: C828159A
Site Address: 691 & 705 St. Paul Street
Rochester, NY 14605
Monroe County

Hereinafter referred to as "Site"

by: **Bausch + Lomb**

Hereinafter referred to as "Respondent"

1. A. The New York State Department of Environmental Conservation ("Department") is responsible for inactive hazardous waste disposal site remedial programs pursuant to Article 27, Title 13 of the Environmental Conservation Law ("ECL") and Part 375 of Title 6 of the Official Compilation of Codes, Rules and Regulations ("6 NYCRR") and may issue orders consistent with the authority granted to the Commissioner by such statute.

B. The Department is responsible for carrying out the policy of the State of New York to conserve, improve and protect its natural resources and environment and control water, land, and air pollution consistent with the authority granted to the Department and the Commissioner by Article 1, Title 3 of the ECL.

C. This Order is issued pursuant to the Department's authority under, *inter alia*, ECL Article 27, Title 13 and ECL 3-0301, and resolves Respondent's liability to the State for the Matters Addressed in this Order, as provided at 6 NYCRR 375-1.5(b)(5).

2. Site C828159 (690 St. Paul Street) is located across St. Paul Street from the Site and is currently subject to a Brownfield Cleanup Agreement; the Department believes that contamination from 690 St. Paul Street may have potentially migrated and may potentially still be migrating onto the Site. Said contamination at the Site is not subject to investigation or remediation under the existing Brownfield Cleanup Agreement.

3. The Site subject to this Order has been assigned number C828159A, and consists of approximately 2 acres, including two buildings and parking lots and other land surrounding the buildings; its location is found on Tax Map/Parcel No.: Section 106 Subsection 53 Block 01 Lot 11, and with an address of 691 St. Paul Street, Rochester, NY 14605 and Tax Map/Parcel No.: Section 106 Subsection 45 Block 01 Lot 49, and with an address of 705 St. Paul Street, Rochester, NY 14605. A map depicting the Site is found at Exhibit A of this Order

4. Solely with regard to the Matters Addressed, as set forth below, Respondent hereby waives any right to a hearing as may be provided by law, consents to the issuance and entry of this Order, and agrees to be bound by its terms. Respondent consents to and agrees not to contest the authority or jurisdiction of the Department to issue or enforce this Order, and agrees not to contest the validity of this Order or its terms or the validity of data submitted to the Department by Respondent pursuant to this Order.

NOW, having considered this matter and being duly advised, **IT IS ORDERED THAT:**

I. Matters Addressed

Matters Addressed by this Order include:

(1) Respondent will develop and submit to the Department for its review and approval a soil vapor intrusion (SVI) investigation Work Plan for the two occupied buildings located at the Site (691 and 705 St. Paul Street), as more fully described below.

2) Respondent will implement the approved Work Plan.

(3) Respondent will submit to the Department a SVI report that describes the results of the SVI.

(4) Respondent will conduct any further work necessary to implement a remedial program should such a program be required by the Department following its review of the SVI report.

II. SVI Work Plan and Report

(1) The SVI Work Plan shall be submitted to the Department within sixty (60) days after the effective date of this Order. The SVI Work Plan shall provide a detailed description of the proposed work that shall include at a minimum sub-slab soil vapor and indoor air monitoring in the two buildings, outdoor air monitoring, and provide a schedule for performing the SVI.

(2) The SVI report shall be submitted to the Department for its review within sixty (60) days following the completion of the SVI investigation. The SVI report shall include a recommendation whether a remedial program should be conducted pursuant to 6 NYCRR §§375-1.8 & 2.8 to address SVI.

III. Remedial Program

(1) Should the Department determine that a remedial program is necessary to address SVI at the site, Respondent agrees to submit within sixty (60) days following the

Department's determination a Work Plan and a schedule to the Department for its review to conduct IRMs, Remedial Action(s), Site management or other measures to eliminate or minimize SVI at the Site.

(2) Once approved by the Department, Respondent agrees to implement the approved Work Plan on the schedule contained in the approved Work Plan.

IV. Site Access

The Department understands that the SVI and any subsequent remedial program will occur on property and in buildings not currently owned by Respondent. Respondent shall make all reasonable efforts to obtain access to the Site and the buildings so that the approved schedule can be met. If Respondent's efforts to obtain access to the Site and buildings are not successful, Respondent shall notify the Department and the Department will attempt to obtain said access. If the Department's attempt to obtain access is also unsuccessful, Respondent and the Department shall discuss how to conduct an alternative SVI without obtaining access to the Site and buildings.

V. Payment of State Costs

Respondent shall pay all state costs as set forth in Appendix "A". Invoices shall be sent to Respondent at the address stated below in ¶VI.A.2.

VI. Communications

A. All written communications required by this Consent Order shall be transmitted by United States Postal Service, by private courier service, by hand delivery, or by electronic mail.

1. Communication from Respondent shall be sent to:

Frank Sowers (1 hard copy (unbound for work plans) & 1 electronic copy)
Department of Environmental Conservation
Division of Environmental Remediation
6274 East Avon – Lima Road
Avon, NY 14414
frank.Sowers@dec.ny.gov

Krista Anders (electronic copy only)
New York State Department of Health
Empire State Plaza
Corning Tower Room 1787
Albany, NY 12237
krista.anders@health.ny.gov

2. Communication from the Department to Respondent shall be sent to:

Ms. Amy Butler and Mr. Frank Chiappone
Bausch + Lomb.
1400 N. Goodman Street
Rochester, NY 14609

B. The Department and Respondent reserve the right to designate additional or different addressees for communication on written notice to the other. Additionally, the Department reserves the right to request that the Respondent provide more than one paper copy of any work plan or report.

C. Each party shall notify the other within ninety (90) days after any change in the addresses listed in this paragraph or in Paragraph I.

VII. Miscellaneous

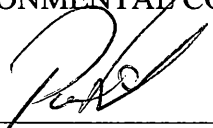
A. Appendix A – "Standard Clauses for All New York State Superfund Orders" is attached to and hereby made a part of this Order as if set forth fully herein.

B. In the event of a conflict between the terms of this Order (including any and all attachments thereto and amendments thereof) and the terms of Appendix A, the terms of this Order shall control.

C. The effective date of this Order is the 10th day after it is signed by the Commissioner or the Commissioner's designee.

DATED: *February 14, 2017*

BASIL SEGGOS,
COMMISSIONER
NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION


By: Robert W. Schick, P.E., Director
Division of Environmental Remediation

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of this Consent Order, waives Respondent's right to a hearing herein as provided by law, and agrees to be bound by this Consent Order.

BAUSCH + LOMB

By: Amy R. Butler

Title: V.P. Environment, Health, Safety + Sustainability

Date: 25 JAN '17

STATE OF NEW YORK)
) ss:
COUNTY OF)

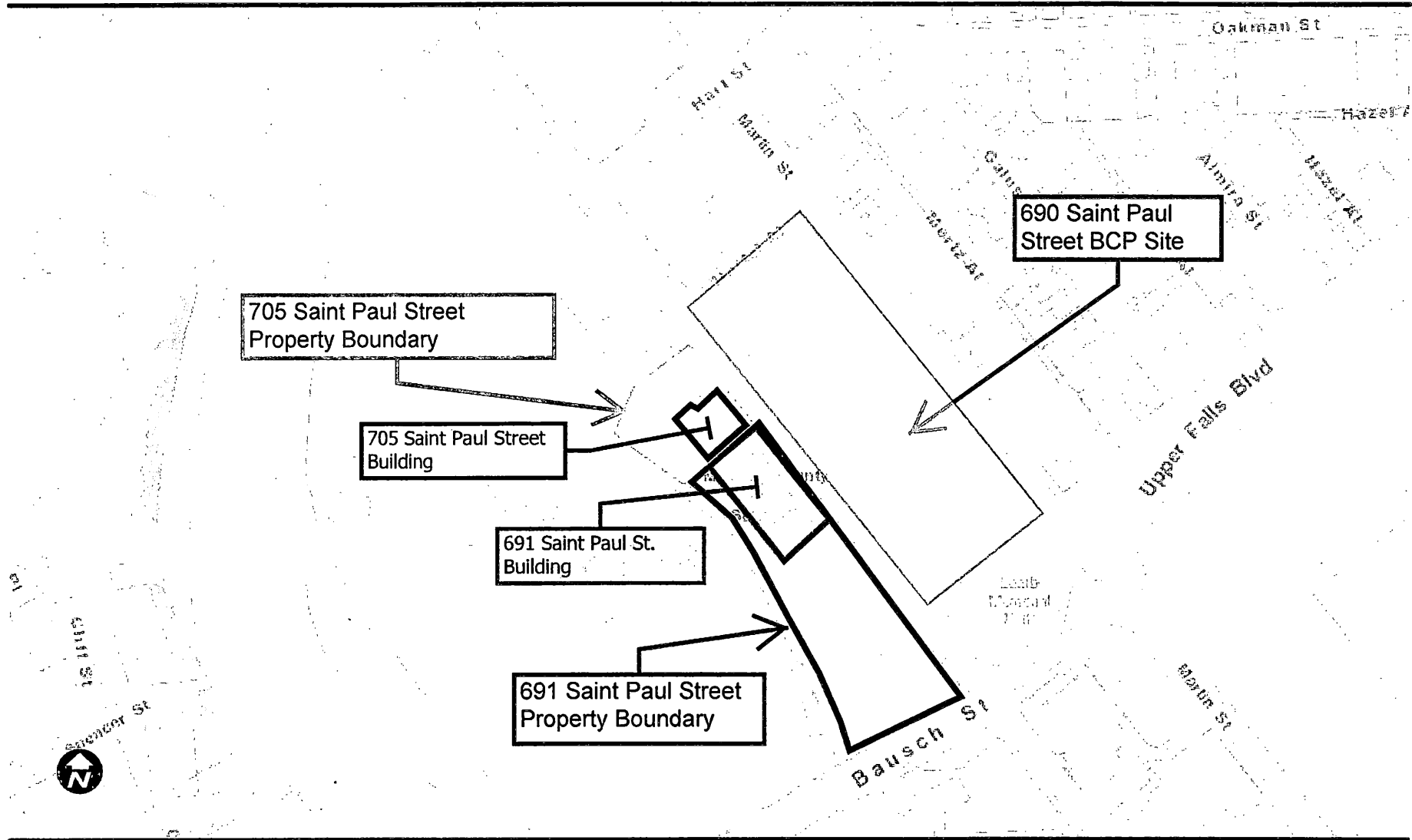
On the 25th day of January in the year 2017, before me, the undersigned, personally appeared Amy R. Butler (full name) personally known to me who, being duly sworn, did depose and say that he/she/they reside at 4789 Morrow Hill Rd., Canandaigua NY (full mailing address) and that he/she/they is (are) the Vice President (president or other officer or director or attorney in fact duly appointed) of the Bausch + Lomb (full legal name of corporation), the corporation described in and which executed the above instrument; and that he/she/they signed his/her/their name(s) thereto by the authority of the board of directors of said corporation.

Jennifer R. Hatch
Notary Public, State of New York

JENNIFER R. HATCH
Notary Public - State of New York
No. 01HA6111879
Qualified in Wyoming County
My Commission Expires June 28, 2020

EXHIBIT "A"

Map



May 18, 2015

This map is intended for general reference only.

The City of Rochester makes no representation as to the accuracy or fitness of the data presented.

City of Rochester, NY



City of Rochester, NY
Lovely A. Warren, Mayor

EXHIBIT "B"

RECORDS SEARCH REPORT

1. Detail all environmental data and information within Respondent's or Respondent's agents' or consultants' possession or control regarding environmental conditions at or emanating from the Site.
2. A comprehensive list of all existing relevant reports with titles, authors, and subject matter, as well as a description of the results of all previous investigations of the Site and of areas immediately surrounding the Site which are or might be affected by contamination at the Site, including all available topographic and property surveys, engineering studies, and aerial photographs.
3. A concise summary of information held by Respondent and Respondent's attorneys and consultants with respect to:
 - (i) a history and description of the Site, including the nature of operations;
 - (ii) the types, quantities, physical state, locations, methods, and dates of disposal or release of hazardous waste at or emanating from the Site;(iii)a description of current Site security (i.e. fencing, posting, etc.); and
 - (iii) the names and addresses of all persons responsible for disposal of hazardous waste, including the dates of such disposal and any proof linking each such person responsible with the hazardous wastes identified.

APPENDIX "A"

**STANDARD CLAUSES FOR ALL NEW YORK STATE
STATE SUPERFUND ORDERS**

STANDARD CLAUSES FOR ALL NEW YORK STATE SUPERFUND ADMINISTRATIVE ORDERS

The parties to the State Superfund Order (hereinafter "Order") agree to be bound by the following clauses which are hereby made a part of the Order. The word "Respondent" herein refers to any party to the Order, other than the New York State Department of Environmental Conservation (hereinafter "Department").

I. Citizen Participation Plan

Within twenty (20) days after the effective date of this Order, Respondent shall submit for review and approval a written citizen participation plan prepared in accordance with the requirements of ECL §27-1417 and 6 NYCRR sections 375-1.10 and 375-3.10. Upon approval, the Citizen Participation Plan shall be deemed to be incorporated into and made a part of this Order.

II. Initial Submittal

Within thirty (30) days after the effective date of this Order, Respondent shall submit to the Department a Records Search Report prepared in accordance with Exhibit "B" attached to the Order. The Records Search Report can be limited if the Department notifies Respondent that prior submissions satisfy specific items required for the Records Search Report.

III. Development, Performance, and Reporting of Work Plans

A. Work Plan Requirements

All activities at the Site that comprise any element of an Inactive Hazardous Waste Disposal Site Remedial Program shall be conducted pursuant to one or more Department-approved work plans ("Work Plan" or "Work Plans") and this Order and all activities shall be consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300, as required under CERCLA, 42 U.S.C. § 9600 *et seq.* The Work Plan(s) under this Order shall address both on-Site and off-Site conditions and shall be developed and implemented in accordance with 6 NYCRR § 375-1.6(a), 375-3.6, and 375-6. Subject to Subparagraph III.E.3., all Department-approved Work Plans shall

be incorporated into and become enforceable parts of this Order. Upon approval of a Work Plan by the Department, Respondent shall implement such Work Plan in accordance with the schedule contained therein. Nothing in this Subparagraph shall mandate that any particular Work Plan be submitted.

The Work Plans shall be captioned as follows:

1. Site Characterization ("SC") Work Plan: a Work Plan which provides for the identification of the presence of any hazardous waste disposal at the Site;

2. Remedial Investigation/Feasibility Study ("RI/FS") Work Plan: a Work Plan which provides for the investigation of the nature and extent of contamination within the boundaries of the Site and emanating from such Site and a study of remedial alternatives to address such on-site and off-site contamination;

3. Remedial Design/Remedial Action ("RD/RA") Work Plan: a Work Plan which provides for the development and implementation of final plans and specifications for implementing the remedial alternative set forth in the ROD;

4. "IRM Work Plan" if the Work Plan provides for an interim remedial measure;

5. "Site Management Plan" if the Work Plan provides for the identification and implementation of institutional and/or engineering controls as well as any necessary monitoring and/or operation and maintenance of the remedy; or

6. "Supplemental" if additional work plans other than those set forth in II.A.1-5 are required to be prepared and implemented.

B. Submission/Implementation of Work Plans

1. Respondent may opt to propose one or more additional or supplemental Work Plans (including one or more IRM Work Plans) at any time, which the Department shall review for appropriateness and technical sufficiency.

2. Any proposed Work Plan shall be submitted for the Department's review and approval and shall include, at a minimum, a chronological description of the anticipated activities, a schedule for performance of those activities, and sufficient detail to allow the Department to evaluate that Work Plan.

i. The Department shall notify Respondent in writing if the Department determines that any element of a Department-approved Work Plan needs to be modified in order to achieve the objectives of the Work Plan as set forth in Subparagraph III.A or to ensure that the Remedial Program otherwise protects human health and the environment. Upon receipt of such notification, Respondent shall, subject to dispute resolution pursuant to Paragraph XV, modify the Work Plan.

ii. The Department may request, subject to dispute resolution pursuant to Paragraph XV, that Respondent submit additional or supplemental Work Plans for the Site to complete the current remedial phase within thirty (30) Days after the Department's written request.

3. A Site Management Plan, if necessary, shall be submitted in accordance with the schedule set forth in the IRM Work Plan or Remedial Work Plan.

4. During all field activities conducted under a Department-approved Work Plan, Respondent shall have on-Site a representative who is qualified to supervise the activities undertaken in accordance with the provisions of 6 NYCRR 375-1.6(a)(3).

5. A Professional Engineer must stamp and sign all Work Plans other than SC or RI/FS Work Plans.

C. Submission of Final Reports and Periodic Reports

1. In accordance with the schedule contained in a Work Plan, Respondent shall submit a final report as provided at 6 NYCRR 375-1.6(b) and a final engineering report as provided at 6 NYCRR 375-1.6(c).

2. Any final report or final engineering report that includes construction activities shall include "as built" drawings showing any changes made to the remedial design or the IRM.

3. In the event that the final engineering report for the Site requires Site management, Respondent shall submit an initial periodic report by in accordance with the schedule in the Site Management Plan and thereafter in accordance with a schedule determined by the Department. Such periodic report shall be signed by a Professional Engineer or by such other qualified environmental professional as the Department may find acceptable and shall contain a certification as provided at 6 NYCRR 375-1.8(h)(3). Respondent may petition the Department for a determination that the institutional and/or engineering controls may be terminated. Such petition must be supported by a statement by a Professional Engineer that such controls are no longer necessary for the protection of public health and the environment. The Department shall not unreasonably withhold its approval of such petition.

4. Within sixty (60) days of the Department's approval of a Final Report, Respondent shall submit such additional Work Plans as is required by the Department in its approval letter of such Final Report. Failure to submit any additional Work Plans within such period shall be a violation of this Order.

D. Review of Submittals

1. The Department shall make a good faith effort to review and respond in writing to each submittal Respondent makes pursuant to this Order within sixty (60) Days. The Department's response shall include, in accordance with 6 NYCRR 375-1.6(d), an approval, modification request, or disapproval of the submittal, in whole or in part.

i. Subject to Subparagraph III.E.3 and upon the Department's written approval of a Work Plan, such Department-approved Work Plan shall be deemed to be incorporated into and made a part of this Order and shall be implemented in accordance with the schedule contained therein.

ii. If the Department modifies or requests modifications to a submittal, it shall specify the reasons for such modification(s). Within fifteen (15) Days after the date of the Department's written

notice that Respondent's submittal has been disapproved, Respondent shall notify the Department of its election in accordance with 6 NYCRR 375-1.6(d)(3). If Respondent elects to modify or accept the Department's modifications to the submittal, Respondent shall make a revised submittal that incorporates all of the Department's modifications to the first submittal in accordance with the time period set forth in 6 NYCRR 375-1.6(d)(3). In the event that Respondent's revised submittal is disapproved, the Department shall set forth its reasons for such disapproval in writing and Respondent shall be in violation of this Order unless it invokes dispute resolution pursuant to Paragraph XV and its position prevails. Failure to make an election or failure to comply with the election is a violation of this Order.

iii. If the Department disapproves a submittal, it shall specify the reasons for its disapproval. Within fifteen (15) Days after the date of the Department's written notice that Respondent's submittal has been disapproved, Respondent shall notify the Department of its election in accordance with 6 NYCRR 375-1.6(d)(4). If Respondent elects to modify the submittal, Respondent shall make a revised submittal that addresses all of the Department's stated reasons for disapproving the first submittal in accordance with the time period set forth in 6 NYCRR 375-1.6(d)(4). In the event that Respondent's revised submittal is disapproved, the Department shall set forth its reasons for such disapproval in writing and Respondent shall be in violation of this Order unless it invokes dispute resolution pursuant to Paragraph XV and its position prevails. Failure to make an election or failure to comply with the election is a violation of this Order.

2. Within thirty (30) Days after the Department's approval of a final report, Respondent shall submit such final report, as well as all data gathered and drawings and submittals made pursuant to such Work Plan, in an electronic format acceptable to the Department. If any document cannot be converted into electronic format, Respondent shall submit such document in an alternative format acceptable to the Department.

E. Department's Issuance of a ROD

1. Respondent shall cooperate with the Department and provide reasonable assistance, consistent with the Citizen Participation Plan, in soliciting public comment on the proposed remedial

action plan ("PRAP"), if any. After the close of the public comment period, the Department shall select a final remedial alternative for the Site in a ROD. Nothing in this Order shall be construed to abridge any rights of Respondent, as provided by law, to judicially challenge the Department's ROD.

2. Respondent shall have 60 days from the date of the Department's issuance of the ROD to notify the Department in writing whether it will implement the remedial activities required by such ROD. If the Respondent elects not to implement the required remedial activities, then this order shall terminate in accordance with Paragraph XIV.A. Failure to make an election or failure to comply with the election is a violation of this Order.

3. Nothing in this Order, in any submittal, or in any work plan(s) submitted pursuant to this Order shall modify, expand, reduce, or otherwise change the remedial activities (including site management) required by a ROD issued by the Department.

F. Institutional/Engineering Control Certification

In the event that the remedy for the Site, if any, or any Work Plan for the Site, requires institutional or engineering controls, Respondent shall submit a written certification in accordance with 6 NYCRR 375-1.8(h)(3) and 375-3.8(h)(2).

IV. Penalties

A. 1. Respondent's failure to comply with any term of this Order constitutes a violation of this Order, the ECL, and 6 NYCRR 375-2.11(a)(4). Nothing herein abridges Respondent's right to contest any allegation that it has failed to comply with this Order.

2. Payment of any penalties shall not in any way alter Respondent's obligations under this Order.

B. 1. Respondent shall not suffer any penalty or be subject to any proceeding or action in the event it cannot comply with any requirement of this Order as a result of any Force Majeure Event as provided at 6 NYCRR 375-1.5(b)(4). Respondent must use best efforts to anticipate the potential Force Majeure Event, best efforts to address any such event as it is

occurring, and best efforts following the Force Majeure Event to minimize delay to the greatest extent possible. "Force Majeure" does not include Respondent's economic inability to comply with any obligation, the failure of Respondent to make complete and timely application for any required approval or permit, and non-attainment of the goals, standards, and requirements of this Order.

2. Respondent shall notify the Department in writing within five (5) Days of the onset of any Force Majeure Event. Failure to give such notice within such five (5) Day period constitutes a waiver of any claim that a delay is not subject to penalties. Respondent shall be deemed to know of any circumstance which it, any entity controlled by it, or its contractors knew or should have known.

3. Respondent shall have the burden of proving by a preponderance of the evidence that (i) the delay or anticipated delay has been or will be caused by a Force Majeure Event; (ii) the duration of the delay or the extension sought is warranted under the circumstances; (iii) best efforts were exercised to avoid and mitigate the effects of the delay; and (iv) Respondent complied with the requirements of Subparagraph IV.B.2 regarding timely notification.

4. If the Department agrees that the delay or anticipated delay is attributable to a Force Majeure Event, the time for performance of the obligations that are affected by the Force Majeure Event shall be extended for a period of time equivalent to the time lost because of the Force majeure event, in accordance with 375-1.5(4).

5. If the Department rejects Respondent's assertion that an event provides a defense to non-compliance with this Order pursuant to Subparagraph IV.B, Respondent shall be in violation of this Order unless it invokes dispute resolution pursuant to Paragraph XV and Respondent's position prevails.

V. Entry upon Site

A. Respondent hereby consents, upon reasonable notice under the circumstances presented, to entry upon the Site (or areas in the vicinity of the Site which may be under the control of Respondent) by any duly designated officer or employee of the Department or any State agency having jurisdiction with respect to matters addressed pursuant to this Order, and by any agent, consultant, contractor, or

other person so authorized by the Commissioner, all of whom shall abide by the health and safety rules in effect for the Site, for inspecting, sampling, copying records related to the contamination at the Site, testing, and any other activities necessary to ensure Respondent's compliance with this Order. Upon request, Respondent shall (i) provide the Department with suitable work space at the Site, including access to a telephone, to the extent available, and (ii) permit the Department full access to all non-privileged records relating to matters addressed by this Order. Raw data is not considered privileged and that portion of any privileged document containing raw data must be provided to the Department. In the event Respondent is unable to obtain any authorization from third-party property owners necessary to perform its obligations under this Order, the Department may, consistent with its legal authority, assist in obtaining such authorizations.

B. The Department shall have the right to take its own samples and scientific measurements and the Department and Respondent shall each have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled. The Department shall make the results of any such sampling and scientific measurements available to Respondent.

VI. Payment of State Costs

A. Within sixty (60) days after receipt of an itemized invoice from the Department, Respondent shall pay to the Department a sum of money which shall represent reimbursement for State Costs as provided by 6 NYCRR 375-1.5 (b)(3)(i). Failure to timely pay any invoice will be subject to late payment charge and interest at a rate of 9% from the date the payment is due until the date the payment is made.

B. Costs shall be documented as provided by 6 NYCRR 375-1.5(b)(3). The Department shall not be required to provide any other documentation of costs, provided however, that the Department's records shall be available consistent with, and in accordance with, Article 6 of the Public Officers Law.

C. Each such payment shall be made payable to the New York State Department of Environmental Conservation and shall be sent to:

Director, Bureau of Program Management

Division of Environmental Remediation
New York State Department of Environmental
Conservation
625 Broadway
Albany, New York 12233-7012

D. The Department shall provide written notification to the Respondent of any change in the foregoing addresses.

E. If Respondent objects to any invoiced costs under this Order, the provisions of 6 NYCRR 375-1.5 (b)(3)(v) and (vi) shall apply. Objections shall be sent to the Department as provided under subparagraph VI.C above.

F. In the event of non-payment of any invoice within the 45 days provided herein, the Department may seek enforcement of this provision pursuant to Paragraph IV or the Department may commence an enforcement action for non-compliance with ECL '27-1423 and ECL 71-4003.

VII. Release and Covenant Not to Sue

Upon the Department's issuance of a Certificate of Completion as provided at 6 NYCRR 375-1.9 and 375-2.9, Respondent shall obtain the benefits conferred by such provisions, subject to the terms and conditions described therein.

VIII. Reservation of Rights

A. Except as provided at 6 NYCRR 375-1.9 and 375-2.9, nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights or authorities, including, but not limited to, the right to require performance of further investigations and/or response action(s), to recover natural resource damages, and/or to exercise any summary abatement powers with respect to any person, including Respondent.

B. Except as otherwise provided in this Order, Respondent specifically reserves all rights and defenses under applicable law respecting any Departmental assertion of remedial liability and/or natural resource damages against Respondent, and further reserves all rights respecting the enforcement of this Order, including the rights to notice, to be heard, to appeal, and to any other due process. The existence of this Order or Respondent's compliance

with it shall not be construed as an admission of liability, fault, wrongdoing, or breach of standard of care by Respondent, and shall not give rise to any presumption of law or finding of fact, or create any rights, or grant any cause of action, which shall inure to the benefit of any third party. Further, Respondent reserves such rights as it may have to seek and obtain contribution, indemnification, and/or any other form of recovery from its insurers and from other potentially responsible parties or their insurers for past or future response and/or cleanup costs or such other costs or damages arising from the contamination at the Site as may be provided by law, including but not limited to rights of contribution under section 113(f)(3)(B) of CERCLA, 42 U.S.C. § 9613(f)(3)(B).

IX. Indemnification

Respondent shall indemnify and hold the Department, the State of New York, the Trustee of the State's natural resources, and their representatives and employees harmless as provided by 6 NYCRR 375-2.5(a)(3)(i).

X. Public Notice

A. Within thirty (30) Days after the effective date of this Order, Respondent shall provide notice as required by 6 NYCRR 375-1.5(a). Within sixty (60) Days of such filing, Respondent shall provide the Department with a copy of such instrument certified by the recording officer to be a true and faithful copy.

B. If Respondent proposes to transfer by sale or lease the whole or any part of Respondent's interest in the Site, or becomes aware of such transfer, Respondent shall, not fewer than forty-five (45) Days before the date of transfer, or within forty-five (45) Days after becoming aware of such conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed or actual date of the conveyance, and shall notify the transferee in writing, with a copy to the Department, of the applicability of this Order. However, such obligation shall not extend to a conveyance by means of a corporate reorganization or merger or the granting of any rights under any mortgage, deed, trust, assignment, judgment, lien, pledge, security agreement, lease, or any other right accruing to a person not affiliated with Respondent to secure the repayment of money or the performance of a duty or obligation.

XI. Change of Use

Applicant shall notify the Department at least sixty (60) days in advance of any change of use, as defined in 6 NYCRR 375-2.2(a), which is proposed for the Site, in accordance with the provisions of 6 NYCRR 375-1.11(d). In the event the Department determines that the proposed change of use is prohibited, the Department shall notify Applicant of such determination within forty-five (45) days of receipt of such notice.

XII. Environmental Easement

A. If a Record of Decision for the Site relies upon one or more institutional and/or engineering controls, Respondent (or the owner of the Site) shall submit to the Department for approval an Environmental Easement to run with the land in favor of the State which complies with the requirements of ECL Article 71, Title 36, and 6 NYCRR 375-1.8(h)(2). Upon acceptance of the Environmental Easement by the State, Respondent shall comply with the requirements of 6 NYCRR 375-1.8(h)(2).

B. If the ROD provides for no action other than implementation of one or more institutional controls, Respondent shall cause an environmental easement to be recorded under the provisions of Subparagraph XII.A.

C. If Respondent does not cause such environmental easement to be recorded in accordance with 6 NYCRR 375-1.8(h)(2), Respondent will not be entitled to the benefits conferred by 6 NYCRR 375-1.9 and 375-2.9 and the Department may file an Environmental Notice on the site.

XIII. Progress Reports

Respondent shall submit a written progress report of its actions under this Order to the parties identified in Subparagraph IV.A.1 of the Order by the 10th day of each month commencing with the month subsequent to the approval of the first Work Plan and ending with the Termination date as set forth in Paragraph XIV, unless a different frequency is set forth in a Work Plan. Such reports shall, at a minimum, include: all actions relative to the Site during the previous reporting period and those anticipated for the next reporting period; all approved activity modifications (changes of work scope and/or

schedule); all results of sampling and tests and all other data received or generated by or on behalf of Respondent in connection with this Site, whether under this Order or otherwise, in the previous reporting period, including quality assurance/quality control information; information regarding percentage of completion; unresolved delays encountered or anticipated that may affect the future schedule and efforts made to mitigate such delays; and information regarding activities undertaken in support of the Citizen Participation Plan during the previous reporting period and those anticipated for the next reporting period.

XIV. Termination of Order

A. This Order will terminate upon the earlier of the following events:

1. Respondent's election in accordance with Paragraph III.E.2 not to implement the remedial activities required pursuant to the ROD. In the event of termination in accordance with this Subparagraph, this Order shall terminate effective the 5th Day after the Department's receipt of the written notification, provided, however, that if there are one or more Work Plan(s) for which a final report has not been approved at the time of Respondent's notification of its election not to implement the remedial activities in accordance with the ROD, Respondent shall complete the activities required by such previously approved Work Plan(s) consistent with the schedules contained therein. Thereafter, this Order shall terminate effective the 5th Day after the Department's approval of the final report for all previously approved Work Plans; or

2. The Department's written determination that Respondent has completed all phases of the Remedial Program (including Site Management), in which event the termination shall be effective on the 5th Day after the date of the Department's letter stating that all phases of the remedial program have been completed.

B. Notwithstanding the foregoing, the provisions contained in Paragraphs VI and IX shall survive the termination of this Order and any violation of such surviving Paragraphs shall be a violation of this Order, the ECL, and 6 NYCRR 375-2.11(a)(4), subjecting Respondent to penalties as provided under Paragraph IV so long as such

obligations accrued on or prior to the Termination Date.

C. If the Order is terminated pursuant to Subparagraph XIV.A.1, neither this Order nor its termination shall affect any liability of Respondent for remediation of the Site and/or for payment of State Costs, including implementation of removal and remedial actions, interest, enforcement, and any and all other response costs as defined under CERCLA, nor shall it affect any defenses to such liability that may be asserted by Respondent. Respondent shall also ensure that it does not leave the Site in a condition, from the perspective of human health and environmental protection, worse than that which existed before any activities under this Order were commenced. Further, the Department's efforts in obtaining and overseeing compliance with this Order shall constitute reasonable efforts under law to obtain a voluntary commitment from Respondent for any further activities to be undertaken as part of a Remedial Program for the Site.

XV. Dispute Resolution

A. In the event disputes arise under this Order, Respondent may, within fifteen (15) Days after Respondent knew or should have known of the facts which are the basis of the dispute, initiate dispute resolution in accordance with the provisions of 6 NYCRR 375-1.5(b)(2).

B. All cost incurred by the Department associated with dispute resolution are State costs subject to reimbursement pursuant to this Order.

C. Nothing contained in this Order shall be construed to authorize Respondent to invoke dispute resolution with respect to the remedy selected by the Department in the ROD or any element of such remedy, nor to impair any right of Respondent to seek judicial review of the Department's selection of any remedy.

XVI. Miscellaneous

A. Respondent agrees to comply with and be bound by the provisions of 6 NYCRR Subparts 375-1 and 375-2; the provisions of such Subparts that are referenced herein are referenced for clarity and convenience only and the failure of this Order to specifically reference any particular regulatory provision is not intended to imply that such provision

is not applicable to activities performed under this Order.

B. The Department may exempt Respondent from the requirement to obtain any state or local permit or other authorization for any activity conducted pursuant to this Order in accordance with 6 NYCRR 375-1.12(b), (c), and (d).

C. 1. Respondent shall use best efforts to obtain all Site access, permits, easements, approvals, institutional controls, and/or authorizations necessary to perform Respondent's obligations under this Order, including all Department-approved Work Plans and the schedules contained therein. If, despite Respondent's best efforts, any access, permits, easements, approvals, institutional controls, or authorizations cannot be obtained, Respondent shall promptly notify the Department and include a summary of the steps taken. The Department may, as it deems appropriate and within its authority, assist Respondent in obtaining same.

2. If an interest in property is needed to implement an institutional control required by a Work Plan and such interest cannot be obtained, the Department may require Respondent to modify the Work Plan pursuant to 6 NYCRR 375-1.6(d)(3) to reflect changes necessitated by Respondent's inability to obtain such interest.

D. The paragraph headings set forth in this Order are included for convenience of reference only and shall be disregarded in the construction and interpretation of any provisions of this Order.

E. 1. The terms of this Order shall constitute the complete and entire agreement between the Department and Respondent concerning the implementation of the activities required by this Order. No term, condition, understanding, or agreement purporting to modify or vary any term of this Order shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department shall be construed as relieving Respondent of Respondent's obligation to obtain such formal approvals as may be required by this Order. In the event of a conflict between the terms of this Order and any Work Plan submitted pursuant to this Order, the terms of this Order shall control over the terms of the Work Plan(s). Respondent consents to and agrees not to contest the authority and

jurisdiction of the Department to enter into or enforce this Order.

2. i. Except as set forth herein, if Respondent desires that any provision of this Order be changed, Respondent shall make timely written application to the Commissioner with copies to the parties listed in Subparagraph IV.A.1.

ii. If Respondent seeks to modify an approved Work Plan, a written request shall be made to the Department's project manager, with copies to the parties listed in Subparagraph IV.A.1.

iii. Requests for a change to a time frame set forth in this Order shall be made in writing to the Department's project attorney and project manager; such requests shall not be unreasonably denied and a written response to such requests shall be sent to Respondent promptly.

F. 1. If there are multiple parties signing this Order, the term "Respondent" shall be read in the plural, the obligations of each such party under this Order are joint and several, and the insolvency of or failure by any Respondent to implement any obligations under this Order shall not affect the obligations of the remaining Respondent(s) under this Order.

2. If Respondent is a partnership, the obligations of all general partners (including limited partners who act as general partners) under this Order are joint and several and the insolvency or failure of any general partner to implement any obligations under this Order shall not affect the obligations of the remaining partner(s) under this Order.

3. Notwithstanding the foregoing Subparagraphs XVI.F.1 and 2, if multiple parties sign this Order as Respondents but not all of the signing parties elect to implement a Work Plan, all Respondents are jointly and severally liable for each and every obligation under this Order through the completion of activities in such Work Plan that all such parties consented to; thereafter, only those Respondents electing to perform additional work shall be jointly and severally liable under this Order for the obligations and activities under such additional Work Plan(s). The parties electing not to

implement the additional Work Plan(s) shall have no obligations under this Order relative to the activities set forth in such Work Plan(s). Further, only those Respondents electing to implement such additional Work Plan(s) shall be eligible to receive the release and covenant not to sue referenced in Paragraph VII.

G. Respondent shall be entitled to receive contribution protection and/or to seek contribution to the extent authorized by ECL 27-1421(6) and 6 NYCRR 375-1.5(b)(5).

H. Any time limitations set forth in Section 113(g)(1) of CERCLA, as amended, 42 U.S.C. § 9613(g)(1), Section 1012(h)(2) of the Oil Pollution Act, as amended, 33 U.S.C. § 2712(h)(2), the Federal Water Pollution Control Act, the New York Navigation Law, the New York Environmental Conservation Law, or any other federal or state statute or regulation with respect to potential claims for natural resource damages against Respondent or any other time limitations for the filing of potential natural resource damages claims against Respondent under any other applicable state or federal law are tolled in their entirety from the effective date of this Order until termination of this Order.

I. Unless otherwise expressly provided herein, terms used in this Order which are defined in ECL Article 27 or in regulations promulgated thereunder shall have the meaning assigned to them under said statute or regulations.

J. Respondent's obligations under this Order represent payment for or reimbursement of response costs, and shall not be deemed to constitute any type of fine or penalty.

K. Respondent and Respondent's successors and assigns shall be bound by this Order. Any change in ownership or corporate status of Respondent shall in no way alter Respondent's responsibilities under this Order.

L. This Order may be executed for the convenience of the parties hereto, individually or in combination, in one or more counterparts, each of which shall be deemed to have the status of an executed original and all of which shall together constitute one and the same.



APPENDIX 2

Electronic Copy of Construction Completion Report



APPENDIX 3

Community Air Monitoring Plan Data

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK

SE of 10.5th
PARTICULATE AND VOC MONITORING
 DATE: 12/4/17

insult
 1
 22/1/17

Time	Wind Direction	Upwind			Downwind <i>(LaBelle-2)</i>			Work Area
		Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOC ppb	Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	VOCs ppb
7:29	NW	Baseline	0.05	228	M/W of point	0.03	365	3,209
7:40	NW	Site	0.06	361	Site	0.07	378	759
7:53	"	"	0.054	383	"	0.070	385	400
8:01	"	15' E of S	0.08	484	15' E of S	0.07	342	586
8:11	"	"	0.080	356	"	0.071	362	415

PA5
 Direct
 700 wa
 - 8,400
 Directly
 wet

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: small varnish + lacquer from wood working activities contributing to background VOCs

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
 DATE: 12/13/17

log
etc

Time	Wind Direction	Upwind			Location	Downwind			Work Area
		Location	Particulates	VOCs		Location	Particulates	VOCs	
			($\mu\text{g}/\text{m}^3$)	ppb			($\mu\text{g}/\text{m}^3$)	ppb	
10:23	N/A	H16-11	0.137	324	F-6	0.044	299	289	
10:25	N/A	"	0.098	314		0.024	287	290	
10:	"	"	0.080	298		0.062	278	264	

Calibration - TSI DustTrak Model 8520 Particulate Meter				
Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	

Calibration - Photoionization Detector			
Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: Drilling testing holes + porcupine

See map on back for location information.

Job Basement

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
DATE: 12/14/17

Background

pre 9:00
post

stop
F/turn

count
all
open

stair
all
open

any
open

Back
P20
671

Time	Wind Direction	Upwind - D-2		Downwind		Work Area		
		Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	VOCs ppb
11:10	N1/2	Near boiler	0.051	915	Down to stair	0.801	702	861
11:15			0.076	721		0.096	741	882
11:20			0.047	713		0.860	775	830
11:25			0.702	727		1.54	826	870
11:30			0.344	741		0.939	749	810
→ E plus zone due cement / glue is being applied to piping during the while drilling is occurring.								
35			0.274	1840		0.388	1221	1481
11:40			0.751	1108		0.751	1860	1490
45			0.148	3647		0.145	4306	3753
807			0.193	2641		1.68	2348	2760
12:00			0.490	2415		0.357	2392	2590
12:45			0.344	2985		0.376	2094	2050
1:00			0.17	0.054		0.170	914	824
1:15			0.64	2.03		0.070	823	831
1:30			0.650	0.320		0.117	684	643
→ created + sealed w/ PVC Kiser CAAP ceased								
1:46	N1/4	E11	0.092	614	E10	0.060	580	575
2:30			0.190	559		0.102	594	599
			0.170	520		0.061	577	612
hole closed w/ cover @ 2:30								

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: Penetration in hallway
 ⊗ - filter fell off + dust traces when + to 9.34 + 9.25
 (background) seen - Stop in red + vacuum used to start
 sucking up air particulates - waited till dust traces went below
 before starting to continue penetrations.

High VOC readings are from PVC cement used in enclosed space
 - no VOC detection during original penetration of 5:00am
 vacuum used to collect dust created from drilling.

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
DATE: 12/14

Background 203
 post 376

Time	Wind Direction	Upwind D-2			Downwind			Work Area
		Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOC ppb	Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOC ppb	VOC ppb
2:55	—	E13(E)	0.021	387	E13(W)	0.071	410	398
3:05	—	"	0.035	378	"	0.066	401	407
3:15	—	"	0.029	352	"	0.033	353	374
3:20								
→ hole sealed + all equipment to B17 Rm for next pt.								
Up/DW Setup inside room								
3:27		B17(W)	0.024	429	B17(E)	0.120	421	431
3:35			0.541	431		1.06	429	434
3:40			0.143	365		0.864	401	379
3:45			0.073	337		0.057	332	349
→ Parked @ 3:47								
workers off-site								

Pre-4
 post-8
 BK

Calibration - TSI DustTrak Model 8520 Particulate Meter				
Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	

Calibration - Photoionization Detector			
Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: In hallway of B17 -
 Cone ~ up in this area.

See map on back for location information.

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
DATE: 12/15/17

pollutant - in the container reads 150 ppm - Background - #38

Time	Wind Direction	Location	Upwind Inside Rm		Location	Downwind Hallway		Work Area
			Particulates ($\mu\text{g}/\text{m}^3$)	VOCs (ppb)		Particulates ($\mu\text{g}/\text{m}^3$)	VOCs (ppb)	VOCs (ppb)
11:00 AM	N/A	F/G-12	0.212	2,802	G-13	0.206	2,247	2441
11:15	N/A	"	0.732	1,932	"	0.386	3,261	1914
11:30			0.074	1,350		0.028	1,595	780
→ hole plugged - Camp ceased until hex penetration								
VOC readings cont'd								
11:50		"	0.093	1,108	"	0.039	7,106	1,257
12:05			0.197	1,954		0.279	986	706
12:20			0.076	853		0.190	346	466
12:35			0.068	623		0.145	470	876
12:50			0.149	1,880		0.056	311	1,125
1:05			0.259	1,001		0.089	760	1,083
1:20			0.601	2,125		0.288	895	730
1:28 → Camp ceased as hole has been patched w/ conc + PVC connected								

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities:

*Acc coming out of penetration - 326 ppb
 - no VOC readings associated w/ during (pen) → Penetration entered into Crawlspace - going to have to find a new spot for the penetration.
 Operator present during second penetrations well.
 All conc + sub slab work put in Drum.
 Electric Generators running have petroleum based lubricants in Room plus PVC glue - adding to background readings*

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
 DATE: 12/21

Time	Wind Direction	Upwind			Downwind			Work Area
		Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	VOCs ppb
9:55	In +	Loading dock	0.049	222	E E of Ext 10	0.019	172	144
10:05		17' S of Ext Door	0.029	190	Door	0.029	213	205
→ Drilling ceased + hole kicked in floor + tape down								

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: Penetrating loading dock floor to see
if there are possibility of putting clean/section
point in floor.

note - Gas can (3 Gallon) V4 present in corner in/lean now
background PID = 78
wind whip of leaf blower - Gas powered
- affecting Background Reading

See map on back for location information. Initial VOC release 8,692
@ 5' = 370

DAILY COMMUNITY AIR MONITORING LOG
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
 DATE: 1/14/18

close to open PVC glue @ 10:45

5 ft
2 ft
1 ft
gla
705
top
illing

Time	Wind Direction	Upwind			Downwind D-2			Work Area
		Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	Location	Particulates ($\mu\text{g}/\text{m}^3$)	VOCs ppb	VOCs ppb
10:00	N/A	NW Corner	0.079	2,032	10' N Door	0.018	1,985	2,207
10:15			0.160	1,980		0.176	2,146	2,650
10:30			0.147	2,486		0.201	2,956	2,850
10:45	B		0.184	3,891		0.207	4,762	3,556
		Base sealed by 10:45						
		Testing point installation (N/A) + VOC monitoring						
11:00		Storage Room	0.137	4,635		0.110	4,629	4,607
11:10			0.158	1,250		0.207	1,755	1,809
11:15			0.158	1,358		0.544	1,326	1,982
11:30		PT in Center						
12:00			0.057	3,857		0.144	4,969	5,040
17:04	Done							

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	
		mg/m^3	mg/m^3	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: PVC glue used in work area w/ in 5 mg - elevated background readings.
 No release noted @ initial penetration
 No dust created as hole penetration is drilled - vacuum used
 Alarm on P50 - was kept @ 10:27 due to PVC cement.

Vapor point by NW Corner of Room installed + sealed by:

See map on back for location information.
 Also in Room, Gross Glaze + T PVC glue.

(DAILY COMMUNITY AIR MONITORING LOG)
NYSDEC BCP SITE #C828159A, 691 SAINT PAUL STREET, ROCHESTER, NEW YORK
PARTICULATE AND VOC MONITORING
DATE: ~~12/8/17~~ 1/8/17

Time	Wind Direction	Upwind			Downwind			Work Area
		Location	Particulates	ppb	Location	Particulates	VOCs	VOCs
			($\mu\text{g}/\text{m}^3$)	(ppm)		($\mu\text{g}/\text{m}^3$)	ppb	ppb
10:22	---	South wall	0.034	36	South wall	0.025	51	88
11:42	N/A	B5	0.092	4326	B5	0.082	238	778
11:57	-	T5	0.098	4153	B5	0.387	1,486	6,897
12:12	-	C5	0.027	2,468	B5	0.217	2,187	4,346
12:27	-	"	0.117	5,872	"	0.229	4,680	6,986
- hole sealed + system in fault -								
		West of B9			East of B9			
1:30		"	0.029	267	"	0.14	3,386	3,310
1:45		"	0.029	631	"	0.019	700	616
2:00		"			"			

4,740
- A
- the
- re
- apply

old

Calibration - TSI DustTrak Model 8520 Particulate Meter

Time	Serial Number	With Zero Air Filter	Background	Location
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	
		mg/m ³	mg/m ³	

Calibration - Photoionization Detector

Time	Model	Serial Number	Zero (Ambient) Air
			PPM
			PPM
			PPM

Notes/Activities: ~~Coming thru South wall to connect to St. Michaels, Background PFD 03~~
~~Coming thru back wall~~
 Coming thru BT up Hallway.
 Work area has freshly applied pvc glue -
 high PFD readings
 Downwind - a large pathway
 Upwind - towards downway (1/2)

See map on back for location information.



APPENDIX 4

Daily Reports

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/4/2017

Project No: 2170820

Temperature: 32 F

Client: Bausch & Lomb

Weather: Partly Cloudy

Summary of Daily Activities:

J. Lanz (LaBella), M. Pelychaty (LaBella), Scott Miller (NYSDEC) and Mit Tech all on-Site at 691 at 13:30 for Site walk and security check in.

Walking basement and sub-basement and moving around the building reviewing areas SSDS lines will be moving through.

2:00 preparing to drill – CAMP monitors set up. Review camp logs for data. Drilling being conducted in St. Michaels woodshop area. Numerous lacquers, varnishes and wood finishing materials present along eastern wall. Wood working activities being conducted at time of drilling – particulate wood dust present in air, however it is not affecting dust monitoring readings.

3:11 – Drilling finished. Holes patched with hard plastic cover and caulking. No VOC or Dust exceedances occurred during drilling.

J. Lanz and Mit Tech – off-Site at 4:30.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/6/2017

Project No: 2170820

Temperature: 24 F

Client: Bausch & Lomb

Weather: Cloudy

Summary of Daily Activities:

J. Lanz – on-Site at 12:00am.

M.Pelychaty on-Site conducting air monitoring and VOC monitoring.

Meeting at 2:00pm with 705 St. Paul building owner Brian Grove. Figuring out areas to install vapor points in the 705 property basement and sub basement. Also working out access issues as some machines in this property can not be run at the same time as hammer drill.

Meeting completed and workers back to St. Michaels at 3:00pm. Patching concrete holes and filling in around PVC risers with concrete in holes penetrated today. Put two holes in along SSDS-1 system in basement. All holes sealed and CAMP turned off at 3:15pm post meeting. Work area cleaned and laborers and J. Lanz – off-Site at 3:30pm.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/7/2017

Project No: 2170820

Temperature: 35 F

Client: Bausch & Lomb

Weather: Partly Cloudy

Summary of Daily Activities:

J. Lanz – on-Site at 8:45am. Mit tech on-Site at same time. Laborers on-Site at 9:30 with equipment and tools. Staging equipment and materials in Conference room on Basement 1 and in St. Michaels woodshop.

11:00 – installing ceiling hanger bolts to connect hangers in northwest corner of St. Michaels woodshop.

Cleaning St. Michaels work area and preparing piping and materials to be installed.

12:00 – mobilized to 705 St. Paul portion of building. Working on first penetration with hammer drill. Background reading – 124 ppb. CAMP monitors deployed and turned on along with PPB ray.

Scott Miller (NYSDEC) on-Site at 11:45 am. Drilling hole against wall corner at 12:20.

Ceiling brackets installed. Pressure tests reading show negative pressure achieved. Second hole penetration begins at 1:12pm in west/south corner of the storage unit. 12” of concrete and into bedrock/dirt. Core hit abandon piping. Hole moved north 1.5 feet and redrilled.

First hole patched with fiberglass cover and caulking. No exceedances in dust track or VOC monitoring during installation process. Second penetration has been finished and concrete used to fill original penetration location. All holes being covered at remobilizing to St. Michaels woodshop area for pipe shipment. Air monitoring ceased at 2:35 pm.

J. Lanz – off-Site at 4:00pm.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/8/2017

Project No: 2170820

Temperature: 25 F

Client: Bausch & Lomb

Weather: Snow/Cloudy

Summary of Daily Activities:

J. Lanz – on-Site at 9:00.

Mit tech measuring out area for hole penetration through wall separating 691 and 705 St. Paul. Penetration. Area found and penetration made prior to installing piping in 705 portion of building. Background VOC readings taken 63 ppb.

10:25 – Scott Miller (NYSDEC) on-Site.

Installing SSDS-1 along wall and connecting piping from St. Michaels woodshop through to 705 St. Paul St. PVC glue used to connect the PVC piping is making the PPB rae read around 2-3000 PPB. SSDS-1 installed to vapor point and run along through the south wall connecting to St. Michaels.

12:30 – installing SSDS-2 system. From the vapor point to penetration in southern wall connecting to St. Michaels woodshop.

All SSDS-1 and SSDS-2 piping has been installed in 705 St. Paul sub basement using 3” and 4” piping. 4” piping to be used and eventually transition to 6” pipe run.

J. Lanz – off-Site at 3:45pm.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/12/2017

Project No: 2170820

Temperature: 20 F

Client: Bausch & Lomb

Weather: Snow

Summary of Daily Activities:

J. Lanz – on-Site at 8:30am. Mit Tech on-Site at 9:00am.

Scott Williams (NYSDEC) on-Site at 9:30am. Today piping in wood shop will be connected and run out into lobby south of woodshop. J. Lanz will be notified by Aaron (MitTech) if any sub-slab penetrations are to be conducted. No penetrations are anticipated for the rest of the week. No work to be done in woodshop while there are students inside working. Laborers preparing to seal eastern wall with grout.

Nick (MitTech) stats that brushing of eastern interior wall of Woodshop will occur prior to sealing. Sealing will be done with mortar first to patch all large holes and then epoxy seal (DryLok) will be used to cover the whole wall. Waiting for approval of use of Dry Lok from NYSDEC at this time.

J. Lanz – off-Site at 11:00 am.

J. Lanz – on-Site at 2:30 pm. Received notification from Frank Sowers (NYSDEC) that LaBella personnel must be on-Site during any construction activities related to the installation of the subslab systems at 691 and 705 St. Paul St.

Workers currently patching wall with grout and installing SSDS-1 and SSDS-2 inside of St. Michaels woodshop.

Bob and Aaron (Mit Tech) off-Site at 3:00pm. Laborers off-Site at 4:00pm.

J. Lanz – off-Site at 4:00pm.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/13/2017

Project No: 2170820

Temperature: 20 F

Client: Bausch & Lomb

Weather: Cloudy/Snow

Summary of Daily Activities:

J. Lanz – on-Site at 9:00 am. Mit tech on-Site. Compiling PVC piping to continue hanging and installing SSDS-2 in the sub-basement.

Dan Noll (LaBella) spoke with Nick (Mit Tech) and said that all air flow testing moving forward will need to be conducted with carbon filter. 4",45" 250 CM Active Can Lite Filter with 100% Virgin Activated Charcoal used and connected to fan/vacuum system.

9:30 – Mit tech running air flow test vacuum down through PVC piping already installed and through carbon filter. No PID readings noted while test being run.

Mit tech preparing to drill sub-slab vapor points in area HG-11. CAMP set up and ppb rae turned on in work area. HG-11 test point installed and then covered. CAMP and VOC monitoring ceased after sub-slab penetration has been sealed.

Nick (Mit Tech) trying to get approval for M-32 contractor grade epoxy paint to seal wall and large cracks. Waiting for DEC approval before using.

Pipe hangers being installed to ceiling of St. Michaels woodshop and pipe installation and stringing is to continue.

12:00 – Mit tech is calculating air flow, checking pressure points and continuing to install PVC piping as part of SSDS-1.

Nick (Mit Tech) on-Site at 1:30pm. Discussing airflow and issues with basement leaking. Patching may be needed on exterior western wall as positive air is still being encountered in subslab below St. Michaels woodshop.

M. Pelychaty on-Site at 2:15 to discuss issues with airflow and see project progress.

J. Lanz – off-Site at 4:00pm.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/14/2017

Project No: 2170820

Temperature: 28 F

Client: Bausch & Lomb

Weather: Cloudy

Summary of Daily Activities:

J. Lanz – on-Site at 8:45 am. Mit tech on-site at 9:00am. Connecting PVC of SSDS-1 to go out of Woodshop into elevator lobby of subbasement.

10:00 – Mit tech is measuring and cutting pipe to be strung along hangers into hallway.

11:00 –NYSDEC Scott Williams on-Site. Two (2) Mit Tech laborers also on-Site.

Penetration through southern wall into hallway from woodshop has gone through.

11:20 – penetrating sub-slab vapor point in elevator lobby of sub basement. Background PID reading is 960. No release evident noted after drilling. CAMP and VOC monitoring conducted during drilling.

Vacuum fan filter came unhooked during drilling and began shooting dust into the air for approximately 20 seconds. J. lanz instantly got attention of Mit Tech who turned off the machine. Dust readings (highest of 9.00ppm) took approximately 3 minutes to go back down to background readings. Work resumed. PVC glue being used on piping during VOC and CAMP monitoring after hole has been drilled and not covered. PVC glue is causing abnormally high readings on PID.

Scott Williams off-Site at 12:30.

2:00 – mobilizing equipment upstairs to place points south of storage room.

Preparing to core E11 vapor point. CAMP and VOC monitoring conducted during penetration until hole was covered. Hole made and closed by 2:34pm. No dust or VOC hazards noted. Sealed with fiberglass and puddy.

3:00 – Mit tech measuring and trying to figure out preferential pathway to take basement 1 systems through above suspended ceiling tiles. Drilling hole at E13 about to commence. CAMP and VOC monitoring conducted during penetrations until hole is covered.

All concrete chunks and dust vacuumed that was generated by subslab drilling is being disposed of in a 55-gallon drum being stored in the loading dock of B1.

3:25 – Drilling materials mobilized to Room B17. CAMP and PID monitoring commenced prior to drilling of next point to be drilled. Background PID reading was 431ppb. No dust or VOCs generated during drilling. Vacuum used while drilling as dust suppressant. Hole finished and patched with fiber glass and caulk at 3:44pm. Mit tech is cleaning work areas and mobilizing tools/equipment to storage room.

Project: 691 & 705 St. Paul St BCP:C828159A

Date: 12/15/2017

Project No: 2170820

Temperature: 30 F

Client: Bausch & Lomb

Weather: Partly Cloudy

Summary of Daily Activities:

J. Lanz – on-Site at 8:45

Mit tech on-Site at 9:00 am. Connecting piping in lower basement electric room (F/G-12) to penetration through ceiling area. Access gained to B09 to try and figure out vapor point locations in this room. 10:00 – Scott Williams and 2 Mit tech laborers on-Site.

Penetrating holes into subbasement electric room. Generator/electric system has oil based lubricants and is running. Background PID readings around 2,000PPB. PVC glue also recently used inside room to connect PVC piping for SSDS-1. CAMP and VOC monitoring set up prior to drilling.

1st hole penetrated into unmarked crawlspace. Vapor point location moved 3' south and 1.5' east and repenetrated.

Nick (Mit Tech) on-Site at 1:00pm. Was denied on using M-32 epoxy sealer on woodshop eastern wall. Speaking with Frank Sowers (NYSDEC) on what material can be used to seal the wall.

Piping already installed to have flow tested using a vacuum, carbon filter used at end of vacuum.

CAMPS turned off at 1:30 as all penetrations have been covered and no more penetrations are to be made.

2:00pm – Nick and Laborers on site to talk about measurements, issues with positive air and plan for Basement 1 System.

Mit tech and laborers hanging 6" pipe to existing piping in SSDS-1 (4") and continuing to string pipe south towards office/electric room.

Electric Room VOCs have retreated to background levels after the holes have been sealed.

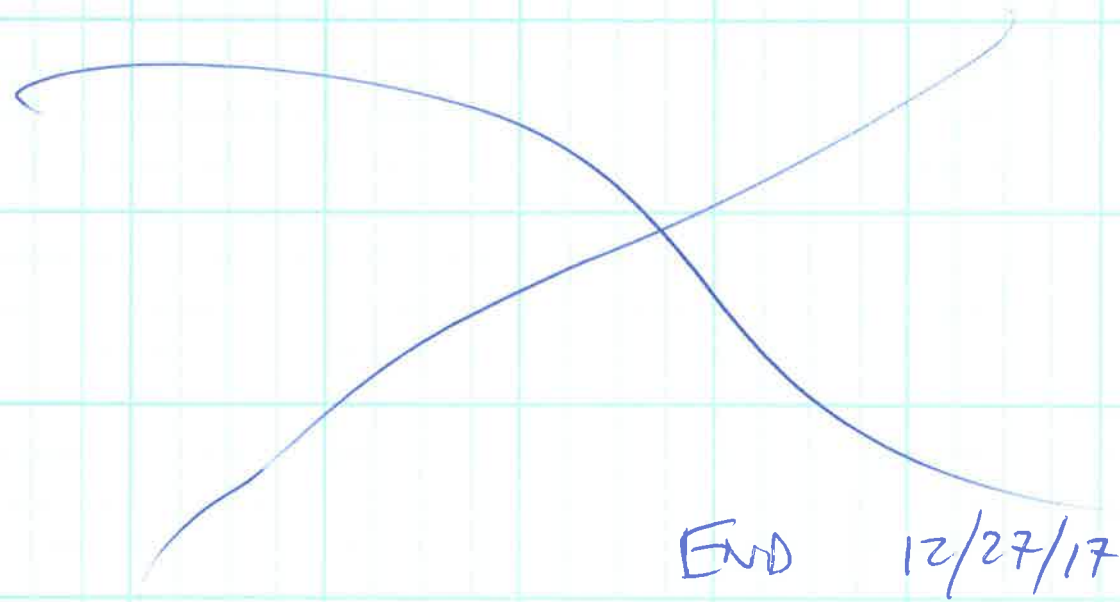
J. Lanz – off-Site at 3:30pm.

8:30 a.m. call from Aaron H / MIT Tech
they will show up @ \pm 11:00 a.m. Delayed
start due to previously scheduled medical
physicals.

Scott Williams / NYSDOC and Kam on-site
@ \pm 10:30. Bob Beck on-site \pm 11:15
and will continue work on NE leg of system
in upper basement to extend the header
pipe into hallway and turn 90° to SW
headed for loading dock.

Rest of day spent figuring and running
header pipe to the NW and into
adjacent Painter's storage / break
room.

S. Williams & Kam + MIT Tech off-site @ 15:30



END 12/27/17



Associates, D.P.C.

Engineering
Architecture
Environmental
Planning

DATE: 1/2/2018

DAY OF WEEK: S M T W T F S

SHEET NO. 1 OF 1

PROJECT NAME: NYSDEC BCP SITE #C8281S9A - 691 ST. PAUL STREET

PROJECT NO.: 2170820

LOCATION: 691 SAINT PAUL STREET, ROCHESTER, NEW YORK

CLIENT: BAUSCH & LOMB

	AM	PM
WEATHER	windy - cold	
TEMPERATURE	15	—

DESCRIPTION OF WORK

0830 - Michael F Polychuk (MFP) arrives on site to observe the installation of the SSDS. Mitigation on-site installing lateral PVC piping on upper basement level at south side of building.

0900 - Scott Williams of NYSDEC on site. Mitigation Tech installing horizontal pipe through wall from building space to landing deck building today. No subsurface penetrations conducted today, as such no air monitoring required today. Work completed today included 2 pipes on east side of landing deck building for upper basement pipe and 1 pipe on west side of building for lower basement system.

1320 - MFP off site. Scott Williams off site

1600 - MFP off site.

INSPECTOR'S SIGNATURE Michael F. Polychuk

DATE 1/2/2018

ATTACHMENTS YES NO

Kim on-site @ 9 a.m. w/ M&A Tech
 with hung pipe and open up some
 slab penetrations in upper basement
 storage room.

① SSDS extraction point penetration
 through floor slab in SW corner
 of storage room.

background readings

± 1.8 ppm VOCs ± 0.440 mg/m³

Time	(mg/m ³) part.	VOCs (ppm)
11:00	begin & take	background readings
11:05	0.415	1.702
11:10	0.254	1.632
11:15	0.234	1.664

11:20	0.290	1.456
11:25	Done 0.341	1.275

screen hole in floor slab = 1.275 ppm
 conc. floor slabs ± 4 in thick here

② SSDS extraction point penetration through floor slab, southern wall of storage area, to E of prev. penetration time

time	part	vecs (ppm)
12:05	begin 0.216 (background)	1.2 (background)
12:10	0.236	1.1
12:15	0.405	1.1
12:20	0.282	0.9
thru	slab, removing sub-slab cobbles	
12:25	0.223	0.9
12:30	0.174	0.8
12:35	0.183	0.8 0.7 Kam
END Penetration		

Kam off-site for lunch 13:00 to 13:45; upon return Scott Williams / NYSDEC has arrived on-site.

③ SSDS extraction poro slab penetration
 in NE portion of storage room
 (elevated backs round due to solvent glue
 used on PVC fittings)
time part. VOCS
(mg/m³) (ppm)

14:45 begin (begin) 0.265 3.6

14:50 0.125 3.5

14:55 0.133 3.2

15:00 0.129 3.6

15:05 1.333 4.2

15:10 0.200 4.2

15:15 0.133 4.0

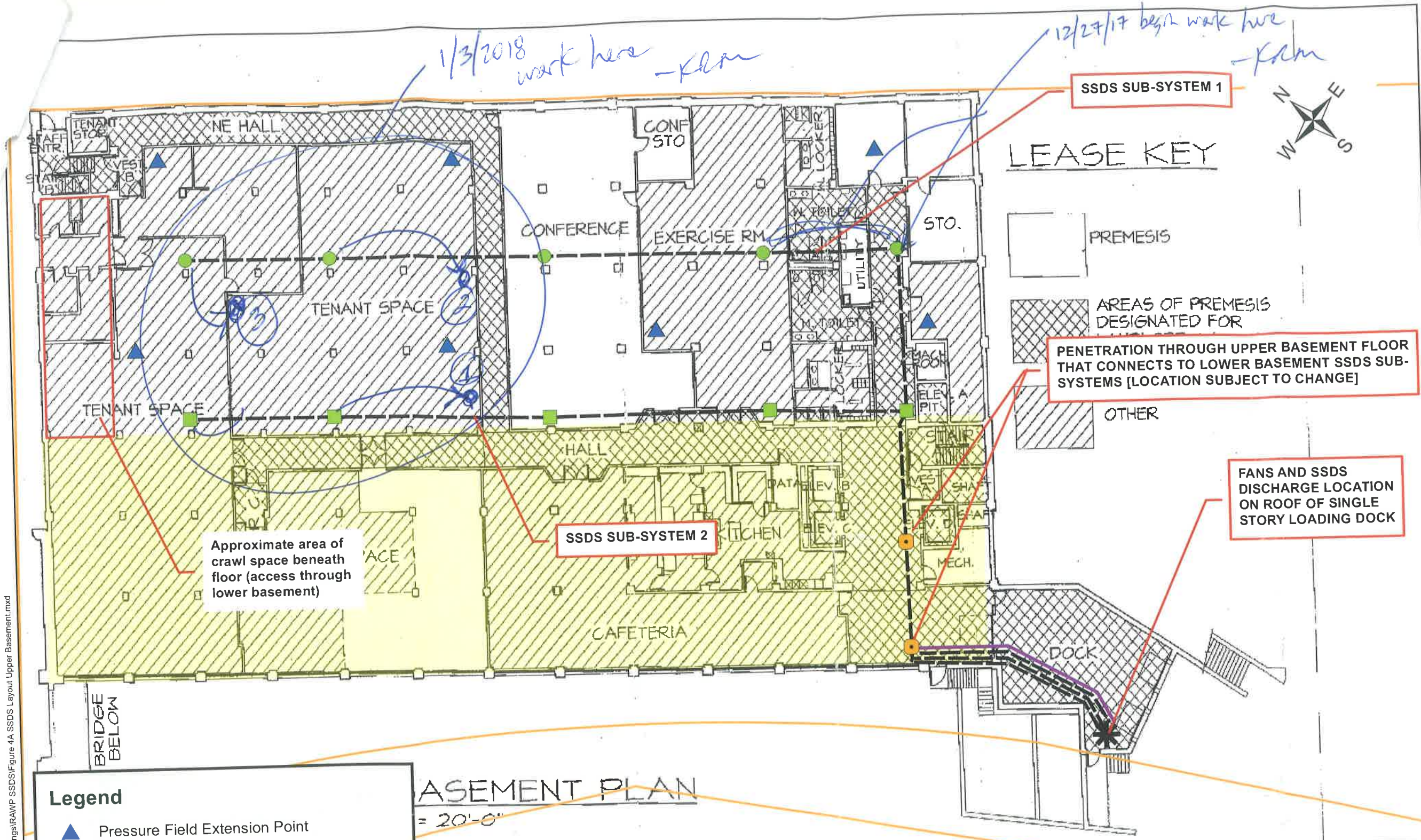
15:20 0.125 4.0

END penetration, screen open
 hole = +/- 6.2 ppm'

KRM & S. Williams & MATech

off site @ +/- 16:00

END 1/3/18



Path: I:\Bausch & Lomb\2170820 - 691 St. Paul St\SVIA\BCP Site Drawings\RAMP SSDS\Figure 4A SSDS Layout Upper Basement.mxd

TITLE
 SUB-SLAB DEPRESSURIZATION
 SYSTEM LAYOUT AT
 UPPER BASEMENT

PROJECT
 REMEDIAL ACTION WORK
 PLAN - SUB-SLAB
 DEPRESSURIZATION SYSTEM

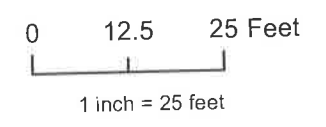
**BROWNFIELD CLEANUP
 PROGRAM #C828159A**

**691 AND 705 SAINT PAUL ST
 ROCHESTER, NEW YORK**

CLIENT
 BAUSCH AND LOMB



It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



DATE: 8/16/2017

INTENDED TO PRINT 11"x17"

[2170820]

[FIGURE 4A]

Legend

- ▲ Pressure Field Extension Point
- ✱ Exhaust/Fans Location
- SSDS Sub-System 1 Depressurization Point
- SSDS Sub-System 2 Depressurization Point
- Penetration to Upper Basement
- 4" Diameter Lateral Piping
- 6" Diameter Lateral Piping
- Monroe County Tax Parcel
- Approximate Area of Lower Basement

BASEMENT PLAN
 = 20'-0"

 bero architecture p.c. <small>32 Walkron Street Rochester, New York 14607 (716) 262-2035</small>	691 ST. PAUL STREET
	145010

Note:

- 1) All locations are approximate and are subject to change based on performance of SSDS, effectiveness of sealing work, site features, and accessibility.
- 2) Refer to Figure 5 for SSDS details
- 3) Property boundary is approximate. Tax parcel data obtained from Monroe County Real Property.
- 4) Building plan referenced from Bero Architecture dated 07/01/03.
- 5) Actual basement plan may differ.



Daily Log Sheet

Date: 11-Jan-18
SHEET 1 OF 1
JOB: 2170820
CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

LABELLA REPRESENTATIVE: A. Brett

CONTRACTOR: Mitigation Tech

Project Work Phase: SSDS installation.

TIME	DESCRIPTION OF ACTIVITY	MILEAGE
830	A. Brett onsite, getting badge for site access	
900	Bob of mitigation tech already on site on the roof above the loading dock sweeping water towards roof drains in order to be able to cut through the roof for pipe runs to fans.	
930	Aaron from Mitigation Tech onsite. Scott Williams of the NYSDEC on Site.	
954	Mike Pelychaty and Dan Noll of LaBella onsite to walk through building with Nick Mouganis of Mitigation Tech.	
	- Currently Plans to have AMG Force Fans on 4" pvc lines	
	-Currently Plans to have Fantech FR-250 on 6" pvc line	
	-Discussed alarm placement. Phone calls from loading dock. Nick to assess phone alarm capabilities for calling	
	-Audio alarms and U-manometers possible just inside of loading dock	
	separate parties and multiple parties at once.	
	- Type and construction of visual shield around fans to be determined	
	-Fan exhaust to be at least 10' above walkway	
	-Crawlspace to be assessed during testing whether or not a suction point is required.	
1020	Mitigation tech begins cutting through roof to bring PVC piping to the roof above the loading dock.	
1118	Mitigation tech continues cutting roof and running PVC through, sealing roof around PVC penetrations to prevent leaks.	
1224	Mitigation tech cutting additional (2) holes in roof to be used to run electric to fans when installed.	
1315	Drylocking walls in basement area post patching.	
1325	A total of 6 holes drilling in roof, 4 for PVC piping and 2 smaller diameter holes for electrical connections	
1330	CAMP set up in loading dock area for drilling into concrete on northeast side of loading dock to install pvc drain lines in to lines with low section.	
1445	CAMP stations taken down. A PPB rae was used to screen air during activities. Zero (0) ppb was recorded in the hole drilled in the floor. A maximum of approximately 1000 ppb (1ppm) was reach when mitigation tech used adhesive at pvc joints and connections. Dust from the drilling cement prior to breakthrough to the subsurface caused some elevated readings on the Dust Monitors. Mitigation tech turned on a shop vacuum with HEPA filter during the remainder of time drilling to successfully control dust levels.	
1530	Drain Piping installed.	
1530	Mitigation tech begins cleaning up for the day	
1400	Mitigation tech offsite.	
1415	A. Brett returning badge, heading offsite.	

Total Billable Hours _____-hours



300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

Daily Log Sheet

Date: 12-Jan-18
SHEET 1 OF 1
JOB: 2170820
CHKD BY:

LABELLA REPRESENTATIVE: A. Brett CONTRACTOR: Mitigation Tech

Project Work Phase: SSDS installation.

TIME	DESCRIPTION OF ACTIVITY	MILEAGE
830	A. Brett onsite, getting badge for site access. Bob of mitigation tech already on site, getting materials ready for running electrical lines.	
915	Aarron of Mitigation tech onsite to assist in getting materials prepared	
930	Heading to loading dock area, mitigation tech begins putting up electrical infrastructure	
1000	Scott Williams of NYSDEC on Site	
1030	Mitigation tech continues with electrical infrastructure.	
1147	Scott Williams offsite.	
1200	Mitigation tech helps begin moving shelves and contents to tables to expose drywall that is to be removed in the basement woodshop	
1300	Begin drywall removal in woodshop basement area to expose wall.	
1400	Electrical wiring being threaded through metal tubing from roof holes towards east side of the loading dock then heading north.	
1500	An existing line from electrical panel to just inside the loading dock area exists in which mitigation tech could connect electrical wiring to. Lines connect to LV-2 electrical panel inside a room with multiple panels. LV-2 is last panel furthest from the door.	
1515	Mitigation tech cleaning up/ packing up unneeded materials and loading them out of staging room.	
1600	Plans for following week. No work to be done on the system on Monday. Photos taken of pipes into roof and of drain line.	
1630	A. Brett and mitigation tech offsite. Returning badge to front security.	

Total Billable Hours _____-hours



Daily Log Sheet

Date: 18-Jan-18
SHEET: 1 OF 1
JOB: 2170820
CHKD BY:

300 STATE STREET, ROCHESTER, NY
 ENVIRONMENTAL ENGINEERING CONSULTANTS

LABELLA REPRESENTATIVE: A. Brett

CONTRACTOR: Mitigation Tech

Project Work Phase: SSDS installation.

TIME	DESCRIPTION OF ACTIVITY	MILEAGE
1050	A. Brett onsite, mitigation tech on loading dock roof to begin installing fans.	
1100	M. Pelychaty of Labella offsite.	
1125	Looking at wall in woodshop basement, completed repairs and dry locking of wall. A few spots appear to need a touch up.	
1130	Scott Williams of the DEC pointed out hole drilled by mitigation tech in the basement woodshop to be fixed	
1230	Remaining PVC 90 bends placed on top of the exhaust fans, with the exception of the 6-inch pipe.	
1355	From for fans in place and secure to pvc on roof. Scott williams expressed concerns about frame not being bolted down to roof.	
1437	System plugged in with wires to electrical outletl but not tied into panel due to different breakers, may need electrician Electical panel is located in room B-17 with wires feeding to electical panel LVP#2	
1440	Begin checking test points with digital manometer - pressure differential reader.	
1440	Room B-14: -0.03	
1440	Room B-11: Pressure was negative.	
1440	Outside stairwell B-12: +0.003	
1446	Room B-19: -0.02	
1448	Basement outside woodshop: +0.009	
1449	Hole near trench in woodshop: +0.5	
1455	Hole near inner wall of woodshop: -0.009	
1456	Hole near middle of the floor woodshop: +0.044	
1520	Four inch pipe to the right side when exiting building towards the loading dock is pulling at -2.4 inches with fans on. Six inch pipe to the right side when exiting building towards the loading dock is pulling at -1.2 inches with fans on.	
1600	Mitigation tech placed tape on top of the 6-inch pipe exhaust fan until the corrent 90 bend is procured.	
1630	A. Brett offsite.	

Total Billable Hours _____-hours



Daily Log Sheet

Date: 31-Jan-18
SHEET 1 OF 1
JOB: 2170820
CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

LABELLA REPRESENTATIVE: A. Brett CONTRACTOR: Mitigation Tech

Project Work Phase: SSDS installation.

Table with 3 columns: TIME, DESCRIPTION OF ACTIVITY, MILEAGE. Rows include activities like 'A. Brett on Site', 'Mitigation Tech on Site', 'Scott Williams of the NYSDEC on Site', etc.

Total Billable Hours -hours



Daily Log Sheet

Date: 18-Jan-18
SHEET 1 OF 1
JOB: 2170820
CHKD BY:

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

LABELLA REPRESENTATIVE: A. Brett
CONTRACTOR: Mitigation Tech

Project Work Phase: SSDS installation.

Table with columns: TIME, DESCRIPTION OF ACTIVITY, MILEAGE. Rows include activities from 1050 to 1630, such as 'A. Brett onsite, mitigation tech on loading dock roof to begin installing fans.' and pressure measurements in various rooms.

Total Billable Hours _____-hours



APPENDIX 5

Photo Log



SSDS pipe in loading dock with insulation



Drylock Seal Placed on Lower Basement Wall in Wood Shop



Sealing of crack within floor



SSDS Lateral and Label identifying pipe



SSDS lateral and pipe



SSDS pipe in loading dock space



SSDS piping penetrating through loading dock roof to fans



Pilot test for SSDS



Woodshop basement wall before drylock



Audible alarms and manometers for SSDS



Pressure field extension monitoring point



Fan installation for SSDS



SSDS piping label



SSDS piping label



Condensate Drain Pipe in Loading Dock Building



APPENDIX 6

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT

for

LaBella Associates, P.C.

300 State Street

Rochester, NY 14614

691 ST PAUL SITE
Project 2170820
SDG: C1803045
Sampled 3/16/2018

TO-15 AIR SAMPLES

691-AI-01 (C1803045-01)	691-AI-02 (C1803045-02)
691-AI-03 (C1803045-03)	691-AI-04 (C1803045-04)
691-AI-05 (C1803045-05)	691-AI-06 (C1803045-06)
691-AI-07 (C1803045-07)	691-AI-08 (C1803045-08)
691-AI-09 (C1803045-09)	691-AI-10 (C1803045-10)
691-AI-11 (C1803045-11)	691-AI-12 (C1803045-12)
DUPLICATE (C1803045-13)	

DATA ASSESSMENT

A TO-15 data package containing analytical results for thirteen air samples was received from LaBella Associates, P.C. on 04Apr18. The ASP deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 691 St. Paul Site, were identified by Chain of Custody documents and traceable through the work of Centek Laboratories, LLC, the laboratory contracted for analysis. The analyses were performed using US EPA Method TO-15 and addressed measurements of six volatile organic compounds. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP HW-31, Rev. #4, October 2006, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15) was used as a technical reference.


The results reported from 691-AI-03 and 691-AI-09 have been qualified as estimations because the sampling equipment failed to function properly.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Reported concentrations that are felt to provide a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed all QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date:

10 May 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the date of sampling. TO-15 samples must be analyzed within 14 days of collection.

This sample delivery group contained thirteen air samples that were collected from the 691 St. Paul site on 16Mar18. With the exception of 691-AI-11, the samples were collected in 1-liter SUMMA canisters. 691-AI-11 was collected in a 1.4-liter canister to facilitate the preparation of MS/MSD samples. The canisters were shipped to the laboratory, via FedEx, on the day of collection and were received on 19Mar18. The sample canisters were received intact, with custody seals in place on the packaging.

Although each SUMMA canister was set in the laboratory to collect an 8-hour sample, the collection of samples was terminated after between 4.0 and 9.3 hours based on the canister vacuum readings. At that time the vacuum reading from every cylinder except 691-AI-03 and 691-AI-09 satisfied the ASP requirement of -5 ± 1 "Hg. 691-AI-03 and 691-AI-09 produced readings of -1.8 "Hg and -1.1 "Hg, respectively. The results from this pair of samples have been qualified as estimations because the sampling equipment did not function properly.

The agreement between vacuum readings following sampling and at the time of analysis indicates that the integrity of the samples was maintained during that period.

SAMPLE	PRIOR TO SHIPMENT ("Hg)	PRIOR TO SAMPLING ("Hg)	POST SAMPLING ("Hg)	LAB RECEIPT ("Hg)	LAB ANALYSIS ("Hg)
691-AI-01	-30	-30.2	-5.9	-6	-6
691-AI-02	-30	-30.2	-5.75	-6	-6
691-AI-03	-30	-30.5	-1.8	-2	-2
691-AI-04	-30	-30.7	-5.4	-6	-6
691-AI-05	-30	-29.1	-5.5	-6	-6
691-AI-06	-30	-29.0	-5.6	-6	-6
691-AI-07	-30	-28.1	-5.5	-6	-6
691-AI-08	-30	-31.0	-5.9	-6	-6
691-AI-09	-30	-29.6	-1.1	-2	-2
691-AI-10	-30	-26.9	-5.8	-6	-6
691-AI-11	-30	-30.2	-5.8	-6	-6
691-AI-12	-30	-30.8	-5.1	-6	-6
DUPLICATE	-30	-26.9	-5.8	-6	-6

CANISTER CERTIFICATION

The canisters used for this project were pressure tested at 30 psig for 24 hours. Each canister demonstrated a change ≤ 0.5 psig over this period.

The canisters for this project were cleaned in five batches. A blank analysis of a clean canister from each batch was free of targeted analyte contamination exceeding the laboratory's reporting limit.

BLANKS

Blanks are analyzed to evaluate various sources of sample contamination. Trip Blanks monitor sampling activities, sample transport, and storage. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

MS TUNING

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

BFB ion abundance criteria was reported from standards run before the initial instrument calibration and prior to the analysis of program samples on 20Mar18. Both of these checks satisfied the ASP acceptance criteria.

CALIBRATION

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 18Mar18. Standards of 0.03, 0.04, 0.10, 0.15, 0.30, 0.50, 0.75, 1.0, 1.25, 1.50 and 2.0 ppbV were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A continuing calibration check standard was analyzed on 20Mar18, prior to the 24-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability during this check.

SURROGATES

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Although surrogate summary sheets were properly prepared, an incorrect acceptance criteria was applied. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

INTERNAL STANDARDS

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than 40%. When compared to the preceding calibration check, retention times may not vary by more than 10 seconds.

The laboratory recorded the response of each internal standard addition to this group of samples and the response obtained from the preceding CCV standard. Although the control limits based on the response of the CCV were not reported; they were calculated by this reviewer. When compared to these limits, acceptable performance was reported for the internal standard additions to each program sample.

Internal standard retention times were not addressed by the laboratory. The ASP retention time acceptance criteria was calculated by this reviewer. The retention times produced by each program sample satisfied these requirements.

MATRIX SPIKES / MATRIX SPIKE DUPLICATES / MATRIX SPIKED BLANKS

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

691-AI-11 was selected for matrix spiking. The entire list of targeted analytes was added to two volumes of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

A pair of spiked blanks (LCS/LCSD) was also analyzed with this group of samples. The recoveries reported from these LCS samples satisfied the ASP acceptance criteria.

DUPLICATES

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. Results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The duplicate sample that was included in this delivery group was not identified.

REPORTED ANALYTES

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was detected in this group of samples.

.

SUMMARY OF QUALIFIED DATA

690 ST PAUL SITE

SAMPLED MARCH 2018

SAMPLING

691-AI-01 (C1803045-01)
691-AI-02 (C1803045-02)
691-AI-03 (C1803045-03)
691-AI-04 (C1803045-04)
691-AI-05 (C1803045-05)
691-AI-06 (C1803045-06)
691-AI-07 (C1803045-07)
691-AI-08 (C1803045-08)
691-AI-09 (C1803045-09)
691-AI-10 (C1803045-10)
691-AI-11 (C1803045-11)
691-AI-12 (C1803045-12)
DUPLICATE (C1803045-13)

ALL UJ

ALL J/UJ

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-A1-01
Lab Order:	C1803045	Tag Number:	188.338
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-001A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:16:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:16:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:16:00 AM

MJS

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-002A

Client Sample ID: 691-AI-02
 Tag Number: 365.342
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:57:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:57:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:57:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Date: 28-Mar-18

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-003A

Client Sample ID: 691-AI-03
 Tag Number: 189.296
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Chloroethene	< 0.40	0.40		ug/m3	1	3/21/2018 1:38:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16	J	ug/m3	1	3/21/2018 1:38:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 1:38:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 1:38:00 AM

- Qualifiers:
- ** Quantitation Limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - JN Non-routine analyte. Quantitation estimated.
 - S Spike Recovery outside accepted recovery limits
 - Results reported are not blank corrected
 - E Estimated Value above quantitation range
 - J Analyte detected below quantitation limit
 - ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-004A

Client Sample ID: 691-AI-04
 Tag Number: 539.346
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 2:18:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 2:18:00 AM
Trichloroethene	0.21	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 2:18:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-005A

Client Sample ID: 691-A1-05
 Tag Number: 170.1168
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 3:00:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 3:00:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 3:00:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 C Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.	Client Sample ID: 691-AI-06
Lab Order: C1803045	Tag Number: 131.340
Project: 691 St Paul St.	Collection Date: 3/16/2018
Lab ID: C1803045-006A	Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 4:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 4:21:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 4:21:00 AM

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-007A

Client Sample ID: 691-AI-07
 Tag Number: 133.1164
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:03:00 AM
cis-1,2-Dichloroethene	0.55	0.16		ug/m3	1	3/21/2018 5:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:03:00 AM
Trichloroethene	0.54	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 5:03:00 AM

RJS

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 - Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-008A

Client Sample ID: 691-A1-08
 Tag Number: 287.380
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:44:00 AM
cis-1,2-Dichloroethene	0.87	0.16		ug/m3	1	3/21/2018 5:44:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:44:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Vinyl chloride	0.20	0.10		ug/m3	1	3/21/2018 5:44:00 AM

RJP

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-009A

Client Sample ID: 691-AI-09
 Tag Number: 88.406
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.18 J	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Chloroethane	< 0.40 J	0.40		ug/m3	1	3/21/2018 6:24:00 AM
cis-1,2-Dichloroethene	1.0 J	0.16		ug/m3	1	3/21/2018 6:24:00 AM
trans-1,2-Dichloroethene	< 0.59 J	0.59		ug/m3	1	3/21/2018 6:24:00 AM
Trichloroethene	0.64 J	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Vinyl chloride	< 0.10 J	0.10		ug/m3	1	3/21/2018 6:24:00 AM

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-10
Lab Order:	C1803045	Tag Number:	324.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-010A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:06:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 7:06:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:06:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:06:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.	Client Sample ID: 691-AI-11 MS/MSD
Lab Order: C1803045	Tag Number: 1196.1418
Project: 691 St Paul St.	Collection Date: 3/16/2018
Lab ID: C1803045-011A	Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/20/2018 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/20/2018 10:02:00 PM
cis-1,2-Dichloroethene	0.71	0.15		ug/m3	1	3/20/2018 10:02:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/20/2018 10:02:00 PM
Trichloroethene	0.75	0.15		ug/m3	1	3/20/2018 10:02:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/20/2018 10:02:00 PM

MS

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-012A

Client Sample ID: 691-AI-12
 Tag Number: 92.266
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:47:00 AM
cis-1,2-Dichloroethene	0.63	0.16		ug/m3	1	3/21/2018 7:47:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:47:00 AM
Trichloroethene	0.38	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:47:00 AM

RRS

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-013A

Client Sample ID: Duplicate
 Tag Number: 359.1171
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 8:29:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 8:29:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 8:29:00 AM
Trichloroethene	0.70	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 8:29:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits

. Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Date: 28-Mar-18

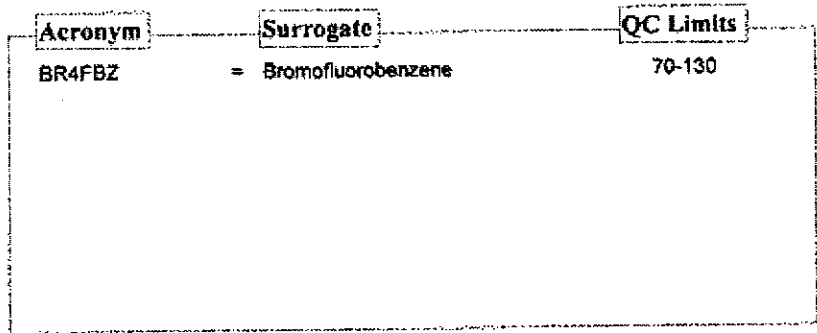


CENTEK LABORATORIES, LLC

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

CLIENT: LaBella Associates, P.C.
 Work Order: C1803045
 Project: 691 St Paul St.
 Test No: TO-15 Matrix: A

Sample ID	BR4FBZ							
ALCS1UG-032018	117							
ALCS1UGD-032018	113							
AMBIUG-032018	74.0							
C1803045-001A	87.0							
C1803045-002A	87.0							
C1803045-003A	87.0							
C1803045-004A	89.0							
C1803045-005A	94.0							
C1803045-006A	104							
C1803045-007A	92.0							
C1803045-008A	93.0							
C1803045-009A	99.0							
C1803045-010A	98.0							
C1803045-011A	96.0							
C1803045-011A MS	107							
C1803045-011A MSD	110							
C1803045-012A	97.0							
C1803045-013A	98.0							



* Surrogate recovery outside acceptance limits

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AP032003.D
 Tune Time : 20 Mar 2018 11:17 am

Daily Calibration File : C:\HPCHEM\1\DATA\AP032003.D

(BFB) (IS1) (IS2) (IS3)
 46099 180776 134559

CCV 3/20/18 11:17
 10.50 12:74 17:48

File	Sample	DL	Surrogate	Recovery %	Internal	Standard	Responses
AP032004.D	ALCS1UG-032018		117		45642	184633	137362
AP032005.D	AMB1UG-032018		74		42656	173156	111783
AP032017.D	C1803045-011A		96	10.56 12.73 17.48	46044	176727	139424
AP032018.D	C1803045-011A	MS	107		47978	185659	154700
AP032019.D	C1803045-011A	MSD	110		49533	191428	152131
AP032020.D	C1803045-001A		87	10.49 12.73 17.48	52385	197971	149199
AP032021.D	C1803045-002A		87	10.49 12.73 17.48	48637	191827	146559
AP032022.D	C1803045-003A		87	10.49 12.73 17.47	53744	197860	151590
AP032023.D	C1803045-004A		89	10.49 12.73 17.47	52181	198634	151530
AP032024.D	C1803045-005A		94	10.49 12.73 17.47	51874	199002	158457
AP032025.D	ALCS1UGD-032018		113		44474	178734	141780
AP032026.D	C1803045-006A		104	10.49 12.73 17.48	51192	191764	142990
AP032027.D	C1803045-007A		92	10.49 12.73 17.48	50470	188806	146012
AP032028.D	C1803045-008A		93	10.48 12.73 17.48	49557	187620	144764
AP032029.D	C1803045-009A		99	10.49 12.73 17.47	47202	180426	144567
AP032030.D	C1803045-010A		98	10.49 12.73 17.48	48088	184167	142740
AP032031.D	C1803045-012A		97	10.51 12.73 17.48	46283	179108	143253
AP032032.D	C1803045-013A		98	10.49 12.73 17.48	47464	181186	141584

t - fails 24hr time check * - fails criteria

Created: Wed Mar 28 07:37:49 2018 MSD #1/

Date: 28-Mar-18

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1803045

Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: ALC81UG-032018	SampType: LCS	Batch ID: R13408	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 13408					
Client ID: ZZZZ			TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155422					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7600	0.040	1	0	76.0 ✓	70	130				
Chloroethane	0.9600	0.15	1	0	96.0	70	130				
cis-1,2-Dichloroethene	0.9500	0.040	1	0	95.0	70	130				
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130				
Trichloroethene	0.9500	0.030	1	0	95.0	70	130				
Vinyl chloride	0.9000	0.040	1	0	90.0	70	130				

Sample ID: ALC81UGD-032018	SampType: LCSD	Batch ID: R13408	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 13408					
Client ID: ZZZZ			TestNo: TO-15		Analysis Date: 3/21/2018	SeqNo: 155423					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7900	0.040	1	0	79.0 ✓	70	130	0.76	3.87	30	
Chloroethane	0.9600	0.15	1	0	96.0	70	130	0.96	0	30	
cis-1,2-Dichloroethene	1.000	0.040	1	0	100	70	130	0.95	5.13	30	
trans-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
Trichloroethene	1.000	0.030	1	0	100	70	130	0.95	5.13	30	
Vinyl chloride	0.9100	0.040	1	0	91.0	70	130	0.9	1.10	30	

Qualifiers: } Results reported are not blank corrected
 } Analyte detected below quantitation limit
 S Spikes Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Date: 28-Mar-18



ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
Work Order: C1803045
Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: AMB1UG-032018	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 13408						
Client ID: ZZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HightLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	< 0.040	✓	0.040								
Chloroethane	< 0.15		0.15								
cis-1,2-Dichloroethene	< 0.040		0.040								
trans-1,2-Dichloroethene	< 0.15		0.15								
Trichloroethene	< 0.030		0.030								
Vinyl chloride	< 0.040		0.040								

Qualifiers:

- J Results reported are not blank corrected
- S Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Date: 28-Mar-18

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1803045

Project: 691 St Paul SL

TestCode: 0.20_NYS

Sample ID: C1803045-011A MS	SampType: MS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408						
Client ID: 691-AI-11 MS/M6D	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155437						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130				
Chloroethane	0.9000	0.15	1	0	90.0	70	130				
cis-1,2-Dichloroethene	1.130	0.040	1	0.18	95.0	70	130				
trans-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130				
Trichloroethene	1.110	0.030	1	0.14	97.0	70	130				
Vinyl chloride	0.8300	0.040	1	0	83.0	70	130				

Sample ID: C1803045-011A MS	SampType: MSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408						
Client ID: 691-AI-11 MS/MSD	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155438						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130	0.73	0	30	
Chloroethane	0.8200	0.15	1	0	82.0	70	130	0.9	9.30	30	
cis-1,2-Dichloroethene	1.060	0.040	1	0.18	86.0	70	130	1.13	6.39	30	
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
Trichloroethene	1.060	0.030	1	0.14	92.0	70	130	1.11	4.61	30	
Vinyl chloride	0.8200	0.040	1	0	82.0	70	130	0.83	1.21	30	

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits



APPENDIX 7

Laboratory Analytical Report



Centek Laboratories TO-15 Package Review Checklist

Client: LaBella **Project:** 691 St Paul St **SDG:** C1803045

		<u>YES</u>	<u>NO</u>	<u>NA</u>
Analytical Results	Present and Complete	/	—	—
TIC's Present	Present and Complete	/	—	—
	Holdin Times Met	/	—	—

Comments: _____

Chain of Custody	Present and Complete	/	—	—
Surrogate	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—
	Sample(s) reanalyzed	—	—	/
Internal Standards	Present and Complete	/	—	—
Recovery	Recoveries within Limits	/	—	—
	Sample(s) reanalyzed	—	—	/

Comments: _____

Lab Control Sample (LCS)	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—
Lab Control Sample Dupe (LCSD)	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—
MS/MSD	Present and Complete	/	—	—
	Recoveries within Limits	/	—	—

Comments: _____

Sample Raw Data	Present and Complete	/	—	—
	Spectra present	/	—	—

Comments: _____

Centek Laboratories TO-15 Package Review Checklist



Client: LaBella **Project:** 691 St Paul St **SDG:** C1803045

		<u>YES</u>	<u>NO</u>	<u>NA</u>
<u>Standards Data</u>				
Initial Calibration	Present and Complete	/	—	—
	Calibration meets criteria	/	—	—
Continuing Calibration	Present and Complete	/	—	—
	Calibration meets criteria	/	—	—
Standards Raw Data	Present and Complete	/	—	—

Comments:

<u>Raw Quality Control Data</u>				
Tune Criteria Report	Present and Complete	/	—	—
Method Blank Data	MB Results <PQL	/	—	—
	Associated results flagged "B"	—	—	/
LCS Sample Data	Present and Complete	/	—	—
LCSD Sample Data	Present and Complete	/	—	—
MS/MSD Sample Data	Present and Complete	/	—	—

Comments:

<u>Logbooks</u>				
Injection Log		/	—	—
Standards Log		/	—	—
Can Cleaning Log		/	—	—
Calculation Sheet		/	—	—
IDL's		/	—	—
Canister Order Form		/	—	—
Sample Tracking Form		/	—	—

Additional Comments:

Section Supervisor: Will Doh

Date: 4/2/18

QC Supervisor: Moni Perle

Date: 4/2/18



CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

NYSDOH ELAP Certificate No. 11830

Analytical Report

John Lanz
LaBella Associates, P.C.
300 State Street, Suite 201
Rochester, NY 14614

Thursday, March 22, 2018
Order No.: C1803045

TEL: (585) 454-6110
FAX (585) 454-3066
RE: 691 St Paul St.

Dear John Lanz:

Centek Laboratories, LLC received 13 sample(s) on 3/19/2018 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

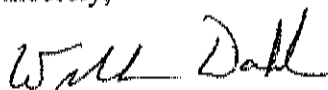
Centek Laboratories SOP TS-80

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

This report cannot be reproduced except in its entirety, without prior written authorization.

Sincerely,



William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, tetrahydrofuran, 4-PCH, sulfur derived and silicon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:

Same day TAT = 200%

Next business day TAT by Noon = 150%

Next business day TAT by 6:00pm = 100%

Second business day TAT by 6:00pm = 75%

Third business day TAT by 6:00pm = 50%

Fourth business day TAT by 6:00pm = 35%

Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of

liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE

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CENTEK LABORATORIES, LLC

Date: 02-Apr-18

CLIENT: LaBella Associates, P.C.
Project: 691 St Paul St.
Lab Order: C1803045

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Centek Laboratories, LLC SOP TS-80
Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:

Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg ($\pm 2''$, vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg ($\pm 1''$, vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg, $\pm 1''$. Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

Centek Labs - Chain of Custody

143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com

Site Name: 691 St. Paul St
Project: 691 St. Paul
PO#: 2170820
Quote #: Q-58
Canister Order #: 7097

Company: *Carbella Associates*
Report to: *Carbella Associates*
Address: *691 St. Paul St*
City, State, Zip: *Syracuse, NY 13206*
Email: *lana@carbella.com*
Phone: *585-454-6110*

Company: *Carbella Associates*
Check Here if Same:
Invoice to:
Address:
City, State, Zip

Detection Limit
5ppbv
1ug/M3
1ug/M3 + 0.2 NYS
Level I
Level II
Cat "B" Like

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Field Vacuum Start/Stop	Labs Vacuum Recv/Analysis	Comments
691-AI-01	3/16/2018	188	338	TO-15	30.2 15.9	-6 1-5	8:00- / 14:50
691-AI-02	3/16/2018	365	342	"	30.2 15.75	-6 1-6	8:01 / 14:41
691-AI-03	3/16/18	199	296	"	30.5 16.8	-2 1-2	8:10 / 12:10
691-AI-04	3/16/18	539	346	"	30.7 15.4	-6 1-6	8:14 / 15:10
691-AI-05	3/16/18	170	1168	"	29.1 15.5	-6 1-6	8:19 / 14:35
691-AI-06	3/16/18	131	340	"	29.0 15.6	-6 1-6	8:17 / 14:39
691-AI-07	3/16/18	133	1164	"	28.1 15.5	-6 1-6	8:21 / 14:26
691-AI-08	3/16/18	287	380	"	31.0 15.9	-6 1-6	8:24 / 15:46
691-AI-09	3/16/18	88	406	"	29.6 16.1	-2 1-2	8:28 / 12:15
691-AI-10	3/16/18	324	1171	"	26.9 15.8	-6 1-6	8:31 / 14:45
691-AI-11 /MS/MSD	3/16/18	1196	1418	"	30.2 15.8	-6 1-6	8:32 / 15:52
691-AI-12	3/16/18	92	266	"	30.8 15.1	-6 1-6	8:34 / 15:02
Duplicate	3/16/18	359	1171	"	26.9 15.8	-6 1-6	8:31 / 14:55

Field Vacuum Start/Stop
Date/Time
3/16/18 / 15:52
3/16/18 / 16:30
3-19-18

Courier: CIRCLE ONE
UPS
Pickup/Dropoff

Signature
John La...
John La...
Nick Mandorano

Print Name
Signature

Work Order # C1803045

Chain of Custody
Sampled by:
Relinquished by:
Received at Lab by:

* By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.


CENTEK LABORATORIES, LLC

Date: 02-Apr-18

CLIENT: LaBella Associates, P.C.
Project: 691 St Paul St.
Lab Order: C1803045

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1803045-001A	691-AI-01	188.338	3/16/2018	3/19/2018
C1803045-002A	691-AI-02	365.342	3/16/2018	3/19/2018
C1803045-003A	691-AI-03	189.296	3/16/2018	3/19/2018
C1803045-004A	691-AI-04	539.346	3/16/2018	3/19/2018
C1803045-005A	691-AI-05	170.1168	3/16/2018	3/19/2018
C1803045-006A	691-AI-06	131.340	3/16/2018	3/19/2018
C1803045-007A	691-AI-07	133.1164	3/16/2018	3/19/2018

CLIENT: LaBella Associates, P.C.
Project: 691 St Paul St.
Lab Order: C1803045

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1803045-008A	691-AI-08	287.380	3/16/2018	3/19/2018
C1803045-009A	691-AI-09	88.406	3/16/2018	3/19/2018
C1803045-010A	691-AI-10	324.1171	3/16/2018	3/19/2018
C1803045-011A	691-AI-11 MS/MSD	1196.1418	3/16/2018	3/19/2018
C1803045-012A	691-AI-12	92.266	3/16/2018	3/19/2018
C1803045-013A	Duplicate	359.1171	3/16/2018	3/19/2018



CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name LABELLA - ROCHESTER

Date and Time Receive 3/19/2018

Work Order Number C1800045

Received by NM

Checklist completed by

[Signature]
Signature

3-19-18
Date

Reviewed by

WD
Initials

3/19/18
Date

Matrix: Carrier name: FedEx Ground

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Lab Order: C1803045
 Client: LaBella Associates, P.C.
 Project: 691 St Paul St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1803045-001A	691-AI-01	3/16/2018	Air	1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-002A	691-AI-02			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-003A	691-AI-03			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-004A	691-AI-04			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-005A	691-AI-05			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-006A	691-AI-06			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-007A	691-AI-07			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-008A	691-AI-08			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-009A	691-AI-09			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-010A	691-AI-10			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-011A	691-AI-11 MS/MSD			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/20/2018
C1803045-012A	691-AI-12			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018
C1803045-013A	Duplicate			1ug/m3 w/ 0.2ug/M3 CT-TCE-VC-DCE-1,1DCE			3/21/2018



CENTEK LABORATORIES, LLC

Air Quality Testing...It's a Gas

143 Midler Park Drive * Syracuse, NY 13206
 TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

7097

02-Apr-18

SHIPPED TO:

Company: LaBella Associates, P.C.
 Contact: John Lanz
 Address: 300 State Street, Suite 201
 Rochester, NY 14614
 Phone: (585) 454-6110
 Quote ID: 0
 Project:
 PO:

Submitted By:
 MadeBy: rjp
 Ship Date: 3/9/2018
 VIA: FedEx Ground
 Due Date: 3/12/2018

Bottle Code	Bottle Type	TEST(s)	QTY
-------------	-------------	---------	-----

Can / Reg ID	Description
88	1L Mini-Can - 1107 VI
92	1L Mini-Can - 1103 VI
131	1L Mini-Can - 1079 VI
133	1L Mini-Can - 1082 VI
170	1L Mini-Can - 1141 VI
188	1L Mini-Can - 1143 VI
1418	Time-Set Reg-2197 IAQ
406	Time-Set Reg - 785 VI
539	1L Mini-Can - 107 VI
1164	Time-Set Reg-0877 VI
1168	Time-Set Reg-0793 VI
1171	Time-Set Reg-0796 VI
1196	1.4L Mini-Can - 1374 VI
340	Time-Set Reg - 737 VI
342	Time-Set Reg - 739 VI
346	Time-Set Reg - 743 VI
359	1L Mini-Can - 1308 VI
365	1L Mini-Can - 1314 VI
380	Time-Set Reg - 754 VI
189	1L Mini-Can - 1144 VI
266	Time-Set Reg - 704 VI
287	1L Mini-Can - 255 VI
296	Time-Set Reg - 719 VI
324	1L Mini-Can - 1287 VI
338	Time-Set Reg - 735 VI
1158	Time-Set Reg-0671 VI
419	1L Mini-Can - 1343 VI
370	1L Mini-Can - 1319 VI
339	Time-Set Reg - 736 VI
267	Time-Set Reg - 705 VI
352	1L Mini-Can - 1301 VI
343	Time-Set Reg - 740 VI
161	1L Mini-Can - 1131 VI
272	Time-Set Reg - 710 VI
237	1L Mini-Can - 1168 VI

SHIPPED TO:

Company: LaBella Associates, P.C.
 Contact: John Lanz
 Address: 300 State Street, Suite 201
 Rochester, NY 14614
 Phone: (585) 454-6110
 Quote ID: 0
 Project:
 PO:

Submitted By:
 MadeBy: rjp
 Ship Date: 3/9/2018
 VIA: FedEx Ground
 Due Date: 3/12/2018

Bottle Code	Bottle Type	TEST(s)	QTY
261	Time-Set Reg - 699 VI		
265	Time-Set Reg - 703 VI		
171	1L Mini-Can - 1142 VI		
168	1L Mini-Can - 1138 VI		

Comments: 18 1L @ 8hr + 1 1.4 @ 8r + Dupe WAC 011518A-B, 022618A-C, 022818A-C

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-001A

Client Sample ID: 691-AI-01
Tag Number: 188.338
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 12:16:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 12:16:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 12:16:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 12:16:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-001A

Client Sample ID: 691-AI-01
Tag Number: 188.338
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:16:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:16:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:16:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-02
Lab Order:	C1803045	Tag Number:	365.342
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-002A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 12:57:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 12:57:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 12:57:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 12:57:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Date: 28-Mar-18

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-002A

Client Sample ID: 691-AI-02
Tag Number: 365.342
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:57:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:57:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Vinyi chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:57:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-003A

Client Sample ID: 691-AI-03
Tag Number: 189.296
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-2			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						
						Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 1:38:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 1:38:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 1:38:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 1:38:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-003A

Client Sample ID: 691-AI-03
 Tag Number: 189.296
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 1:38:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 1:38:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 1:38:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-004A

Client Sample ID: 691-AI-04
Tag Number: 539.346
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 2:18:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 2:18:00 AM
Trichloroethene	0.040	0.030		ppbV	1	3/21/2018 2:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	3/21/2018 2:18:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-004A

Client Sample ID: 691-AI-04
Tag Number: 539.346
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 2:18:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 2:18:00 AM
Trichloroethene	0.21	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 2:18:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-005A

Client Sample ID: 691-AI-05
 Tag Number: 170.1168
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 3:00:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 3:00:00 AM
Trichloroethene	0.060	0.030		ppbV	1	3/21/2018 3:00:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	3/21/2018 3:00:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-005A

Client Sample ID: 691-AI-05
Tag Number: 170.1168
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 3:00:00 AM
cis-1,2-Dichloroethane	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 3:00:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 3:00:00 AM

Qualifiers: ** Quantitation Limit - Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-006A

Client Sample ID: 691-AI-06
Tag Number: 131.340
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 4:21:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 4:21:00 AM
Trichloroethene	0.060	0.030		ppbV	1	3/21/2018 4:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
Surr: Bromofluorobenzene	104	70-130		%REC	1	3/21/2018 4:21:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-006A

Client Sample ID: 691-AI-06
Tag Number: 131,340
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 4:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 4:21:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 4:21:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-007A

Client Sample ID: 691-AI-07
 Tag Number: 133.1164
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 5:03:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 5:03:00 AM
cis-1,2-Dichloroethene	0.14	0.040		ppbV	1	3/21/2018 5:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 5:03:00 AM
Trichloroethene	0.10	0.030		ppbV	1	3/21/2018 5:03:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 5:03:00 AM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	3/21/2018 5:03:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-007A

Client Sample ID: 691-AI-07
Tag Number: 133.1164
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:03:00 AM
cis-1,2-Dichloroethene	0.55	0.16		ug/m3	1	3/21/2018 5:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:03:00 AM
Trichloroethene	0.54	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 5:03:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte, Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-008A

Client Sample ID: 691-AI-08
 Tag Number: 287.380
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 5:44:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 5:44:00 AM
cis-1,2-Dichloroethene	0.22	0.040		ppbV	1	3/21/2018 5:44:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 5:44:00 AM
Trichloroethene	0.14	0.030		ppbV	1	3/21/2018 5:44:00 AM
Vinyl chloride	0.080	0.040		ppbV	1	3/21/2018 5:44:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	3/21/2018 5:44:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte, Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-08
Lab Order:	C1803045	Tag Number:	287.380
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-008A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:44:00 AM
cis-1,2-Dichloroethene	0.87	0.16		ug/m3	1	3/21/2018 5:44:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:44:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Vinyl chloride	0.20	0.10		ug/m3	1	3/21/2018 5:44:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-009A

Client Sample ID: 691-A1-09
 Tag Number: 88,406
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 6:24:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 6:24:00 AM
cis-1,2-Dichloroethene	0.26	0.040		ppbV	1	3/21/2018 6:24:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 6:24:00 AM
Trichloroethene	0.12	0.030		ppbV	1	3/21/2018 6:24:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 6:24:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	3/21/2018 6:24:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-A1-09
Lab Order:	C1803045	Tag Number:	88.406
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-009A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 6:24:00 AM
cis-1,2-Dichloroethene	1.0	0.16		ug/m3	1	3/21/2018 6:24:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 6:24:00 AM
Trichloroethene	0.64	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 6:24:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-10
Lab Order:	C1803045	Tag Number:	324.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-010A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 7:06:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 7:06:00 AM
cis-1,2-Dichloroethene	0.24	0.040		ppbV	1	3/21/2018 7:06:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 7:06:00 AM
Trichloroethene	0.14	0.030		ppbV	1	3/21/2018 7:06:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 7:06:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	3/21/2018 7:06:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-10
Lab Order:	C1803045	Tag Number:	324.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-010A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:06:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 7:06:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:06:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:06:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-11 MS/MSD
Lab Order:	C1803045	Tag Number:	1196.1418
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-011A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/20/2018 10:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	3/20/2018 10:02:00 PM
cis-1,2-Dichloroethene	0.18	0.040		ppbV	1	3/20/2018 10:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/20/2018 10:02:00 PM
Trichloroethene	0.14	0.030		ppbV	1	3/20/2018 10:02:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/20/2018 10:02:00 PM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	3/20/2018 10:02:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-11 MS/MSD
Lab Order:	C1803045	Tag Number:	1196.1418
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-011A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/20/2018 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/20/2018 10:02:00 PM
cis-1,2-Dichloroethene	0.71	0.16		ug/m3	1	3/20/2018 10:02:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/20/2018 10:02:00 PM
Trichloroethene	0.75	0.16		ug/m3	1	3/20/2018 10:02:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/20/2018 10:02:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-A1-12
Lab Order:	C1803045	Tag Number:	92.266
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-012A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 7:47:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 7:47:00 AM
cis-1,2-Dichloroethene	0.16	0.040		ppbV	1	3/21/2018 7:47:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 7:47:00 AM
Trichloroethene	0.070	0.030		ppbV	1	3/21/2018 7:47:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 7:47:00 AM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	3/21/2018 7:47:00 AM

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte, Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-012A

Client Sample ID: 691-AI-12
Tag Number: 92.266
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:47:00 AM
cis-1,2-Dichloroethene	0.63	0.16		ug/m3	1	3/21/2018 7:47:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:47:00 AM
Trichloroethene	0.38	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:47:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	Duplicate
Lab Order:	C1803045	Tag Number:	359.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-013A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						
				FLD		Analyst:
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 8:29:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 8:29:00 AM
cis-1,2-Dichloroethene	0.24	0.040		ppbV	1	3/21/2018 8:29:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 8:29:00 AM
Trichloroethene	0.13	0.030		ppbV	1	3/21/2018 8:29:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 8:29:00 AM
Surr. Bromofluorobenzene	98.0	70-130		%REC	1	3/21/2018 8:29:00 AM
				TO-15		Analyst: RJP

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	Duplicate
Lab Order:	C1803045	Tag Number:	359.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-013A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 8:29:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 8:29:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 8:29:00 AM
Trichloroethene	0.70	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 8:29:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 28-Mar-18



CENTEK LABORATORIES, LLC

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

CLIENT: LaBella Associates, P.C.
Work Order: C1803045
Project: 691 St Paul St.
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-032018	117							
ALCS1UGD-032018	113							
AMBIUG-032018	74.0							
C1803045-001A	87.0							
C1803045-002A	87.0							
C1803045-003A	87.0							
C1803045-004A	89.0							
C1803045-005A	94.0							
C1803045-006A	104							
C1803045-007A	92.0							
C1803045-008A	93.0							
C1803045-009A	99.0							
C1803045-010A	98.0							
C1803045-011A	96.0							
C1803045-011A MS	107							
C1803045-011A MSD	110							
C1803045-012A	97.0							
C1803045-013A	98.0							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

* Surrogate recovery outside acceptance limits

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AP032003.D
 Tune Time : 20 Mar 2018 11:17 am

Daily Calibration File : C:\HPCHEM\1\DATA\AP032003.D

(BFB) (IS1) (IS2) (IS3)
 46099 180776 134559

File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AP032004.D	ALCS1UG-032018		117	45642	184633	137362
AP032005.D	AMB1UG-032018		74	42656	173156	111783
AP032017.D	C1803045-011A		96	46044	176727	139424
AP032018.D	C1803045-011A	MS	107	47978	185659	154700
AP032019.D	C1803045-011A	MSD	110	49533	191428	152131
AP032020.D	C1803045-001A		87	52385	197971	149199
AP032021.D	C1803045-002A		87	48637	191827	146559
AP032022.D	C1803045-003A		87	53744	197860	151590
AP032023.D	C1803045-004A		89	52181	198634	151530
AP032024.D	C1803045-005A		94	51874	199002	158457
AP032025.D	ALCS1UGD-032018		113	44474	178734	141780
AP032026.D	C1803045-006A		104	51192	191764	142990
AP032027.D	C1803045-007A		92	50470	188806	146012
AP032028.D	C1803045-008A		93	49557	187620	144764
AP032029.D	C1803045-009A		99	47202	180426	144567
AP032030.D	C1803045-010A		98	48088	184167	142740
AP032031.D	C1803045-012A		97	46283	179108	143253
AP032032.D	C1803045-013A		98	47464	181186	141584

t - fails 24hr time check * - fails criteria

Created: Wed Mar 28 07:37:49 2018 MSD #1/

Date: 28-Mar-18

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1803045

Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: ALCS1UG-032018	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408
Client ID: ZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155422

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7600	0.040	1	0	76.0	70	130				
Chloroethane	0.9600	0.15	1	0	96.0	70	130				
cis-1,2-Dichloroethene	0.9500	0.040	1	0	95.0	70	130				
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130				
Trichloroethene	0.9500	0.030	1	0	95.0	70	130				
Vinyl chloride	0.9000	0.040	1	0	90.0	70	130				

Sample ID: ALCS1UGD-032018	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408
Client ID: ZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/21/2018	SeqNo: 155423

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	130	0.76	3.87	30	
Chloroethane	0.9600	0.15	1	0	96.0	70	130	0.96	0	30	
cis-1,2-Dichloroethene	1.000	0.040	1	0	100	70	130	0.95	5.13	30	
trans-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
Trichloroethene	1.000	0.030	1	0	100	70	130	0.95	5.13	30	
Vinyl chloride	0.9100	0.040	1	0	91.0	70	130	0.9	1.10	30	

Qualifiers:	Results reported are not blank corrected	Estimated Value above quantitation range	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit	ND	R
S	Spike Recovery outside accepted recovery limits	Not Detected at the Limit of Detection	RPD outside accepted recovery limits



CENTEK LABORATORIES, LLC

Date: 28-Mar-18

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
Work Order: C1803045
Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: AMB1UG-032018	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbv	Prep Date:	RunNo: 13408						
Client ID: ZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155421						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	< 0.040	0.040									
Chloroethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
trans-1,2-Dichloroethene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl chloride	< 0.040	0.040									

Qualifiers: . Results reported are not blank corrected E Estimated Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limit ND Not Detected at the Limit of Detection R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Date: 28-Mar-18

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
Work Order: C1803045
Project: 691 St Paul St.
TestCode: 0.20_NYS

Sample ID: C1803045-011A MS **SampType:** MS **TestCode:** 0.20_NYS **Units:** ppbv **Prep Date:** RunNo: 13408
Client ID: 691-AI-11 MS/MSD **Batch ID:** R13408 **TestNo:** TO-15 **Analysis Date:** 3/20/2018 **SeqNo:** 155437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130				
Chloroethane	0.9000	0.15	1	0	90.0	70	130				
cis-1,2-Dichloroethene	1.130	0.040	1	0.18	95.0	70	130				
trans-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130				
Trichloroethene	1.110	0.030	1	0.14	97.0	70	130				
Vinyl chloride	0.8300	0.040	1	0	83.0	70	130				

Sample ID: C1803045-011A MS **SampType:** MSD **TestCode:** 0.20_NYS **Units:** ppbv **Prep Date:** RunNo: 13408
Client ID: 691-AI-11 MS/MSD **Batch ID:** R13408 **TestNo:** TO-15 **Analysis Date:** 3/20/2018 **SeqNo:** 155438

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130	0.73	0	30	
Chloroethane	0.8200	0.15	1	0	82.0	70	130	0.9	9.30	30	
cis-1,2-Dichloroethene	1.060	0.040	1	0.18	88.0	70	130	1.13	6.39	30	
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
Trichloroethene	1.060	0.030	1	0.14	92.0	70	130	1.11	4.61	30	
Vinyl chloride	0.8200	0.040	1	0	82.0	70	130	0.83	1.21	30	

Qualifiers:
J Results reported are not blank corrected
S Analyte detected below quantitation limit
E Estimated Value above quantitation range
ND Not Detected at the Limit of Detection
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories
IDL Study

1ug/m3 Detection Limit
October 2017

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #8	IDL #9	AVG	StdDev	%Rec	IDL
Propylene	0.3	0.33	0.33	0.32	0.32	0.37	0.33	0.33	0.33	0.33	0.02	111.0%	0.054
Freon 12	0.3	0.35	0.35	0.36	0.36	0.35	0.32	0.32	0.36	0.35	0.01	116.2%	0.042
Chloromethane	0.3	0.34	0.35	0.36	0.37	0.36	0.34	0.34	0.33	0.34	0.02	112.4%	0.059
Freon 114	0.3	0.34	0.37	0.36	0.37	0.37	0.32	0.32	0.33	0.35	0.02	117.1%	0.066
Vinyl Chloride	0.3	0.33	0.32	0.35	0.35	0.34	0.32	0.32	0.32	0.33	0.01	111.0%	0.043
Butane	0.3	0.35	0.34	0.37	0.37	0.39	0.33	0.35	0.35	0.36	0.02	119.0%	0.065
1,3-butadiene	0.3	0.3	0.38	0.34	0.35	0.35	0.29	0.31	0.31	0.33	0.03	111.0%	0.105
Bromomethane	0.3	0.35	0.36	0.39	0.38	0.37	0.35	0.35	0.36	0.37	0.02	121.9%	0.048
Chloroethane	0.3	0.36	0.33	0.35	0.38	0.41	0.36	0.34	0.34	0.36	0.03	120.5%	0.084
Ethanol	0.3	0.44	0.3	0.34	0.32	0.4	0.34	0.35	0.35	0.36	0.06	118.6%	0.152
Acrolein	0.3	0.36	0.35	0.34	0.36	0.37	0.36	0.36	0.35	0.36	0.01	118.6%	0.031
Vinyl Bromide	0.3	0.35	0.35	0.38	0.36	0.37	0.34	0.35	0.35	0.36	0.01	119.0%	0.043
Freon 11	0.3	0.35	0.34	0.35	0.36	0.37	0.33	0.35	0.35	0.35	0.01	116.7%	0.041
Acetone	0.3	0.34	0.34	0.39	0.37	0.32	0.35	0.29	0.31	0.34	0.03	114.3%	0.102
Pentane	0.3	0.36	0.35	0.36	0.36	0.35	0.3	0.38	0.38	0.35	0.02	117.1%	0.076
Isopropyl alcohol	0.3	0.36	0.35	0.37	0.4	0.39	0.32	0.35	0.35	0.36	0.03	121.0%	0.085
1,1-dichloroethane	0.3	0.37	0.3	0.32	0.37	0.32	0.28	0.31	0.31	0.32	0.03	108.1%	0.107
Freon 113	0.3	0.33	0.3	0.32	0.32	0.32	0.31	0.31	0.31	0.32	0.01	105.2%	0.031
1-Butyl alcohol	0.3	0.3	0.31	0.32	0.33	0.33	0.24	0.3	0.3	0.30	0.03	101.4%	0.097
Methylene chloride	0.3	0.35	0.34	0.35	0.35	0.35	0.33	0.33	0.31	0.34	0.02	113.3%	0.046
Amyl chloride	0.3	0.35	0.3	0.32	0.31	0.32	0.32	0.32	0.31	0.32	0.02	106.2%	0.049
Carbon disulfide	0.3	0.33	0.32	0.31	0.34	0.33	0.32	0.32	0.32	0.32	0.01	108.1%	0.031
trans-1,2-dichloroethene	0.3	0.31	0.3	0.33	0.31	0.32	0.31	0.31	0.3	0.31	0.01	103.8%	0.034
methyl tert-butyl ether	0.3	0.31	0.3	0.32	0.32	0.33	0.3	0.31	0.31	0.31	0.01	104.3%	0.035
1,1-dichloroethane	0.3	0.32	0.31	0.29	0.32	0.32	0.31	0.31	0.31	0.31	0.01	103.8%	0.034
Vinyl acetate	0.3	0.32	0.32	0.29	0.32	0.33	0.32	0.32	0.32	0.32	0.01	105.7%	0.039
Methyl Ethyl Ketone	0.3	0.31	0.31	0.34	0.33	0.32	0.28	0.31	0.31	0.31	0.02	104.8%	0.060
cis-1,2-dichloroethene	0.3	0.32	0.31	0.28	0.31	0.32	0.3	0.31	0.31	0.31	0.01	102.4%	0.043
Hexane	0.3	0.31	0.31	0.25	0.32	0.33	0.31	0.31	0.31	0.31	0.03	101.9%	0.081
Ethyl acetate	0.3	0.28	0.32	0.32	0.33	0.33	0.29	0.31	0.31	0.31	0.02	103.8%	0.061
Chloroform	0.3	0.31	0.31	0.32	0.3	0.33	0.31	0.31	0.32	0.31	0.01	104.8%	0.031
Tetrahydrofuran	0.3	0.33	0.3	0.3	0.33	0.3	0.3	0.3	0.32	0.31	0.01	103.8%	0.046
1,2-dichloroethane	0.3	0.31	0.32	0.33	0.3	0.33	0.31	0.32	0.31	0.32	0.01	105.7%	0.035
1,1,1-trichloroethane	0.3	0.33	0.32	0.33	0.34	0.34	0.31	0.31	0.33	0.33	0.01	109.5%	0.034
Cyclohexane	0.3	0.31	0.3	0.34	0.33	0.31	0.3	0.33	0.33	0.32	0.02	105.7%	0.050
Carbon tetrachloride	0.3	0.32	0.31	0.32	0.32	0.33	0.29	0.33	0.33	0.32	0.01	105.7%	0.043
Benzene	0.3	0.31	0.32	0.32	0.33	0.32	0.3	0.32	0.32	0.32	0.01	105.7%	0.030
Methyl methacrylate	0.3	0.3	0.32	0.31	0.33	0.33	0.3	0.3	0.32	0.32	0.01	105.2%	0.040

Confidential

Centek Laboratories IDL Study	1ug/m3 Detection Limit October 2017										Method TO-15 Units=ppb		
	0.3	0.28	0.29	0.31	0.32	0.32	0.31	0.24	0.26	0.29		0.03	
1,4-dioxane	0.3	0.32	0.31	0.31	0.32	0.32	0.31	0.24	0.26	0.29	0.03	96.2%	0.097
2,2,4-trimethylpentane	0.3	0.32	0.31	0.31	0.28	0.31	0.31	0.31	0.31	0.31	0.01	102.4%	0.039
Heptane	0.3	0.32	0.3	0.3	0.33	0.33	0.3	0.3	0.31	0.31	0.01	104.3%	0.043
Trichloroethene	0.3	0.3	0.3	0.29	0.28	0.3	0.3	0.3	0.28	0.29	0.01	97.6%	0.030
1,2-dichloropropane	0.3	0.32	0.31	0.31	0.35	0.31	0.31	0.31	0.32	0.32	0.01	106.2%	0.046
Bromodichloromethane	0.3	0.32	0.33	0.33	0.34	0.33	0.33	0.32	0.31	0.33	0.01	108.9%	0.031
cis-1,3-dichloropropene	0.3	0.31	0.32	0.31	0.34	0.32	0.31	0.31	0.32	0.32	0.01	106.2%	0.034
trans-1,3-dichloropropene	0.3	0.31	0.33	0.33	0.33	0.33	0.31	0.31	0.32	0.32	0.01	107.6%	0.030
1,1,2-trichloroethane	0.3	0.32	0.34	0.33	0.32	0.33	0.3	0.3	0.32	0.32	0.01	107.6%	0.039
Toluene	0.3	0.32	0.31	0.32	0.32	0.32	0.31	0.31	0.29	0.31	0.01	104.3%	0.035
Methyl Isobutyl Ketone	0.3	0.27	0.29	0.28	0.31	0.31	0.31	0.2	0.23	0.27	0.04	90.0%	0.130
Dibromochloromethane	0.3	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.3	0.32	0.01	105.7%	0.030
Methyl Butyl Ketone	0.3	0.23	0.25	0.26	0.29	0.29	0.2	0.2	0.3	0.25	0.04	81.9%	0.119
1,2-dibromoethane	0.3	0.32	0.31	0.32	0.32	0.32	0.32	0.29	0.3	0.31	0.01	103.8%	0.038
Tetrachloroethylene	0.3	0.31	0.3	0.32	0.31	0.31	0.31	0.29	0.3	0.30	0.01	101.9%	0.031
Chlorobenzene	0.3	0.31	0.31	0.31	0.29	0.31	0.31	0.3	0.29	0.30	0.01	101.0%	0.030
Ethylbenzene	0.3	0.31	0.32	0.32	0.3	0.32	0.28	0.28	0.3	0.31	0.01	102.4%	0.047
m&p-xylene	0.6	0.64	0.61	0.63	0.55	0.64	0.63	0.63	0.63	0.63	0.01	105.9%	0.039
Nonane	0.3	0.31	0.35	0.32	0.32	0.32	0.3	0.3	0.3	0.32	0.01	105.7%	0.054
Styrene	0.3	0.27	0.31	0.3	0.3	0.3	0.3	0.29	0.3	0.30	0.01	99.5%	0.046
Bromoform	0.3	0.3	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.32	0.01	105.2%	0.031
o-xylene	0.3	0.32	0.32	0.32	0.32	0.32	0.35	0.35	0.31	0.32	0.01	107.6%	0.039
Cumene	0.3	0.32	0.31	0.32	0.31	0.32	0.29	0.29	0.3	0.31	0.01	103.3%	0.036
Bromofluorobenzene	1	1.01	1	1	0.99	1.01	1	1	1.02	1.00	0.01	100.4%	0.031
1,1,2,2-tetrachloroethane	0.3	0.32	0.33	0.32	0.33	0.33	0.31	0.31	0.31	0.32	0.01	107.1%	0.028
Propylbenzene	0.3	0.32	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.01	101.0%	0.030
2-Chlorotoluene	0.3	0.31	0.31	0.31	0.31	0.31	0.31	0.27	0.3	0.30	0.01	101.0%	0.047
4-ethyltoluene	0.3	0.31	0.3	0.3	0.3	0.32	0.29	0.29	0.3	0.30	0.01	101.0%	0.030
1,3,5-trimethylbenzene	0.3	0.31	0.31	0.31	0.31	0.31	0.29	0.29	0.29	0.30	0.01	101.4%	0.031
1,2,4-trimethylbenzene	0.3	0.3	0.31	0.31	0.31	0.31	0.27	0.27	0.3	0.30	0.01	100.5%	0.046
1,3-dichlorobenzene	0.3	0.31	0.3	0.3	0.3	0.3	0.27	0.27	0.3	0.30	0.01	99.0%	0.039
benzyl chloride	0.3	0.32	0.33	0.34	0.32	0.34	0.28	0.28	0.32	0.32	0.02	107.1%	0.064
1,4-dichlorobenzene	0.3	0.3	0.29	0.3	0.3	0.3	0.28	0.28	0.28	0.29	0.01	97.6%	0.030
1,2,3-trimethylbenzene	0.3	0.31	0.31	0.31	0.31	0.31	0.28	0.28	0.31	0.31	0.01	101.9%	0.036
1,2-dichlorobenzene	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.3	0.3	0.30	0.01	98.6%	0.036
1,2,4-trichlorobenzene	0.3	0.27	0.26	0.27	0.27	0.28	0.25	0.25	0.27	0.27	0.01	90.0%	0.031
Naphthalene	0.3	0.27	0.27	0.27	0.27	0.27	0.22	0.22	0.25	0.26	0.02	87.1%	0.064
Hexachloro-1,3-butadiene	0.3	0.3	0.3	0.3	0.3	0.3	0.27	0.27	0.29	0.29	0.01	98.1%	0.036

Confidential

Centek Laboratories
IDL Study

0.2 ug/m3 Detection Limit
October 2017

Method TO-15
Units=ppb

Compound	Amt	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #9	IDL #10	AVG	StdDev	%Rec	IDL
Vinyl Chloride	0.1	0.1100	0.1300	0.1100	0.1300	0.1200	0.1100	0.1300	0.12	0.01	120.0%	0.031
Carbon tetrachloride	0.1	0.0900	0.1100	0.1100	0.1100	0.1100	0.0900	0.1200	0.11	0.01	105.7%	0.036
Trichloroethene	0.1	0.0900	0.1000	0.1000	0.1000	0.1000	0.0900	0.1200	0.10	0.01	100.0%	0.031

Confidential

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$\text{RRF} = \frac{A_x * C_{is}}{A_{is} * C_x}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 C_x = concentration of the compound being measured (ppbv)
 C_{is} = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% \text{ RSD} = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% \text{ D} = \frac{(\text{RRF}_c - \text{mean RRF}_i) * 100}{\text{mean RRF}_i}$$

where: RRF_c = relative response factor from the continuing calibration
 mean RRF_i = mean relative response factor from the initial calibration

Sample Calculations

$$\text{ppbv} = \frac{A_x * I_s * D_f}{A_{is} * \text{RRF}}$$

where: A_x = area of the characteristic ion for the compound being measured
 A_{is} = area of the characteristic ion for the specific internal standard of the compound being measured
 I_s = Concentration of the internal standard injected (ppbv)
 RRF = relative response factor for the compound being measured
 D_f = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-001A

Client Sample ID: 691-AI-01
 Tag Number: 188.338
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 12:16:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 12:16:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 12:16:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 12:16:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 12:16:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte, Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-001A

Client Sample ID: 691-A1-01
Tag Number: 188.338
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:16:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:16:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:16:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:16:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032020.D
 Acq On : 21 Mar 2018 12:16 am
 Sample : C1803045-001A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:44 2018

Vial: 20
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.48	128	52385	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	197971	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	149199	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	89458	0.87	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	87.00%	

Target Compounds Qvalue

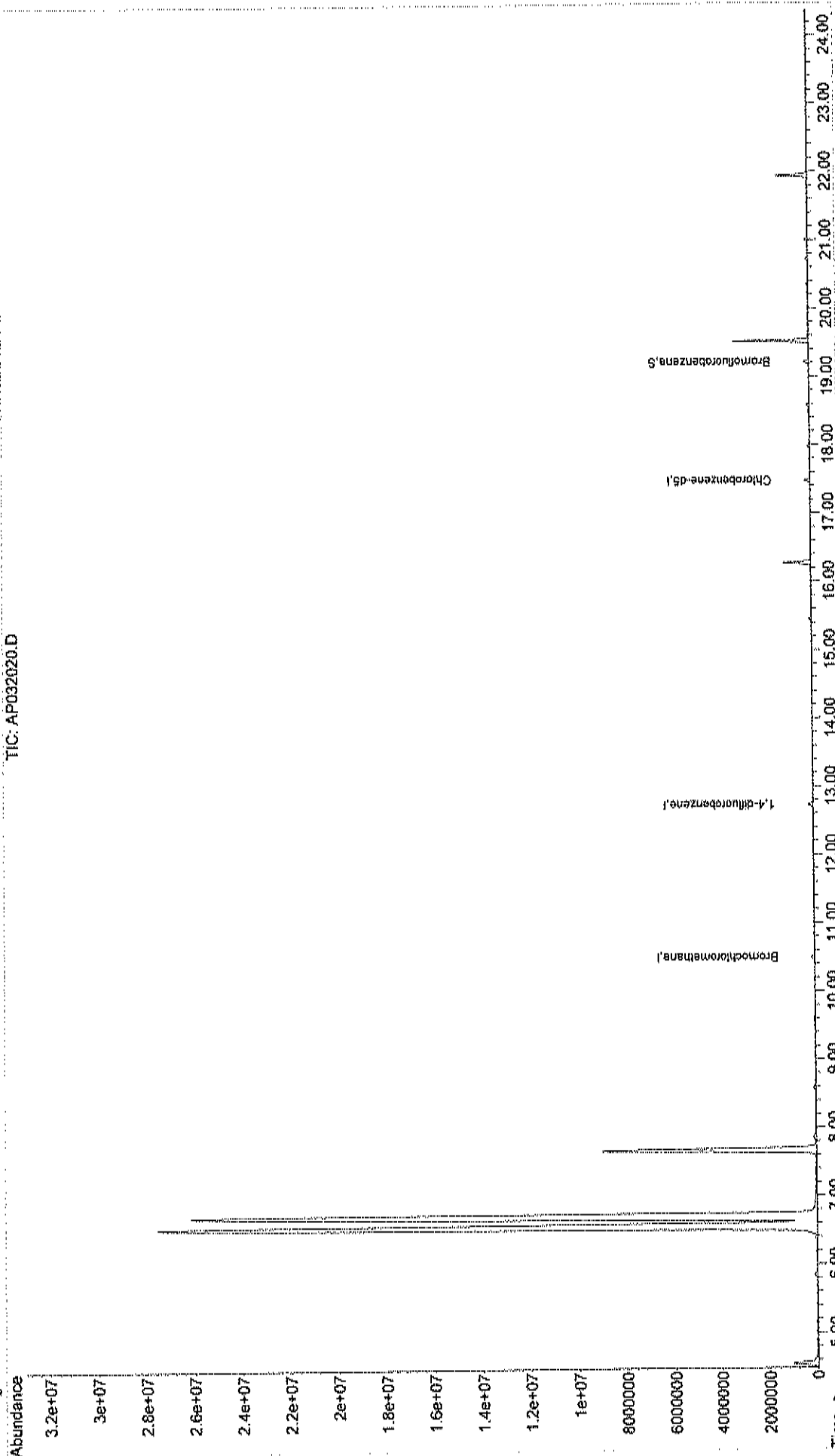
Data File : C:\HPCHEM\1\DATA\AP032020.D
Acq On : 21 Mar 2018 12:16 am
Sample : C1803045-001A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:13 2018

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

TIC: AP032020.D



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-002A

Client Sample ID: 691-A1-02
Tag Number: 365.342
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 12:57:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 12:57:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 12:57:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 12:57:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 12:57:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-002A

Client Sample ID: 691-AI-02
 Tag Number: 365,342
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 12:57:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 12:57:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 12:57:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 12:57:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032021.D
 Acq On : 21 Mar 2018 12:57 am
 Sample : C1803045-002A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:45 2018

Vial: 21
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	48637	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	191827	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	146559	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 19.21 95 87877 0.87 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 87.00%

Target Compounds

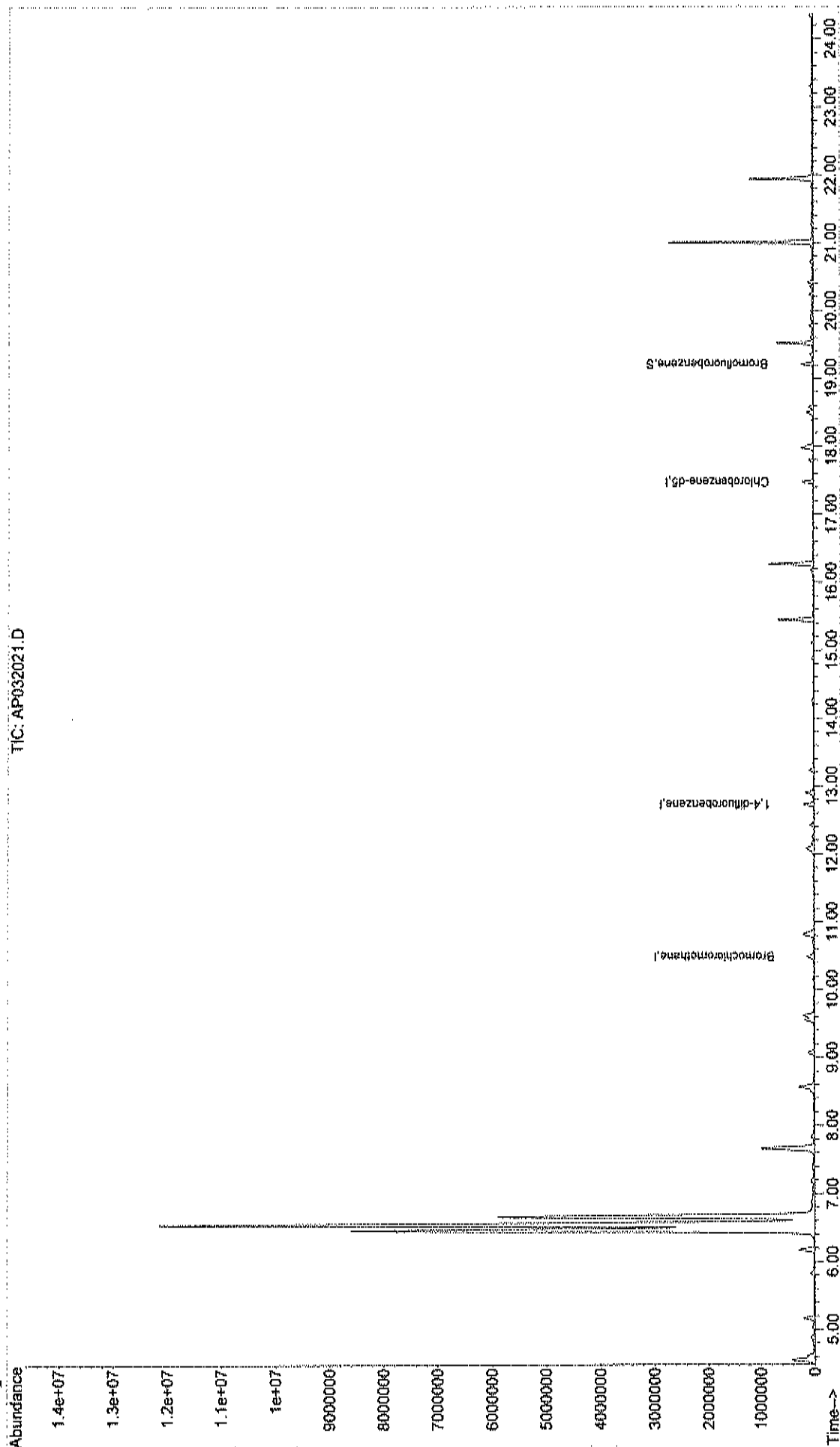
Qvalue

Data File : C:\HPCHEM\1\DATA\AP032021.D
Acq On : 21 Mar 2018 12:57 am
Sample : C1803045-002A
Misc : A318_LUG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:14 2018

Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_LUG.RES

Method : C:\HPCHEM\1\METHODS\A318_LUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-003A

Client Sample ID: 691-AI-03
 Tag Number: 189.296
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

FLD

Analyst:

Lab Vacuum In	-2			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018

1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE

TO-15

Analyst: RJP

1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 1:38:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 1:38:00 AM
Trichloroethene	< 0.030	0.030		ppbV	1	3/21/2018 1:38:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 1:38:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/21/2018 1:38:00 AM

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Date: 28-Mar-18

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-003A

Client Sample ID: 691-AI-03
Tag Number: 189.296
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 1:38:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 1:38:00 AM
Trichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 1:38:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 1:38:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032022.D Vial: 22
 Acq On : 21 Mar 2018 1:38 am Operator: RJP
 Sample : C1803045-003A Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:46 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.48	128	53744	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	197860	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	151590	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 91288 0.87 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 87.00%

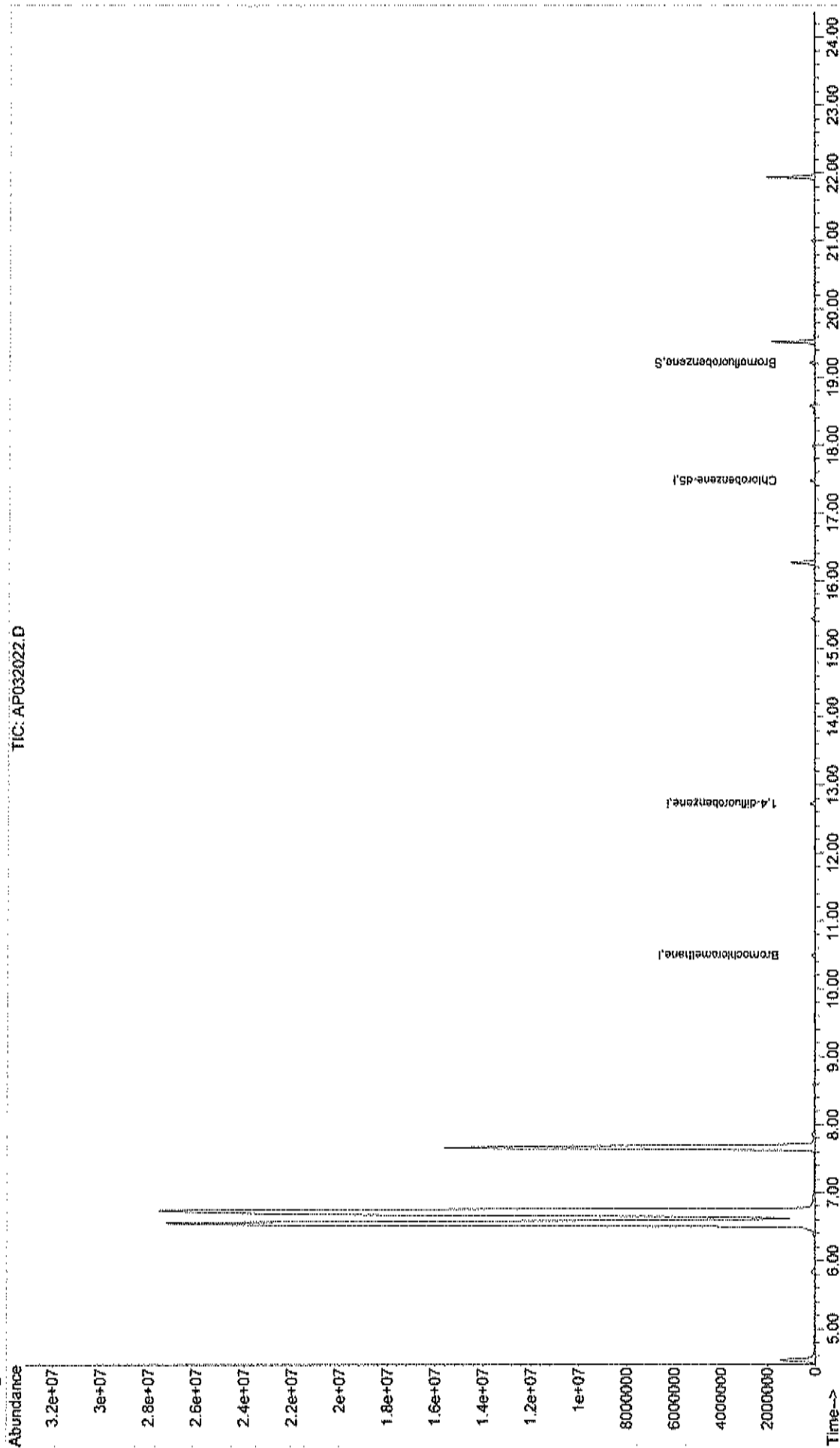
Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA\AP032022.D
Acq On : 21 Mar 2018 1:38 am
Sample : C1803045-003A
Misc : A318_1UG
MS Integration Params: RFEINT.P
Quant Time: Mar 21 14:14 2018

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RFE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



TIC: AP032022.D

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-04
Lab Order:	C1803045	Tag Number:	539.346
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-004A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
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FIELD PARAMETERS

FLD

Analyst:

Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018

1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE

TO-15

Analyst: RJP

1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 2:18:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 2:18:00 AM
Trichloroethene	0.040	0.030		ppbV	1	3/21/2018 2:18:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 2:18:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	3/21/2018 2:18:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte, Quantitation estimated,	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-004A

Client Sample ID: 691-AI-04
Tag Number: 539.346
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 2:18:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 2:18:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 2:18:00 AM
Trichloroethene	0.21	0.16		ug/m3	1	3/21/2018 2:18:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 2:18:00 AM

Qualifiers:

**	Quantitation Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032023.D
 Acq On : 21 Mar 2018 2:18 am
 Sample : C1803045-004A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:47 2018

Vial: 23
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

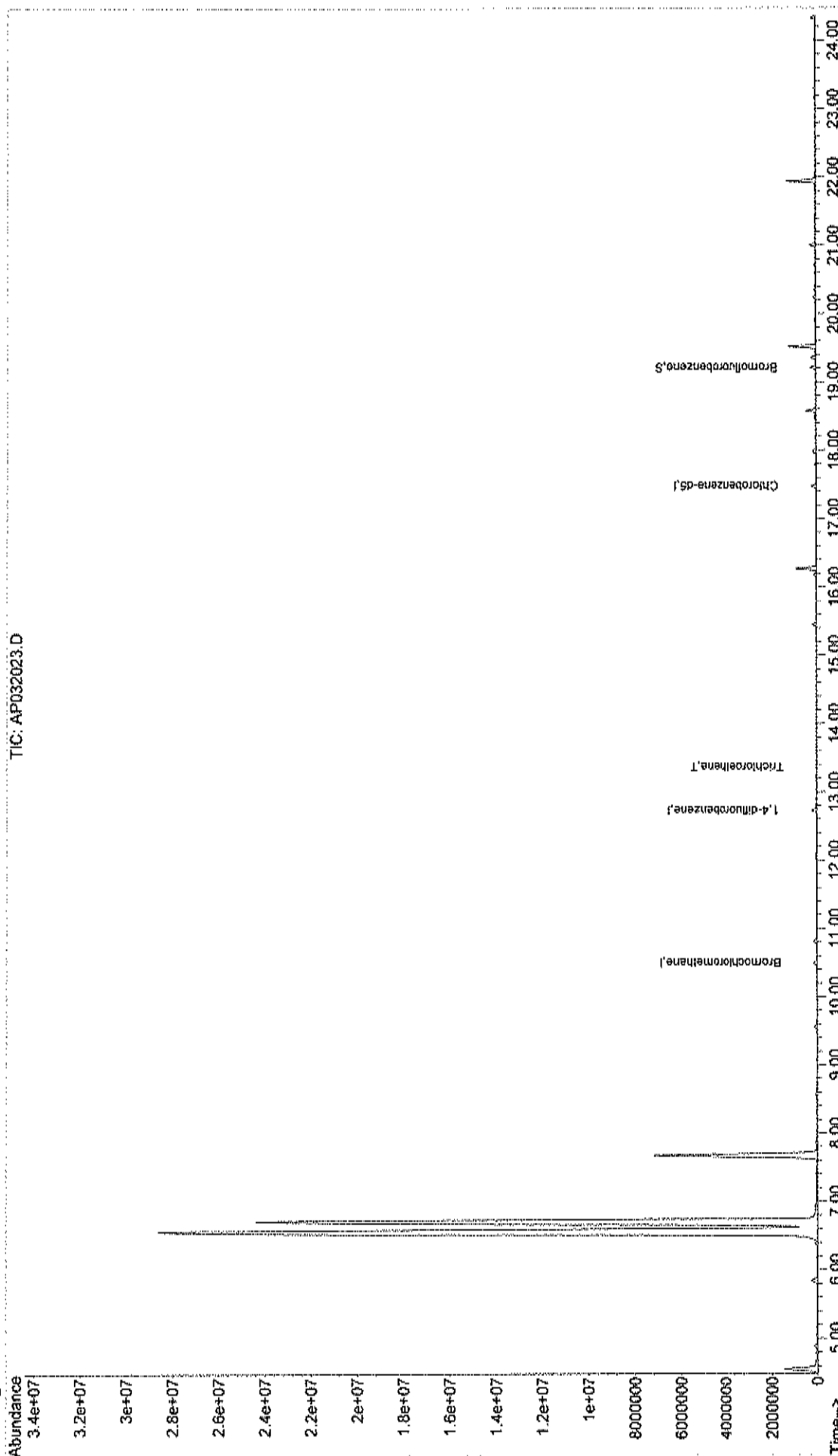
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	52181	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	198634	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	151530	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	92951	0.89	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	89.00%
Target Compounds						
44) Trichloroethene	13.36	130	5789	0.06	ppb	Qvalue 96

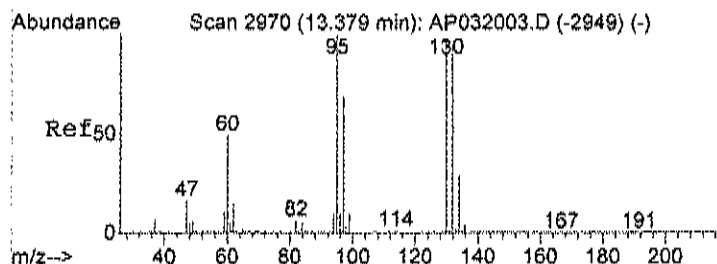
Data File : C:\HPCHEM\1\DATA\AP032023.D
Acq On : 21 Mar 2018 2:18 am
Sample : C1803045-004A
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:15 2018

Vial: 23
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

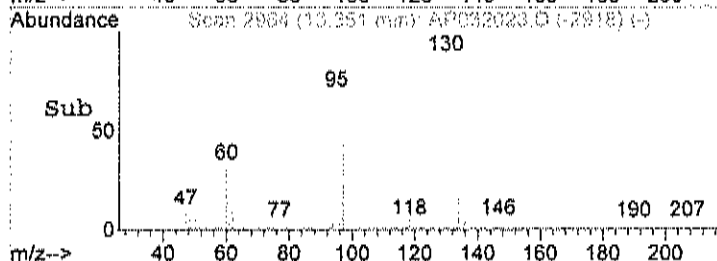
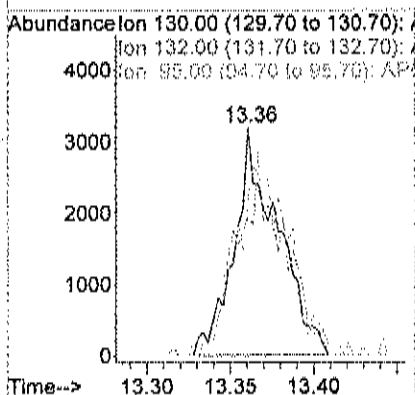
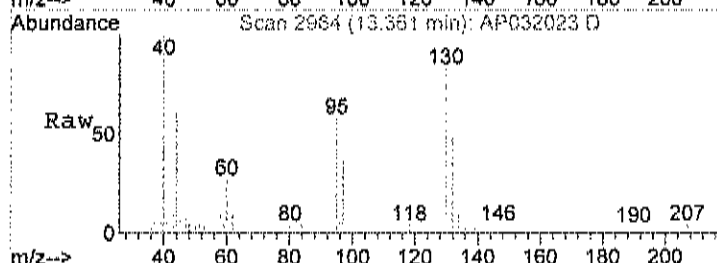
Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration





#44
 Trichloroethene
 Concen: 0.06 ppb
 RT: 13.36 min Scan# 2964
 Delta R.T. -0.01 min
 Lab File: AP032023.D
 Acq: 21 Mar 2018 2:18 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	94.7	75.8	115.8
95	100.0	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-005A

Client Sample ID: 691-AI-05
 Tag Number: 170.1168
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 3:00:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 3:00:00 AM
Trichloroethene	0.060	0.030		ppbV	1	3/21/2018 3:00:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 3:00:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	3/21/2018 3:00:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-005A

Client Sample ID: 691-AI-05
 Tag Number: 170.1168
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 3:00:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 3:00:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 3:00:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 3:00:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 3:00:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032024.D
 Acq On : 21 Mar 2018 3:00 am
 Sample : C1803045-005A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:48 2018

Vial: 24
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	51874	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	199002	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	158457	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	103072	0.94	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	94.00%
Target Compounds						Qvalue
44) Trichloroethene	13.36	130	5516	0.06	ppb	95

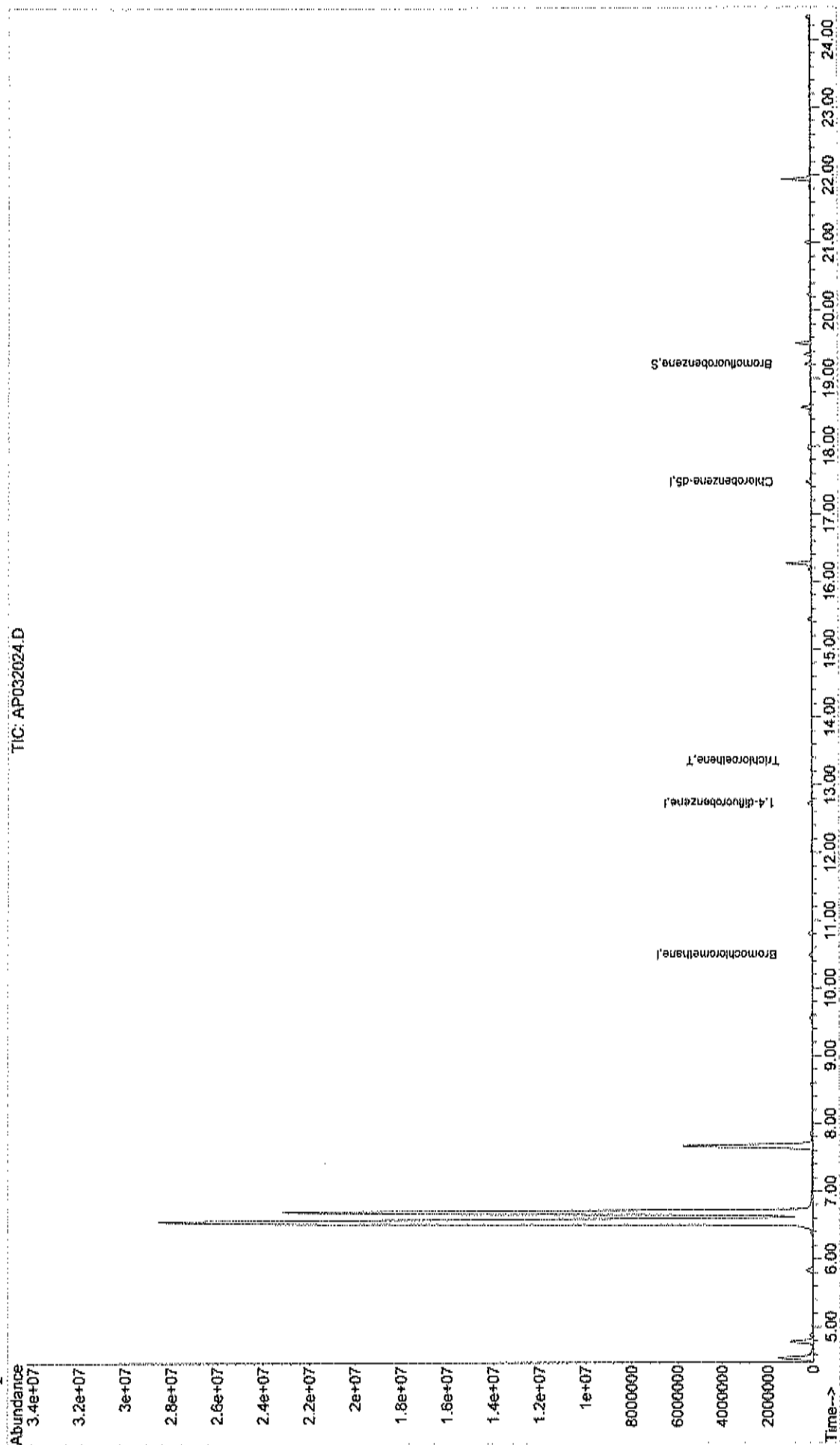
Data File : C:\HPCHEM\1\DATA\AP032024.D
Acq On : 21 Mar 2018 3:00 am
Sample : C1803045-005A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:16 2018

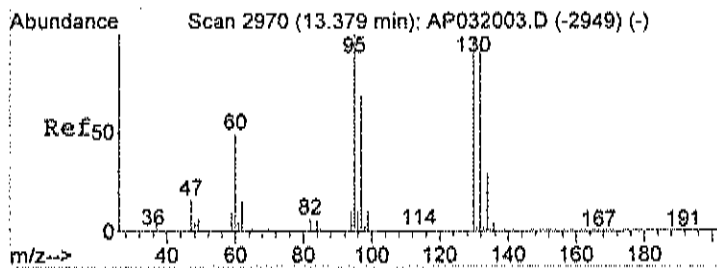
Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

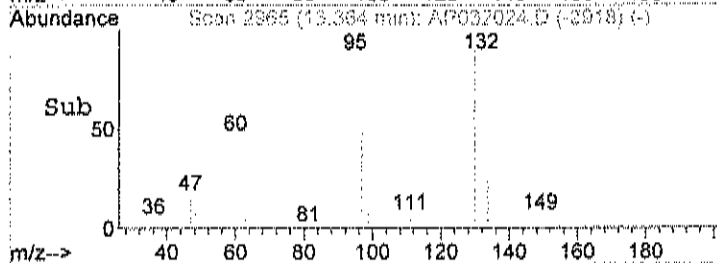
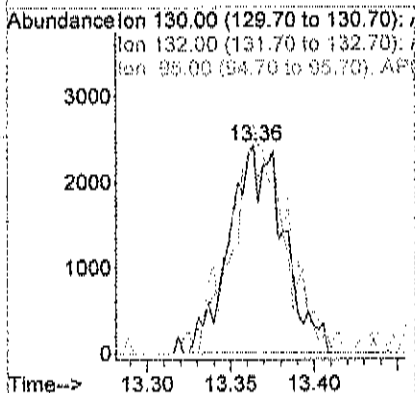
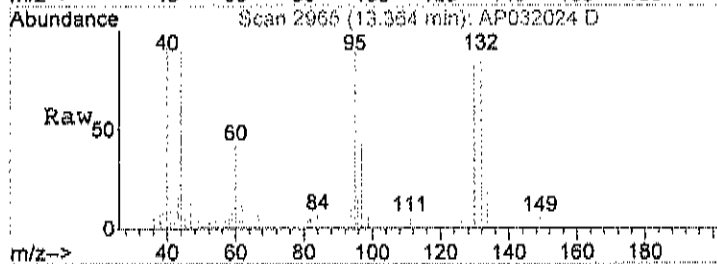
TIC: AP032024.D





#44
 Trichloroethene
 Concen: 0.06 ppb
 RT: 13.36 min Scan# 2965
 Delta R.T. -0.01 min
 Lab File: AP032024.D
 Acq: 21 Mar 2018 3:00 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	100.2	75.8	115.8
95	99.2	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-006A

Client Sample ID: 691-AI-06
Tag Number: 131.340
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 4:21:00 AM
cis-1,2-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 4:21:00 AM
Trichloroethene	0.060	0.030		ppbV	1	3/21/2018 4:21:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 4:21:00 AM
Surr: Bromofluorobenzene	104	70-130		%REC	1	3/21/2018 4:21:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte, Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-006A

Client Sample ID: 691-A1-06
 Tag Number: 131.340
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 4:21:00 AM
cis-1,2-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 4:21:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 4:21:00 AM
Trichloroethene	0.32	0.16		ug/m3	1	3/21/2018 4:21:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 4:21:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032026.D
 Acq On : 21 Mar 2018 4:21 am
 Sample : C1803045-006A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:50 2018

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	51192	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	191764	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	142990	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	103093	1.04	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	104.00%
Target Compounds						
44) Trichloroethene	13.37	130	5516	0.06	ppb	Qvalue 89

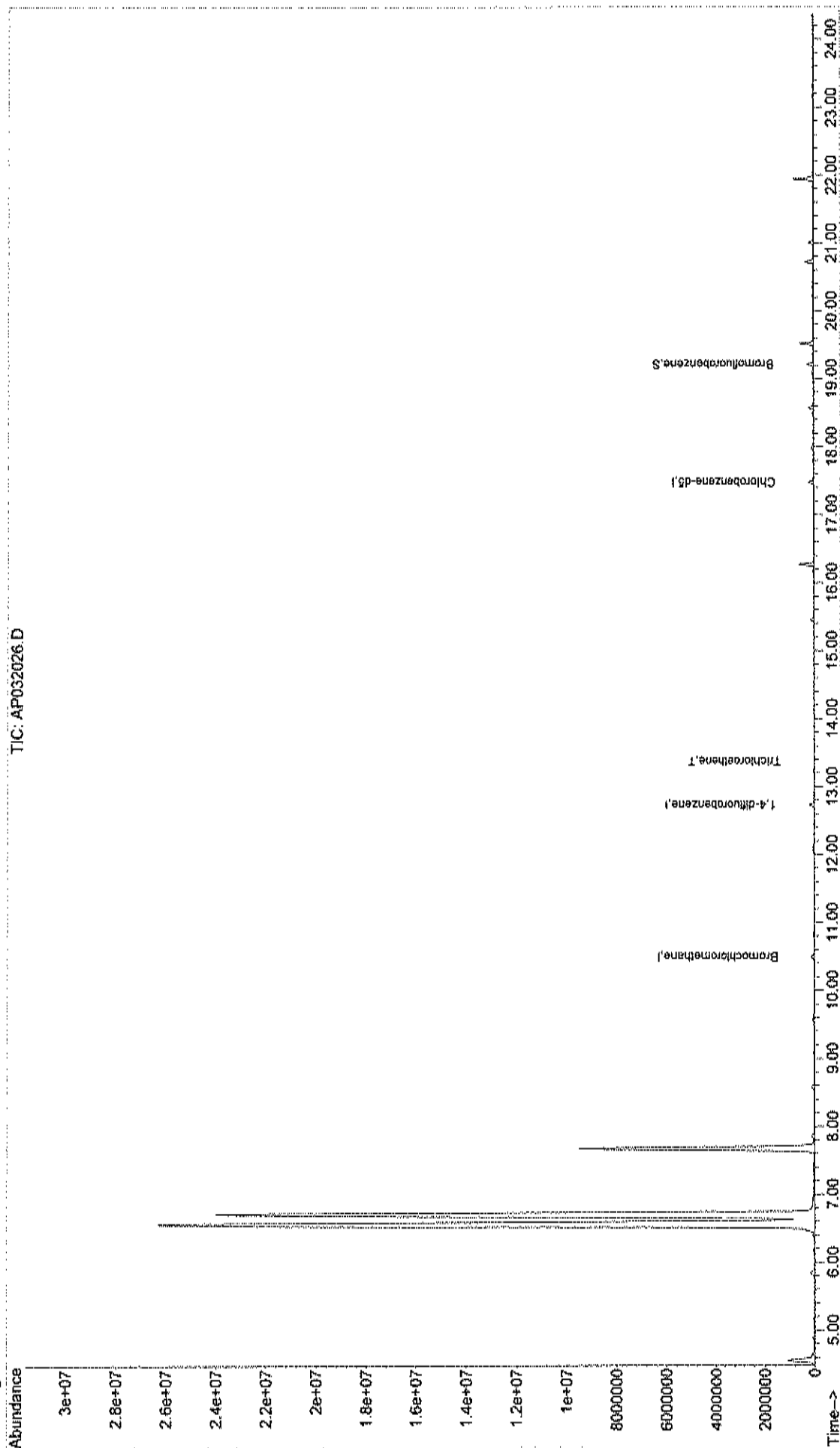
Data File : C:\HPCHEM\1\DATA\AP032026.D
Acq On : 21 Mar 2018 4:21 am
Sample : C1803045-006A
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:17 2018

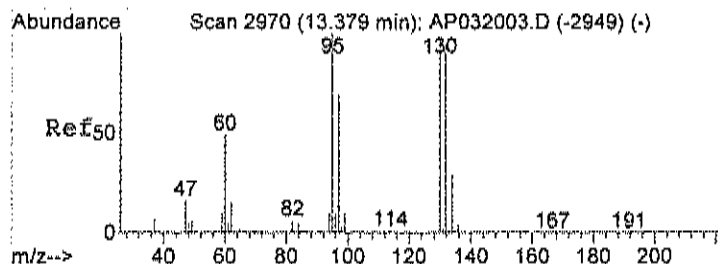
Vial: 25
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

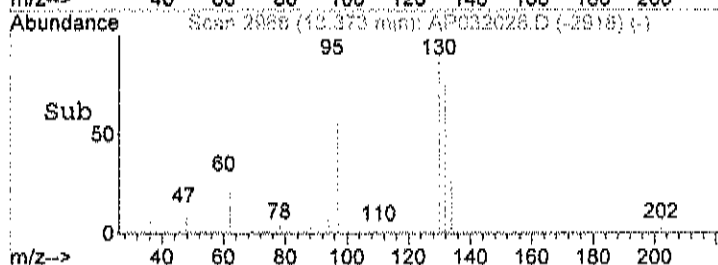
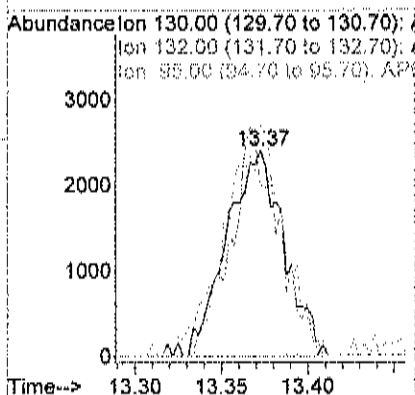
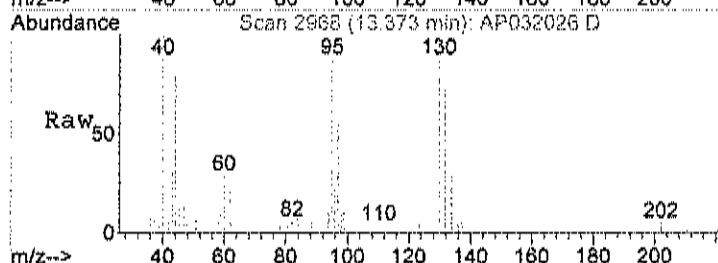
TIC: AP032026.D





#44
 Trichloroethene
 Concen: 0.06 ppb
 RT: 13.37 min Scan# 2968
 Delta R.T. -0.00 min
 Lab File: AP032026.D
 Acq: 21 Mar 2018 4:21 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	93.6	75.8	115.8
95	113.7	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-007A

Client Sample ID: 691-AI-07
Tag Number: 133.1164
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 5:03:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 5:03:00 AM
cis-1,2-Dichloroethene	0.14	0.040		ppbV	1	3/21/2018 5:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 5:03:00 AM
Trichloroethene	0.10	0.030		ppbV	1	3/21/2018 5:03:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 5:03:00 AM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	3/21/2018 5:03:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-007A

Client Sample ID: 691-AI-07
 Tag Number: 133.1164
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:03:00 AM
cis-1,2-Dichloroethene	0.55	0.16		ug/m3	1	3/21/2018 5:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:03:00 AM
Trichloroethene	0.54	0.16		ug/m3	1	3/21/2018 5:03:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 5:03:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032027.D
 Acq On : 21 Mar 2018 5:03 am
 Sample : C1803045-007A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:51 2018

Vial: 26
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	50470	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	188806	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	146012	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	93214	0.92	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	92.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.03	61	15003	0.14	ppb	84
44) Trichloroethene	13.37	130	9656	0.10	ppb	94

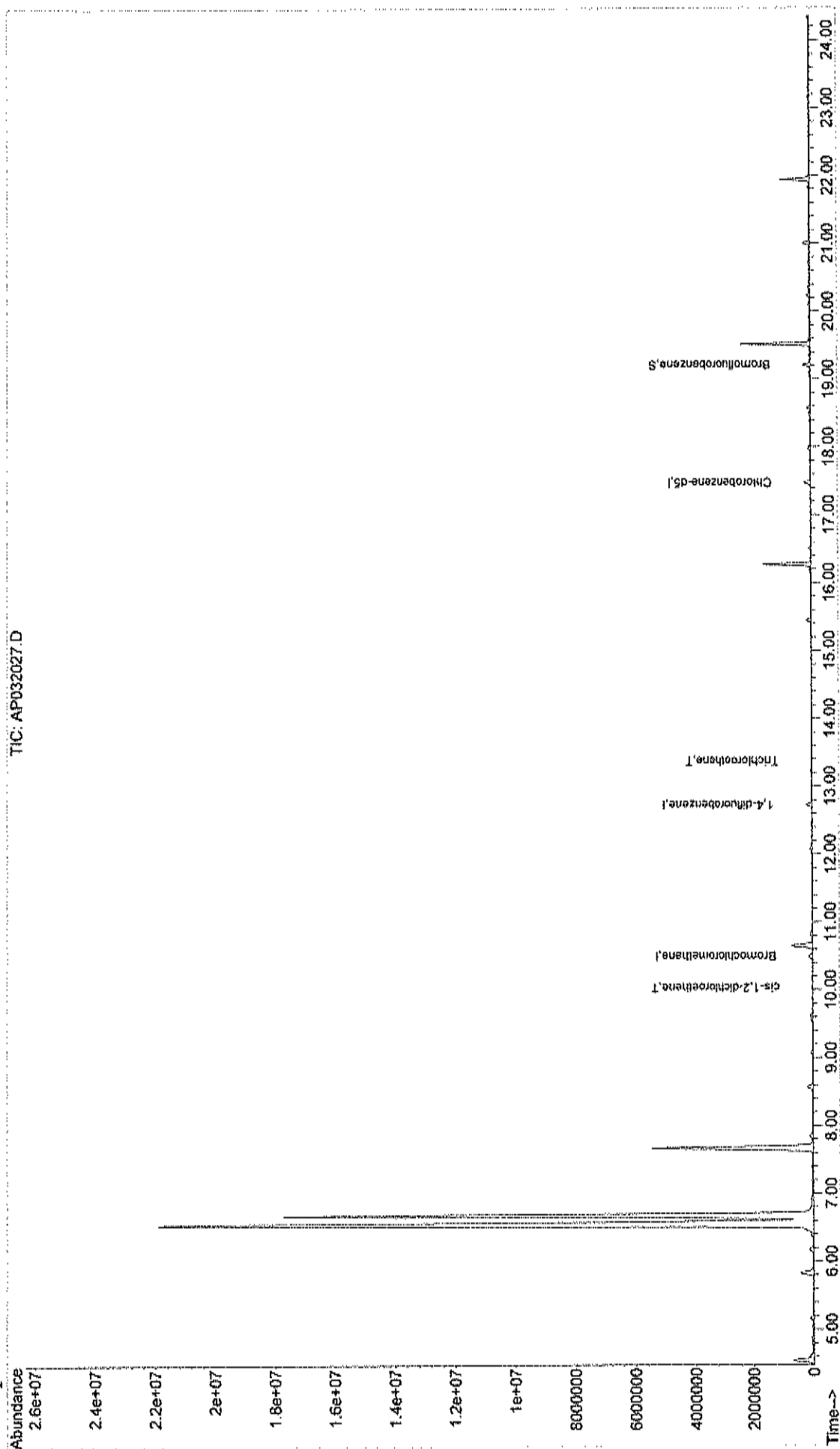
Data File : C:\HPCHEM\1\DATA\AP032027.D
Acq On : 21 Mar 2018 5:03 am
Sample : C1803045-007A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:17 2018

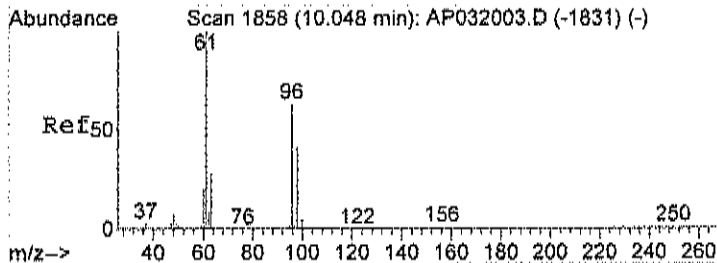
Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

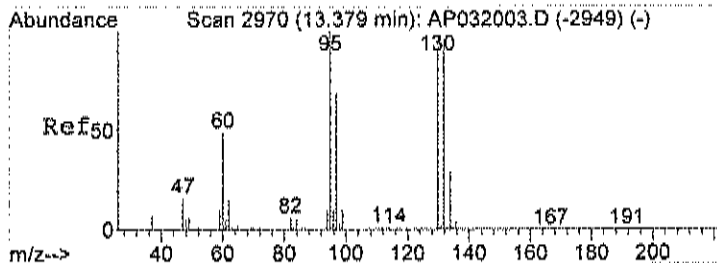
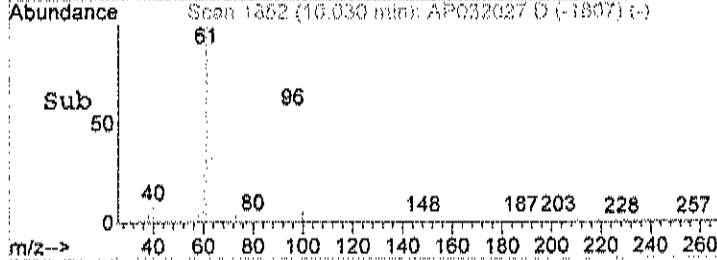
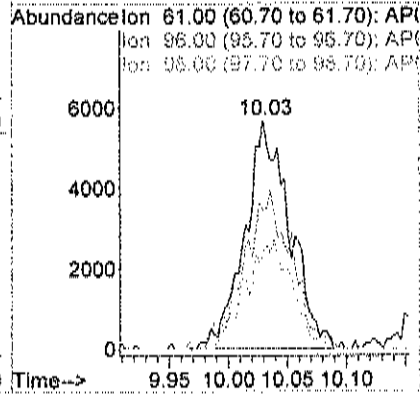
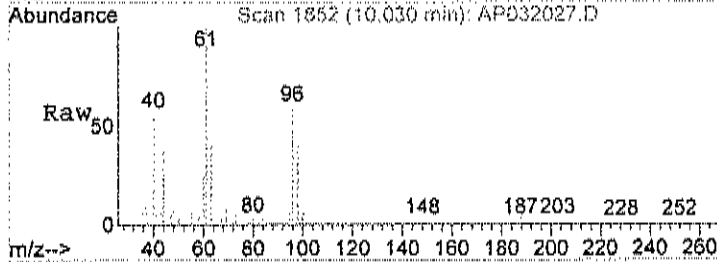
TIC: AP032027.D





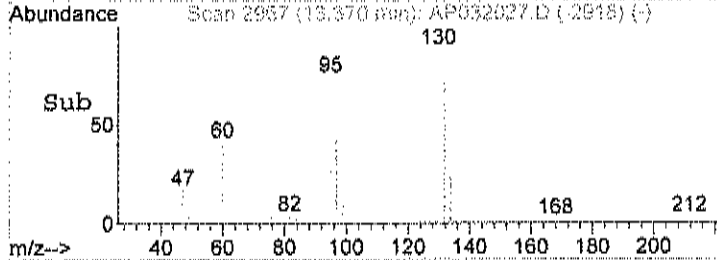
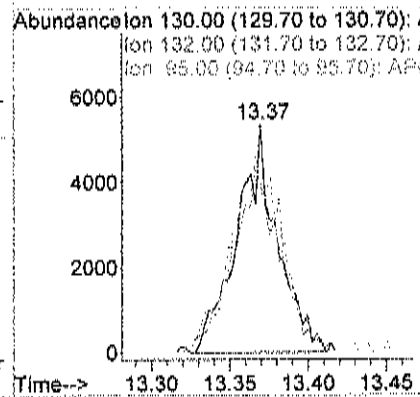
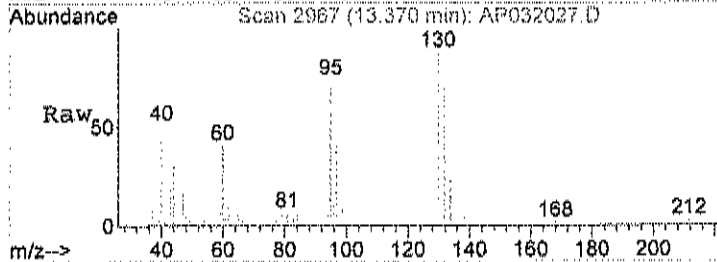
#29
 cis-1,2-dichloroethene
 Concen: 0.14 ppb
 RT: 10.03 min Scan# 1852
 Delta R.T. -0.02 min
 Lab File: AP032027.D
 Acq: 21 Mar 2018 5:03 am

Tgt Ion	Resp	Lower	Upper
61	15003		
96	71.2	62.1	102.1
98	38.0	33.3	73.3



#44
 Trichloroethene
 Concen: 0.10 ppb
 RT: 13.37 min Scan# 2967
 Delta R.T. -0.00 min
 Lab File: AP032027.D
 Acq: 21 Mar 2018 5:03 am

Tgt Ion	Resp	Lower	Upper
130	9656		
132	97.0	75.8	115.8
95	105.5	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-008A

Client Sample ID: 691-AI-08
Tag Number: 287.380
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD		Analyst:		
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15		Analyst: RJP		
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 5:44:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 5:44:00 AM
cis-1,2-Dichloroethene	0.22	0.040		ppbV	1	3/21/2018 5:44:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 5:44:00 AM
Trichloroethene	0.14	0.030		ppbV	1	3/21/2018 5:44:00 AM
Vinyl chloride	0.080	0.040		ppbV	1	3/21/2018 5:44:00 AM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	3/21/2018 5:44:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-008A

Client Sample ID: 691-AI-08
 Tag Number: 287.380
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE		TO-15				Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 5:44:00 AM
cis-1,2-Dichloroethene	0.87	0.16		ug/m3	1	3/21/2018 5:44:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 5:44:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 5:44:00 AM
Vinyl chloride	0.20	0.10		ug/m3	1	3/21/2018 5:44:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032028.D
 Acq On : 21 Mar 2018 5:44 am
 Sample : C1803045-008A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:52 2018

Vial: 27
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

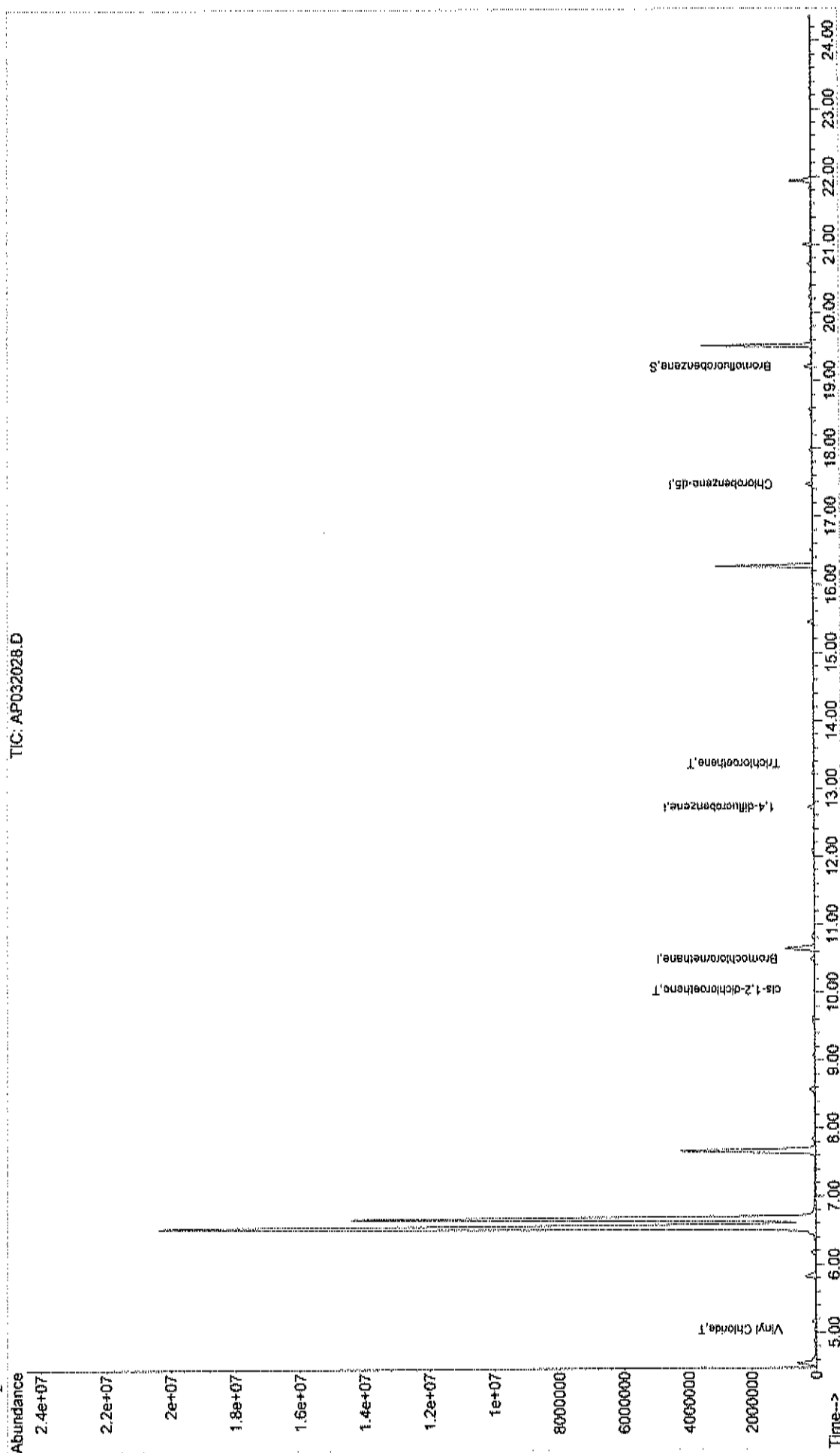
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.48	128	49557	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	187620	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	144764	1.00	ppb	0.00
System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	92899	0.93	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	93.00%	
Target Compounds						
6) Vinyl Chloride	5.05	62	5453	0.08	ppb	Qvalue 84
29) cis-1,2-dichloroethene	10.04	61	22702	0.22	ppb	92
44) Trichloroethene	13.37	130	12630	0.14	ppb	# 80

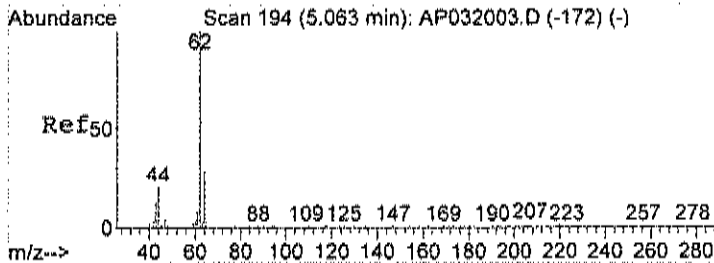
Data File : C:\HPCHEM\1\DATA\AP032028.D
Acq On : 21 Mar 2018 5:44 am
Sample : C1803045-008A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:18 2018
Quant Results File: A318_1UG.RES

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

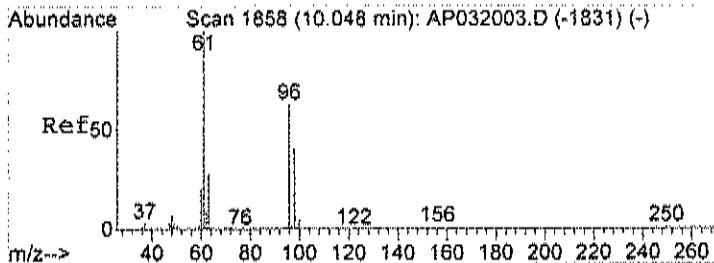
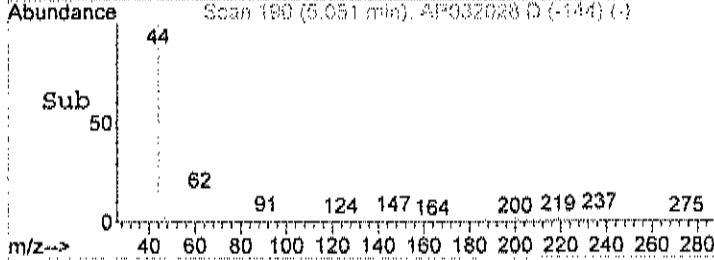
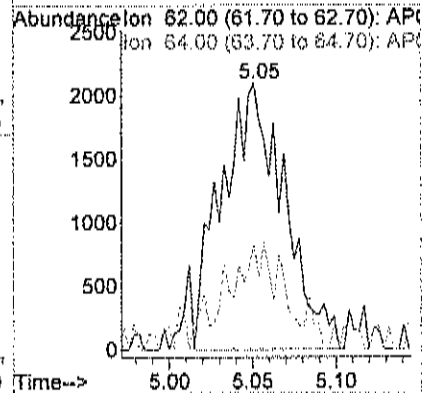
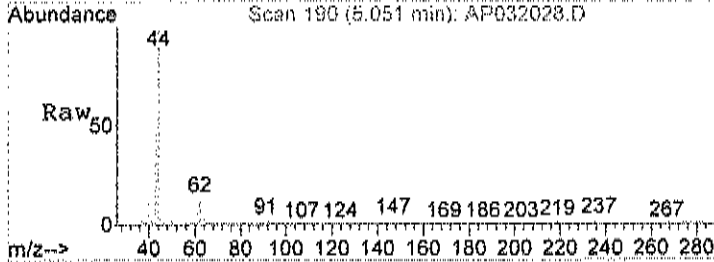
TIC: AP032028.D





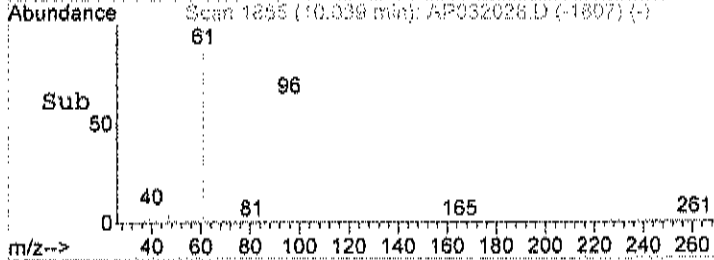
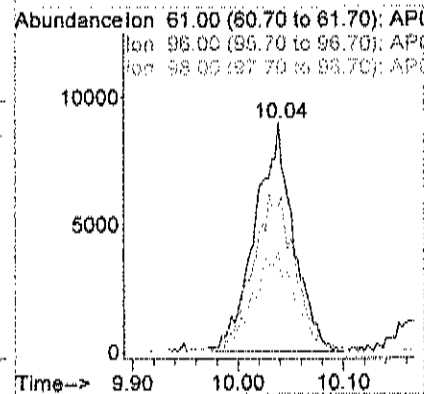
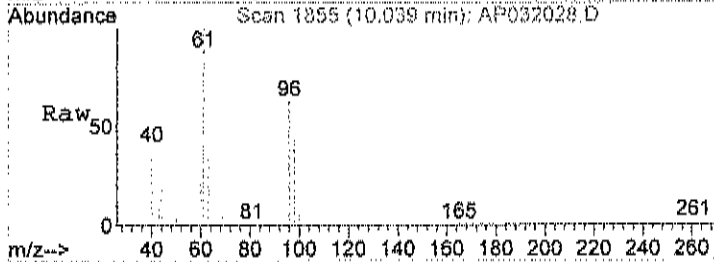
#6
 Vinyl Chloride
 Concen: 0.08 ppb
 RT: 5.05 min Scan# 190
 Delta R.T. -0.01 min
 Lab File: AP032028.D
 Acq: 21 Mar 2018 5:44 am

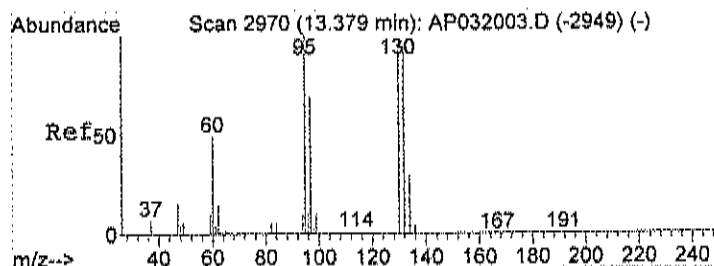
Tgt Ion: 62 Resp: 5453
 Ion Ratio Lower Upper
 62 100
 64 24.0 3.3 63.3



#29
 cis-1,2-dichloroethene
 Concen: 0.22 ppb
 RT: 10.04 min Scan# 1855
 Delta R.T. -0.01 min
 Lab File: AP032028.D
 Acq: 21 Mar 2018 5:44 am

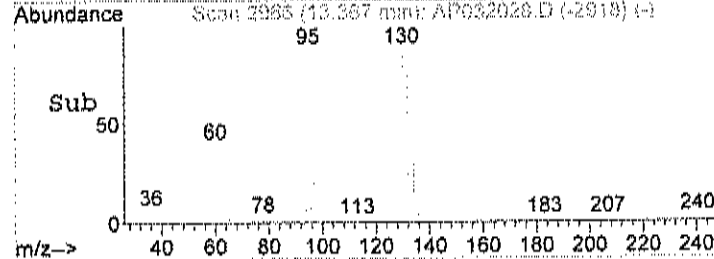
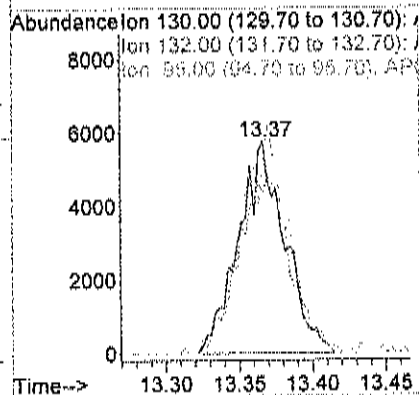
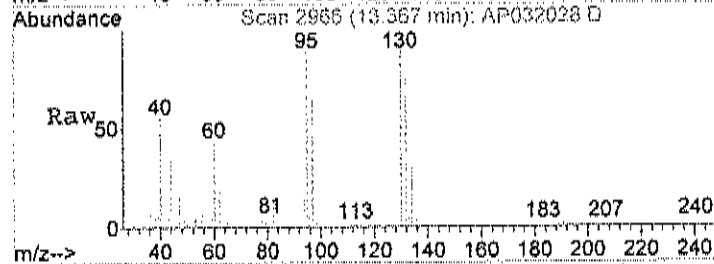
Tgt Ion: 61 Resp: 22702
 Ion Ratio Lower Upper
 61 100
 96 76.2 62.1 102.1
 98 46.2 33.3 73.3





#44
 Trichloroethene
 Concen: 0.14 ppb
 RT: 13.37 min Scan# 2966
 Delta R.T. -0.01 min
 Lab File: AP032028.D
 Acq: 21 Mar 2018 5:44 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	92.9	75.8	115.8
95	58.6	74.2	114.2#



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-009A

Client Sample ID: 691-A1-09
 Tag Number: 88.406
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS				FLD		Analyst:
Lab Vacuum In	-2			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 6:24:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 6:24:00 AM
cis-1,2-Dichloroethene	0.26	0.040		ppbV	1	3/21/2018 6:24:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 6:24:00 AM
Trichloroethene	0.12	0.030		ppbV	1	3/21/2018 6:24:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 6:24:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	3/21/2018 6:24:00 AM

Qualifiers: ** Quantitation Limit . Results reported are not blank corrected
 B Analyte detected in the associated Method Blank E Estimated Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limit
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Limit of Detection
 S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-009A

Client Sample ID: 691-AI-09
 Tag Number: 88.406
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 6:24:00 AM
cis-1,2-Dichloroethene	1.0	0.16		ug/m3	1	3/21/2018 6:24:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 6:24:00 AM
Trichloroethene	0.64	0.16		ug/m3	1	3/21/2018 6:24:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 6:24:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032029.D Vial: 28
 Acq On : 21 Mar 2018 6:24 am Operator: RJP
 Sample : C1803045-009A Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:53 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	47202	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	180426	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	144567	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 98383 0.99 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.03	61	25199	0.26	ppb	94
44) Trichloroethene	13.36	130	10702	0.12	ppb	89

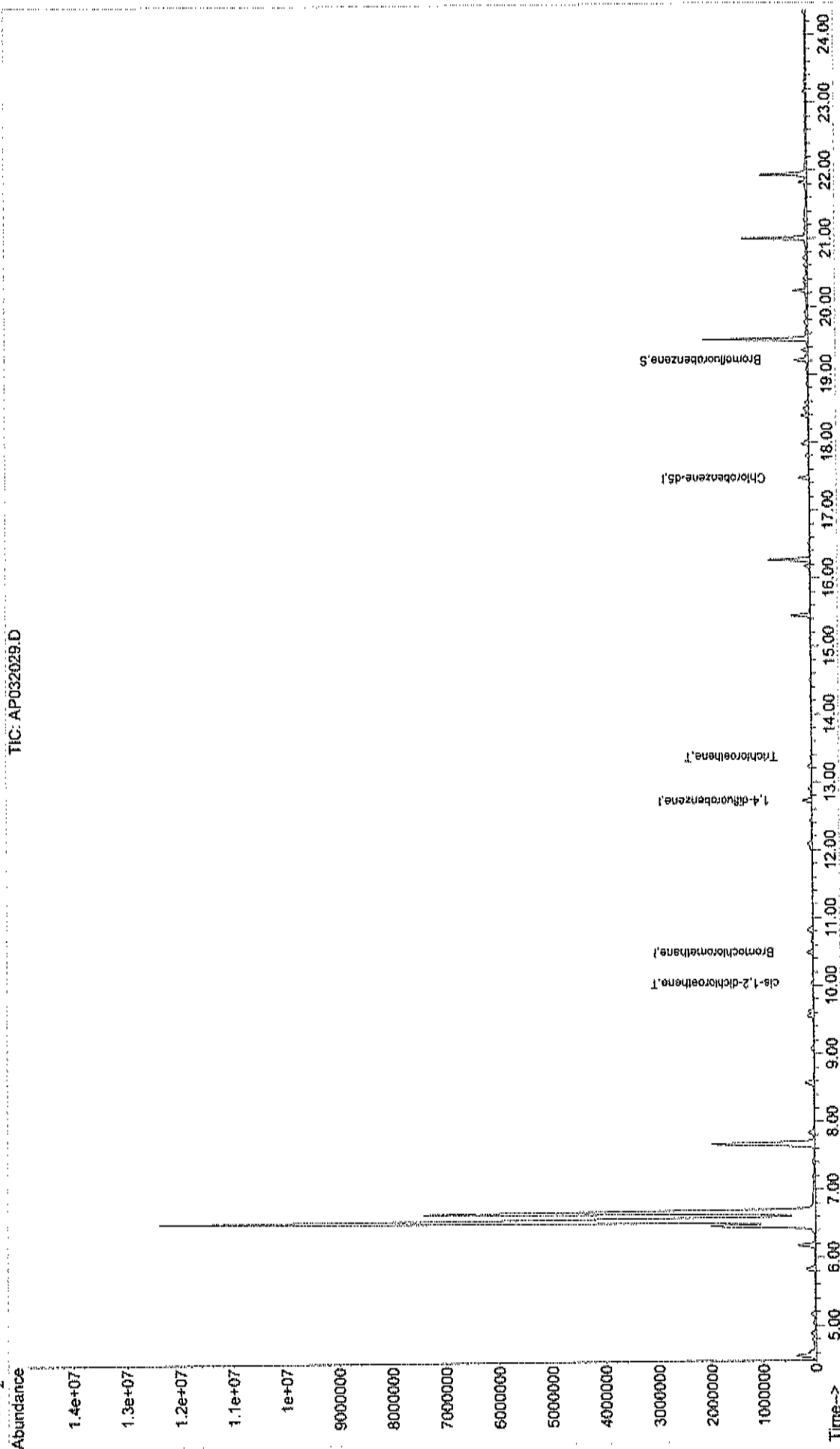
Data File : C:\HPCHEM\1\DATA\AP032029.D
Acq On : 21 Mar 2018 6:24 am
Sample : C1803045-009A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:19 2018

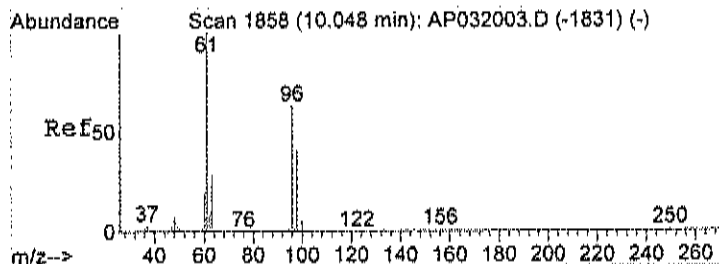
Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

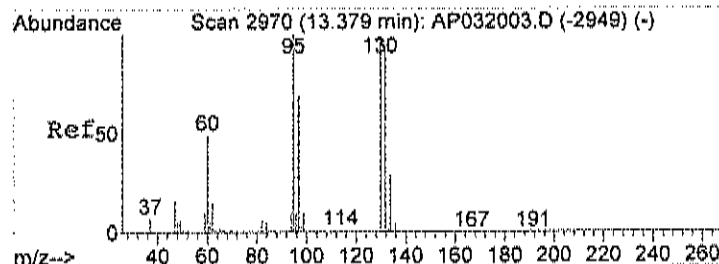
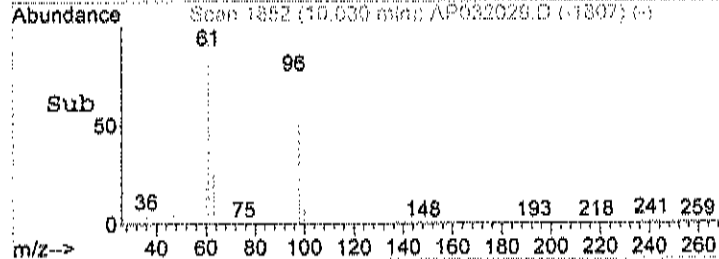
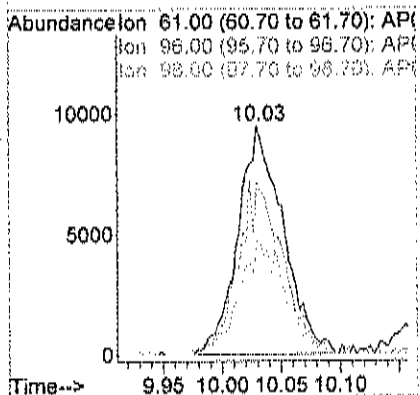
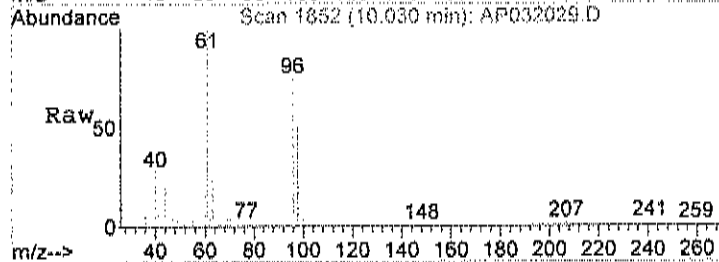
TIC: AP032029.D





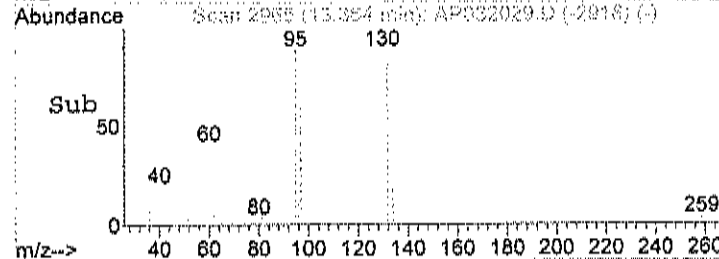
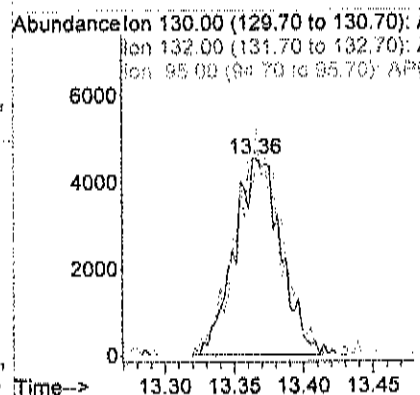
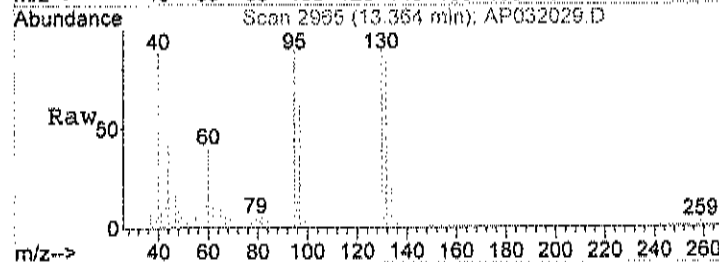
#29
 cis-1,2-dichloroethene
 Concen: 0.26 ppb
 RT: 10.03 min Scan# 1852
 Delta R.T. -0.02 min
 Lab File: AP032029.D
 Acq: 21 Mar 2018 6:24 am

Tgt Ion	Resp	Lower	Upper
61	100		
96	75.2	62.1	102.1
98	50.5	33.3	73.3



#44
 Trichloroethene
 Concen: 0.12 ppb
 RT: 13.36 min Scan# 2965
 Delta R.T. -0.01 min
 Lab File: AP032029.D
 Acq: 21 Mar 2018 6:24 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	101.8	75.8	115.8
95	108.7	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-010A

Client Sample ID: 691-AI-10
Tag Number: 324.1171
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 7:06:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 7:06:00 AM
cis-1,2-Dichloroethene	0.24	0.040		ppbV	1	3/21/2018 7:06:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 7:06:00 AM
Trichloroethene	0.14	0.030		ppbV	1	3/21/2018 7:06:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 7:06:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	3/21/2018 7:06:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
 Lab Order: C1803045
 Project: 691 St Paul St.
 Lab ID: C1803045-010A

Client Sample ID: 691-AI-10
 Tag Number: 324.1171
 Collection Date: 3/16/2018
 Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:06:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 7:06:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:06:00 AM
Trichloroethene	0.75	0.16		ug/m3	1	3/21/2018 7:06:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:06:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Data File : C:\HPCHEM\1\DATA\AP032030.D
 Acq On : 21 Mar 2018 7:06 am
 Sample : C1803045-010A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:54 2018

Vial: 29
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	48088	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	184167	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	142740	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.22	95	96411	0.98	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.04	61	23854	0.24	ppb	95
44) Trichloroethene	13.37	130	12477	0.14	ppb	92

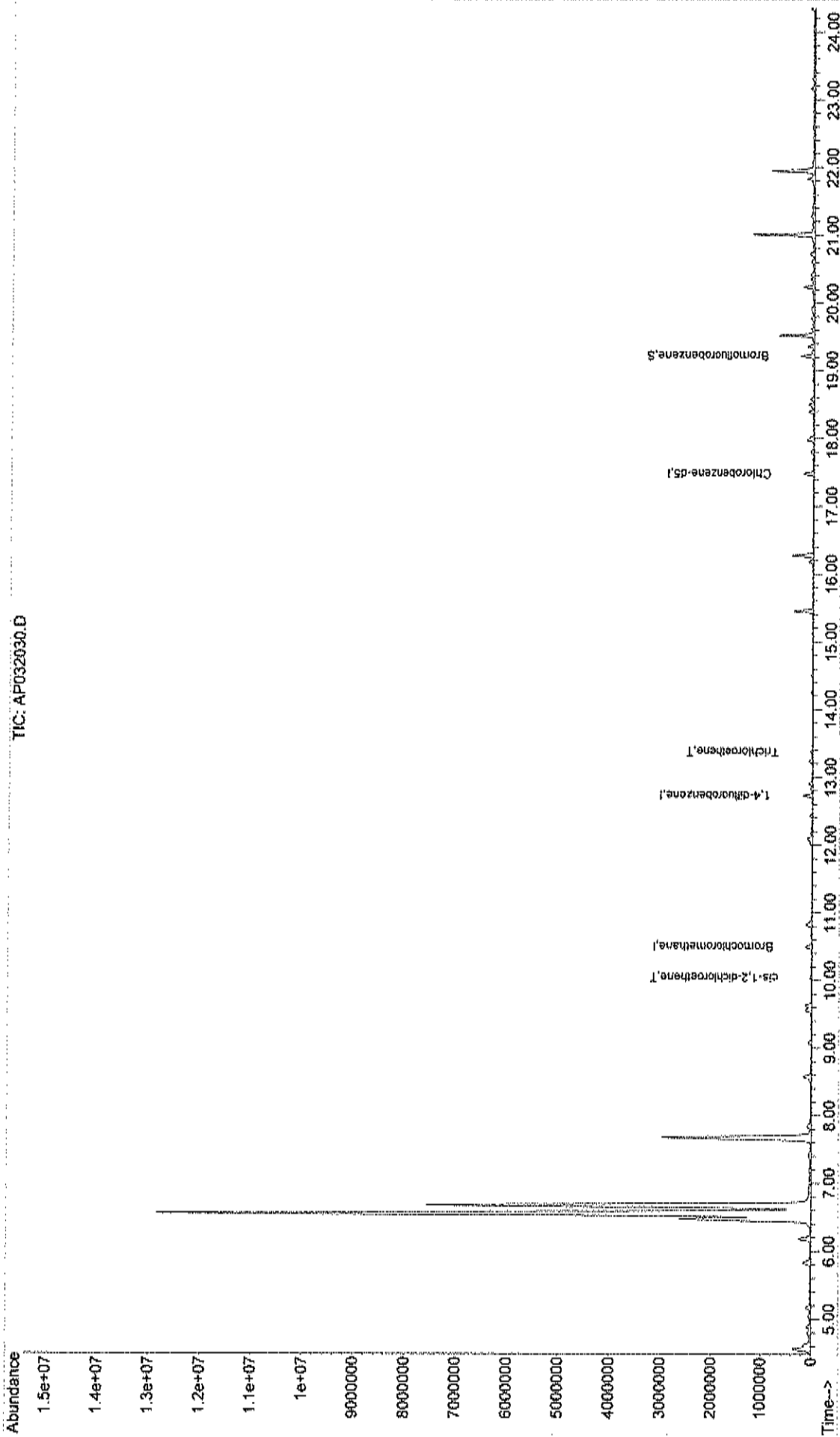
Data File : C:\HPCHEM\1\DATA\AP032030.D
Acq On : 21 Mar 2018 7:06 am
Sample : C1803045-010A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:20 2018

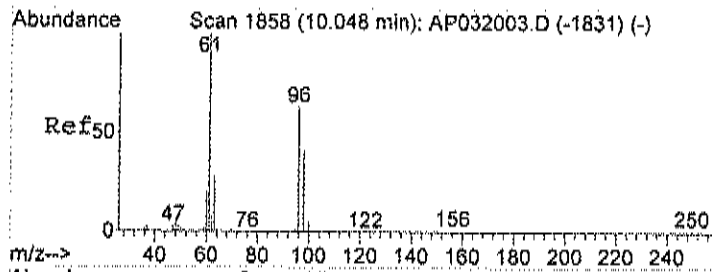
Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : 10-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

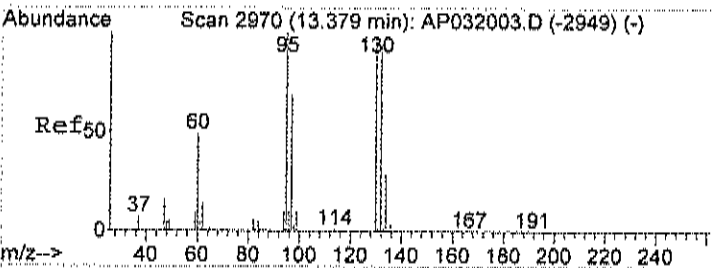
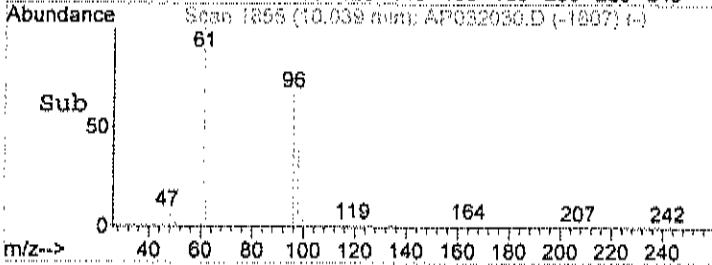
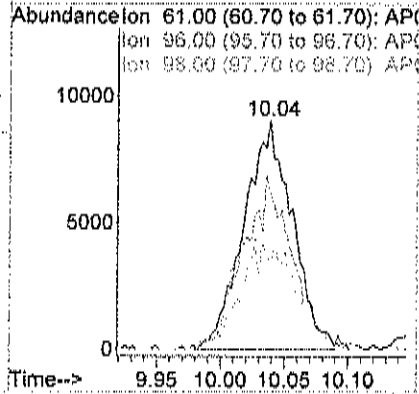
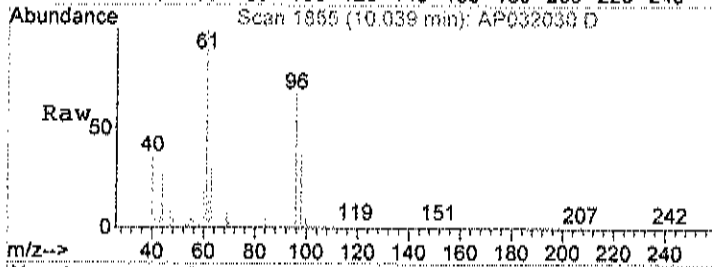
TIC: AP032030.D





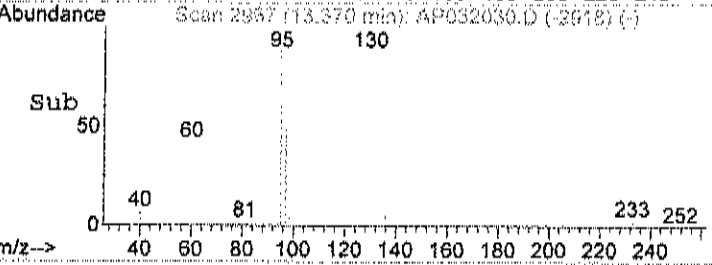
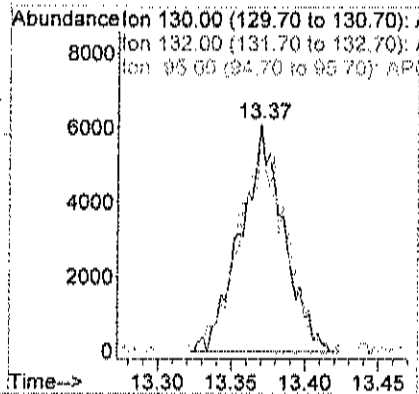
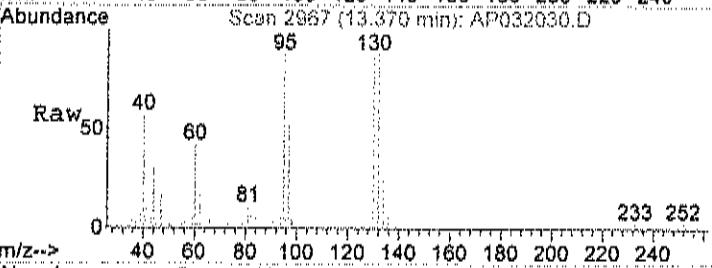
#29
 cis-1,2-dichloroethene
 Concen: 0.24 ppb
 RT: 10.04 min Scan# 1855
 Delta R.T. -0.01 min
 Lab File: AP032030.D
 Acq: 21 Mar 2018 7:06 am

Tgt Ion	Resp	Lower	Upper
61	100		
96	76.5	62.1	102.1
98	52.0	33.3	73.3



#44
 Trichloroethene
 Concen: 0.14 ppb
 RT: 13.37 min Scan# 2967
 Delta R.T. -0.00 min
 Lab File: AP032030.D
 Acq: 21 Mar 2018 7:06 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	98.9	75.8	115.8
95	106.0	74.2	114.2



Date: 28-Mar-18

Centek Laboratories, LLC

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-011A

Client Sample ID: 691-AI-11 MS/MSD
Tag Number: 1196.1418
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/20/2018 10:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	3/20/2018 10:02:00 PM
cis-1,2-Dichloroethene	0.18	0.040		ppbV	1	3/20/2018 10:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/20/2018 10:02:00 PM
Trichloroethene	0.14	0.030		ppbV	1	3/20/2018 10:02:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/20/2018 10:02:00 PM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	3/20/2018 10:02:00 PM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 . Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	691-AI-11 MS/MSD
Lab Order:	C1803045	Tag Number:	1196.1418
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-011A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/20/2018 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	3/20/2018 10:02:00 PM
cis-1,2-Dichloroethene	0.71	0.16		ug/m3	1	3/20/2018 10:02:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/20/2018 10:02:00 PM
Trichloroethene	0.75	0.16		ug/m3	1	3/20/2018 10:02:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/20/2018 10:02:00 PM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032017.D
 Acq On : 20 Mar 2018 10:02 pm
 Sample : C1803045-011A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:41 2018

Vial: 17
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	46044	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	176727	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	139424	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	92332	0.96	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	96.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.04	61	17162	0.18	ppb	94
44) Trichloroethene	13.38	130	11811	0.14	ppb	92

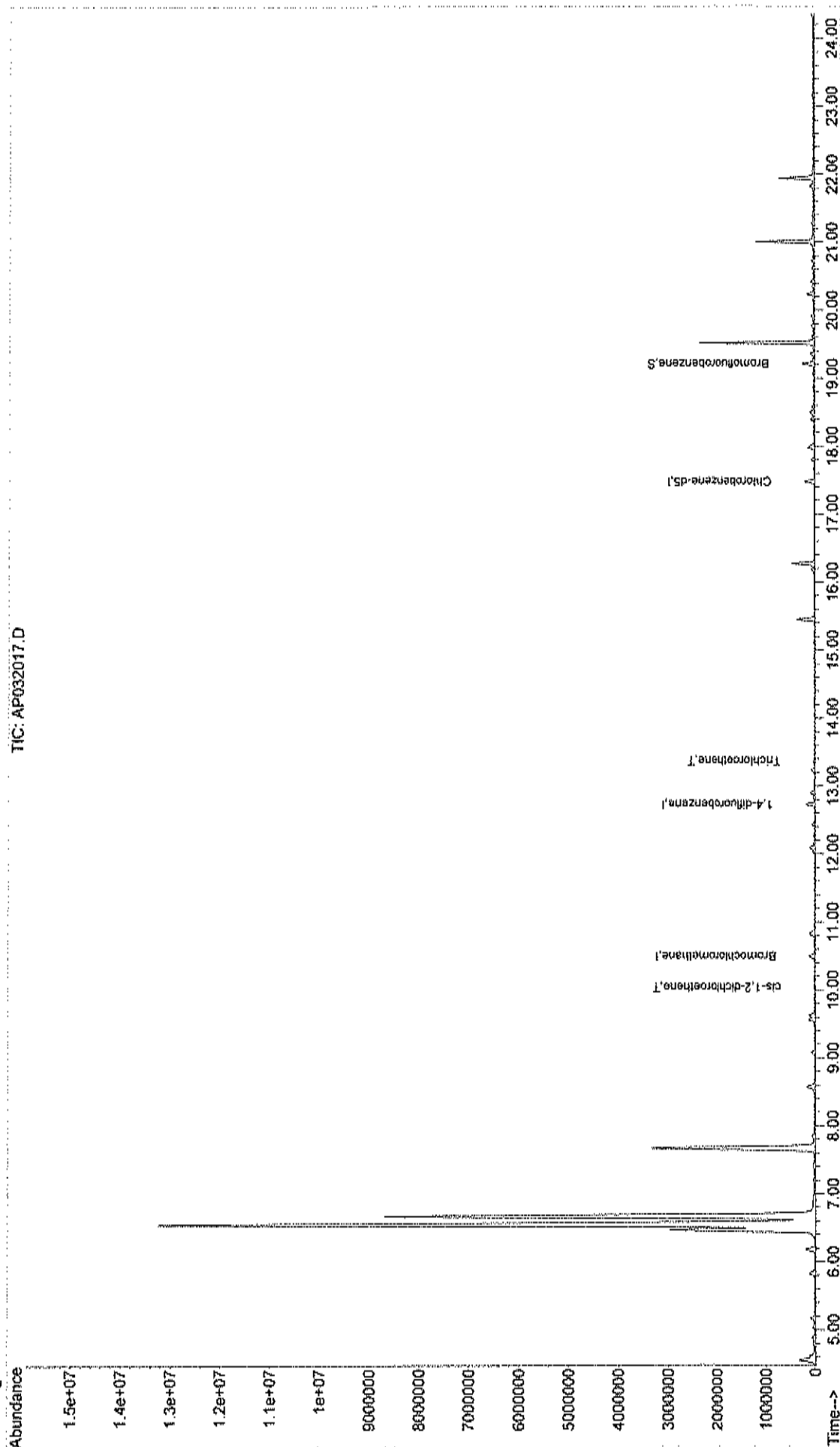
Data File : C:\HPCHEM\1\DATA\AP032017.D
Acq On : 20 Mar 2018 10:02 pm
Sample : C1803045-011A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:09 2018

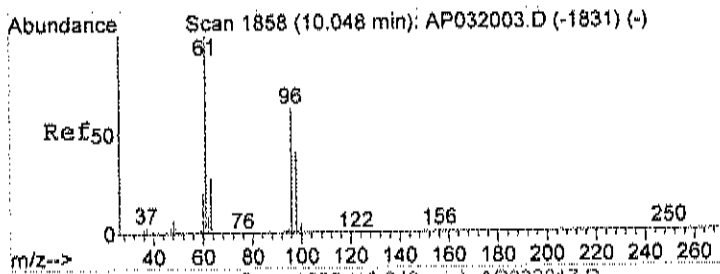
Vial: 17
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

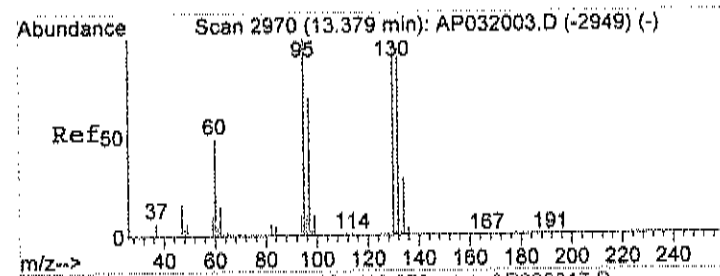
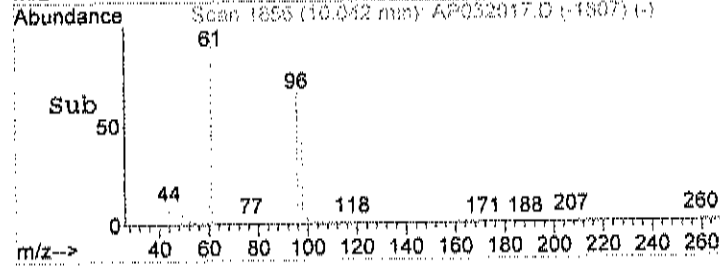
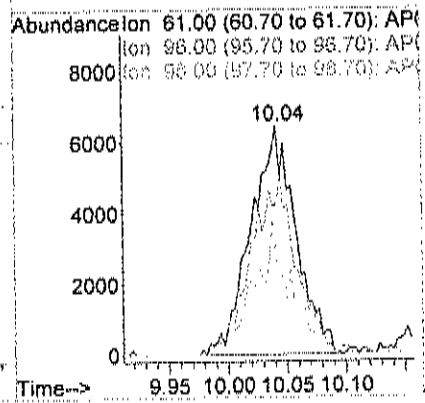
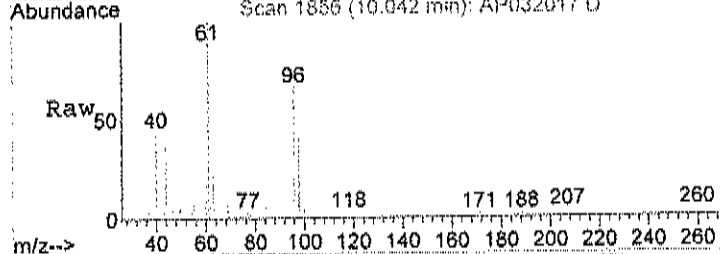
TIC: AP032017.D





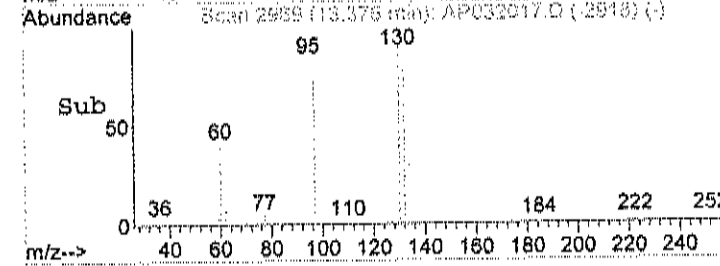
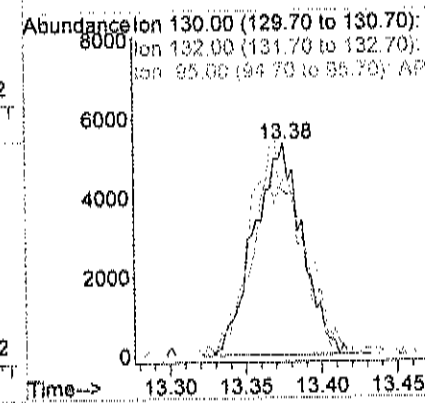
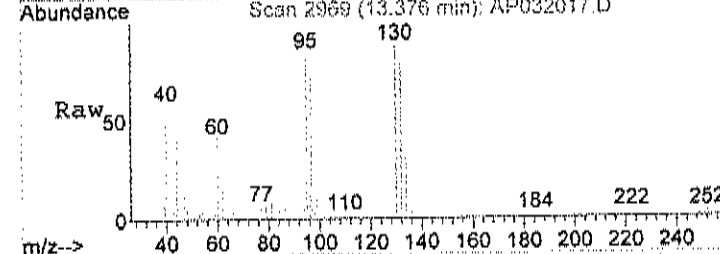
#29
 cis-1,2-dichloroethene
 Concen: 0.18 ppb
 RT: 10.04 min Scan# 1856
 Delta R.T. -0.00 min
 Lab File: AP032017.D
 Acq: 20 Mar 2018 10:02 pm

Tgt Ion	Resp	Lower	Upper
61	17162		
96	78.1	62.1	102.1
98	47.7	33.3	73.3



#44
 Trichloroethene
 Concen: 0.14 ppb
 RT: 13.38 min Scan# 2969
 Delta R.T. 0.00 min
 Lab File: AP032017.D
 Acq: 20 Mar 2018 10:02 pm

Tgt Ion	Resp	Lower	Upper
130	11811		
132	94.3	75.8	115.8
95	107.5	74.2	114.2



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-012A

Client Sample ID: 691-A1-12
Tag Number: 92.266
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						
				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 7:47:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 7:47:00 AM
cis-1,2-Dichloroethene	0.16	0.040		ppbV	1	3/21/2018 7:47:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 7:47:00 AM
Trichloroethene	0.070	0.030		ppbV	1	3/21/2018 7:47:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 7:47:00 AM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	3/21/2018 7:47:00 AM

Qualifiers:	** Quantitation Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-012A

Client Sample ID: 691-AI-12
Tag Number: 92.266
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 7:47:00 AM
cis-1,2-Dichloroethene	0.63	0.16		ug/m3	1	3/21/2018 7:47:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 7:47:00 AM
Trichloroethene	0.38	0.16		ug/m3	1	3/21/2018 7:47:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 7:47:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032031.D
 Acq On : 21 Mar 2018 7:47 am
 Sample : C1803045-012A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 09:38:43 2018

Vial: 30
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.51	128	46283	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.73	114	179108	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	143253	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.22 95 95863 0.97 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.04	61	15075	0.16	ppb	93
44) Trichloroethene	13.38	130	6390	0.07	ppb	# 80

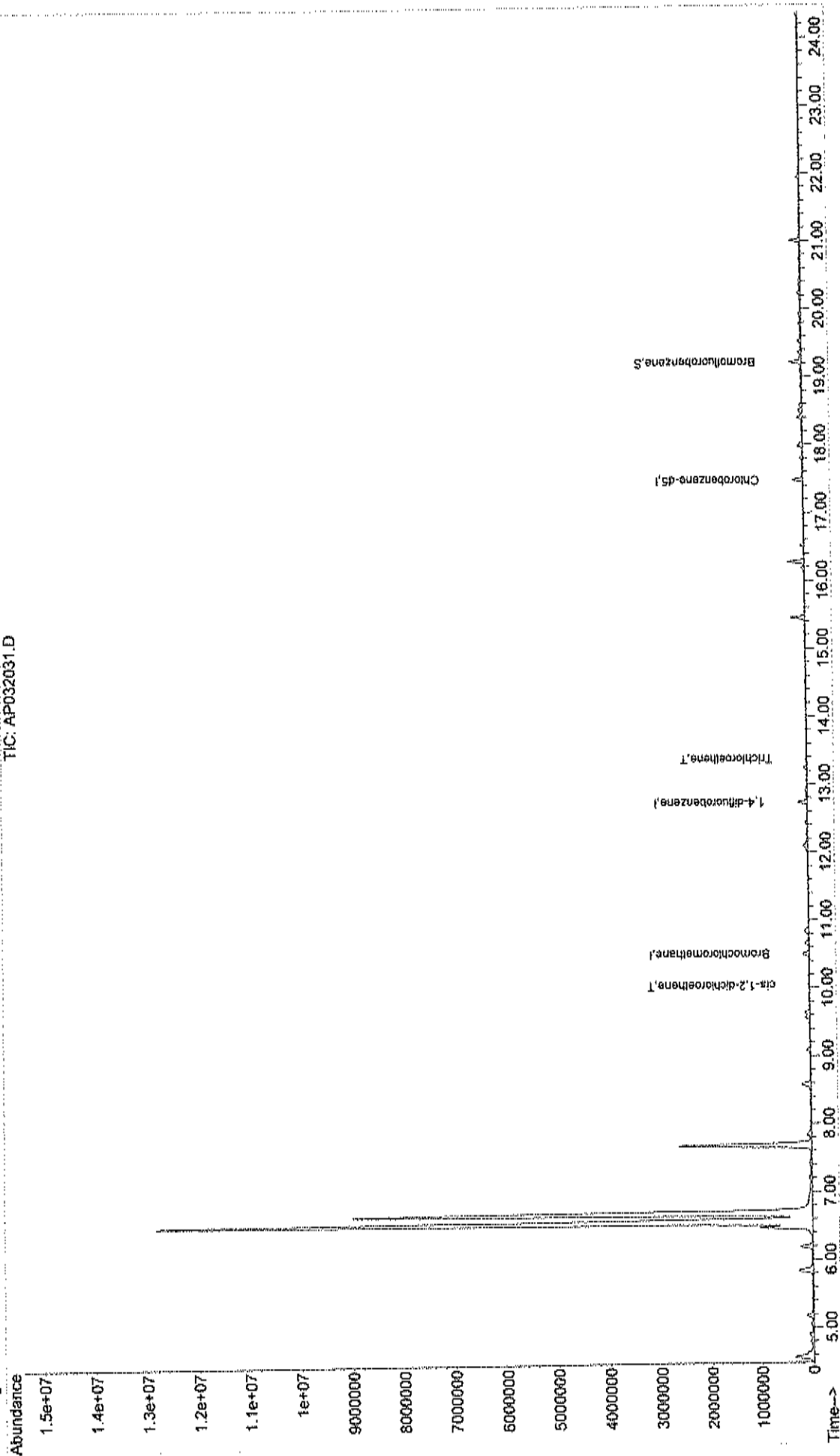
Data File : C:\HPCHEM\1\DATA\AP032031.D
Acq On : 21 Mar 2018 7:47 am
Sample : C1803045-012A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:21 2018

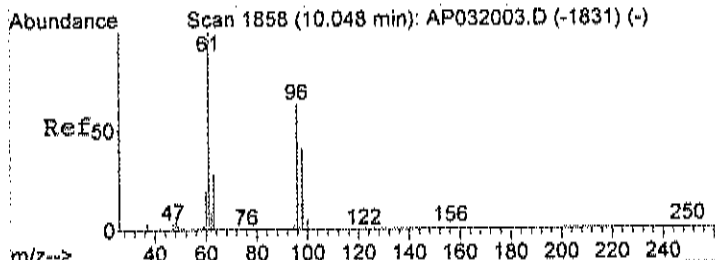
Vial: 30
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

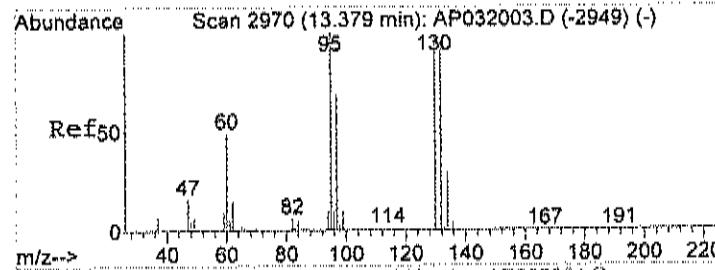
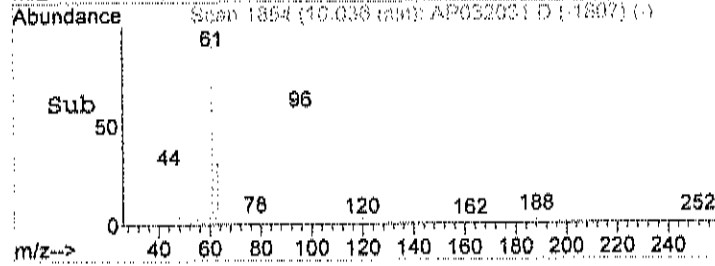
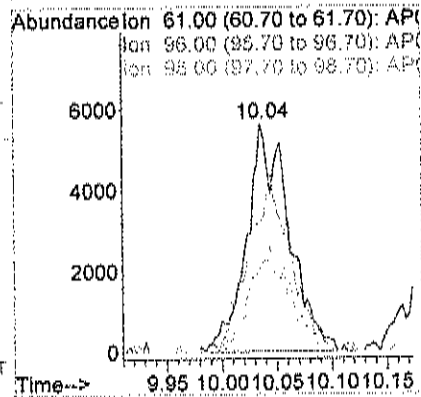
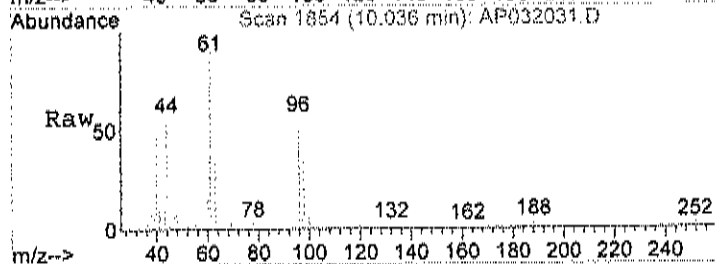
TIC: AP032031.D





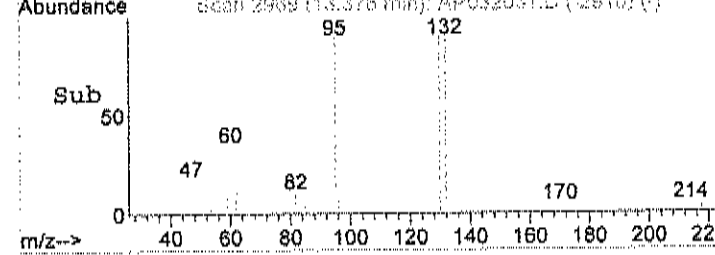
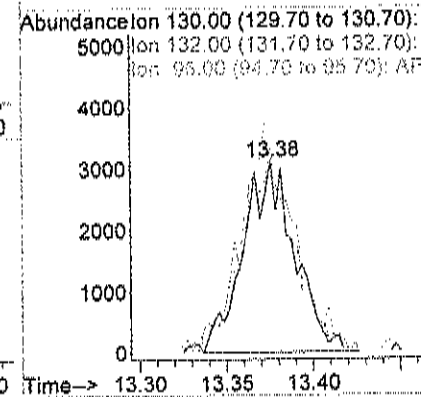
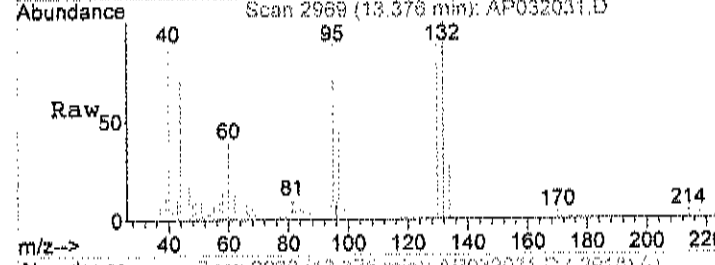
#29
 cis-1,2-dichloroethene
 Concen: 0.16 ppb
 RT: 10.04 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: AP032031.D
 Acq: 21 Mar 2018 7:47 am

Tgt Ion	Resp	Lower	Upper
61	15075		
96	77.5	62.1	102.1
98	45.7	33.3	73.3



#44
 Trichloroethene
 Concen: 0.07 ppb
 RT: 13.38 min Scan# 2969
 Delta R.T. 0.00 min
 Lab File: AP032031.D
 Acq: 21 Mar 2018 7:47 am

Tgt Ion	Resp	Lower	Upper
130	6390		
132	111.8	75.8	115.8
95	116.5	74.2	114.2#



Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT:	LaBella Associates, P.C.	Client Sample ID:	Duplicate
Lab Order:	C1803045	Tag Number:	359.1171
Project:	691 St Paul St.	Collection Date:	3/16/2018
Lab ID:	C1803045-013A	Matrix:	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS						
Lab Vacuum In	-6			"Hg		3/19/2018
Lab Vacuum Out	-30			"Hg		3/19/2018
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE						
				TO-15		Analyst: RJP
1,1-Dichloroethene	< 0.040	0.040		ppbV	1	3/21/2018 8:29:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/21/2018 8:29:00 AM
cis-1,2-Dichloroethene	0.24	0.040		ppbV	1	3/21/2018 8:29:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/21/2018 8:29:00 AM
Trichloroethene	0.13	0.030		ppbV	1	3/21/2018 8:29:00 AM
Vinyl chloride	< 0.040	0.040		ppbV	1	3/21/2018 8:29:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	3/21/2018 8:29:00 AM

Qualifiers:	**	Quantitation Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Estimated Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Limit of Detection
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: 28-Mar-18

CLIENT: LaBella Associates, P.C.
Lab Order: C1803045
Project: 691 St Paul St.
Lab ID: C1803045-013A

Client Sample ID: Duplicate
Tag Number: 359.1171
Collection Date: 3/16/2018
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.2UG/M3 CT-TCE-VC-DCE-1,1DCE			TO-15			Analyst: RJP
1,1-Dichloroethene	< 0.16	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/21/2018 8:29:00 AM
cis-1,2-Dichloroethene	0.95	0.16		ug/m3	1	3/21/2018 8:29:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/21/2018 8:29:00 AM
Trichloroethene	0.70	0.16		ug/m3	1	3/21/2018 8:29:00 AM
Vinyl chloride	< 0.10	0.10		ug/m3	1	3/21/2018 8:29:00 AM

Qualifiers: ** Quantitation Limit
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 JN Non-routine analyte. Quantitation estimated.
 S Spike Recovery outside accepted recovery limits
 , Results reported are not blank corrected
 E Estimated Value above quantitation range
 J Analyte detected below quantitation limit
 ND Not Detected at the Limit of Detection

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032032.D
 Acq On : 21 Mar 2018 8:29 am
 Sample : C1803045-013A
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 09:38:27 2018

Vial: 31
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	47464	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	181186	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	141584	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 95444 0.98 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
29) cis-1,2-dichloroethene	10.04	61	23830	0.24	ppb	91
44) Trichloroethene	13.38	130	11658	0.13	ppb	89

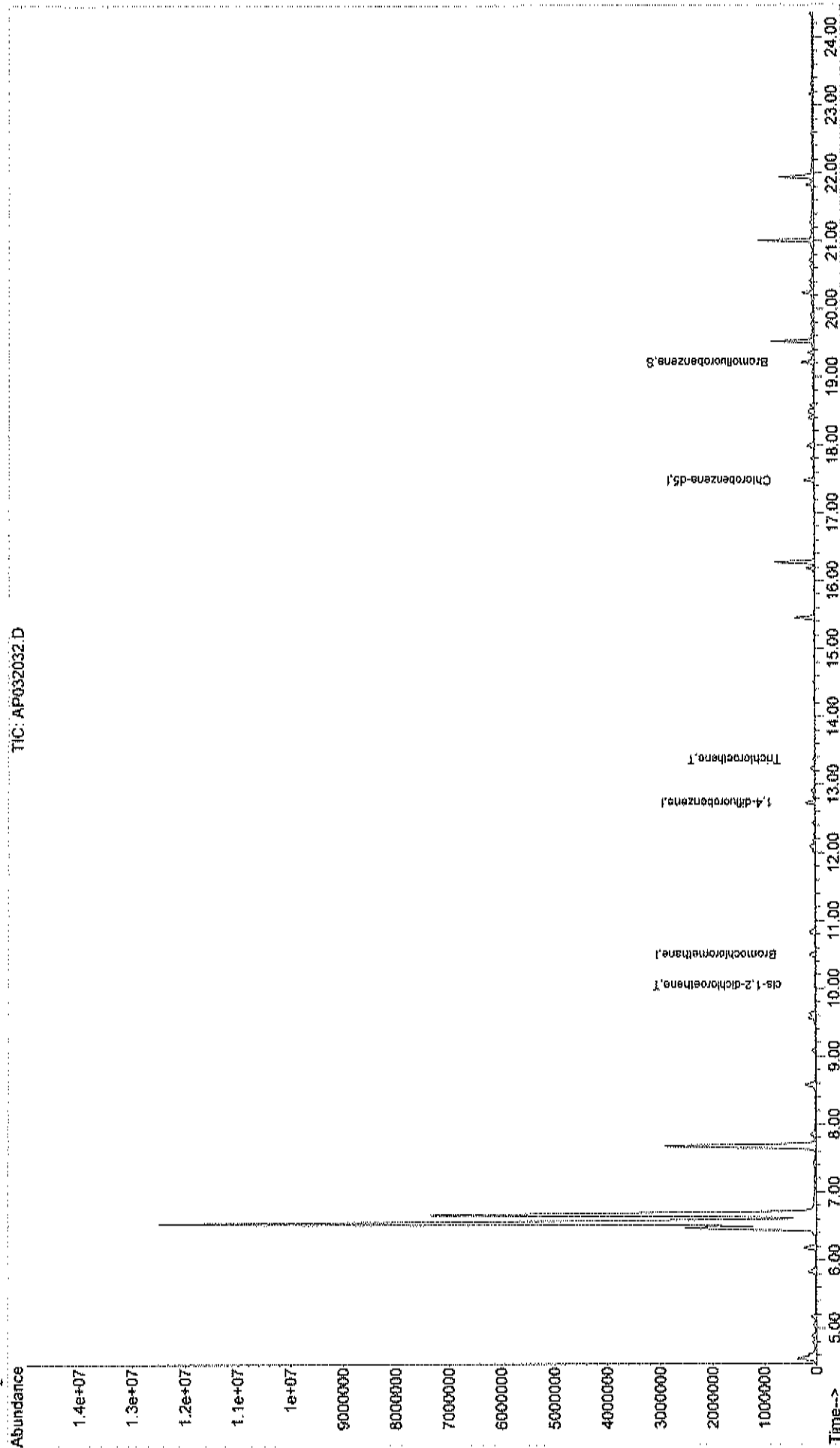
Data File : C:\HPCHEM\1\DATA\AP032032.D
Acq On : 21 Mar 2018 8:29 am
Sample : CL803045-013A
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:22 2018

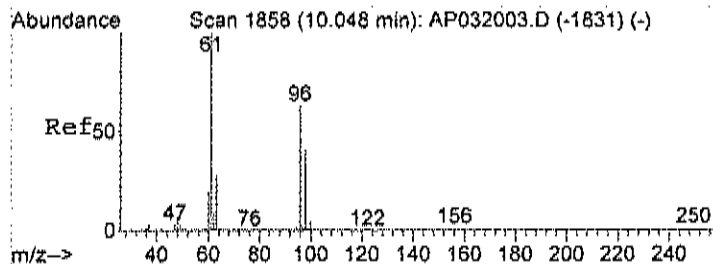
Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration

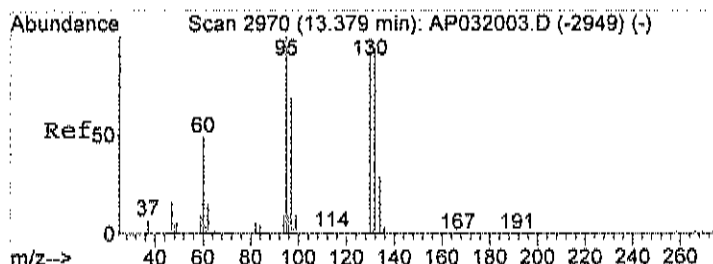
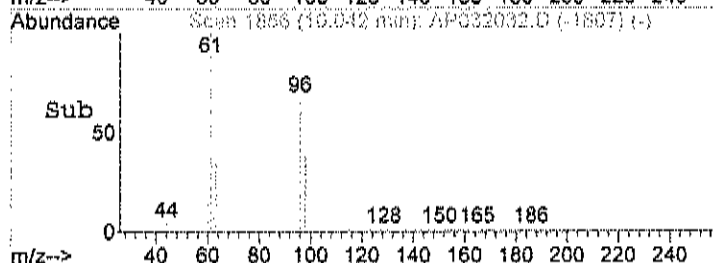
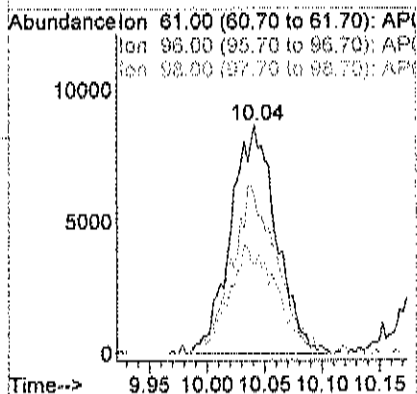
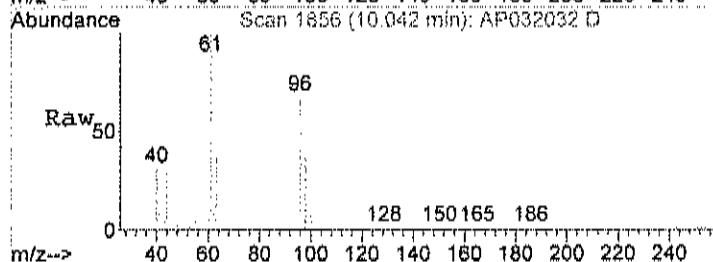
TIC: AP032032.D





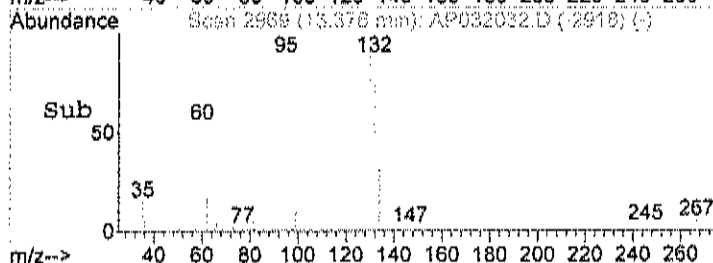
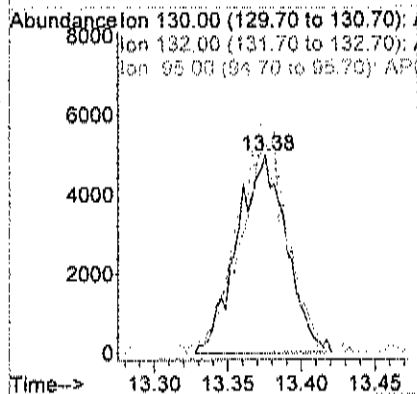
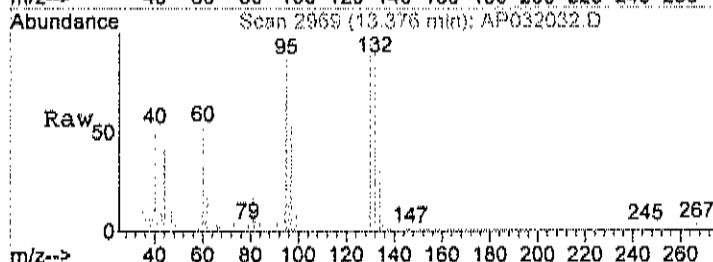
#29
 cis-1,2-dichloroethene
 Concen: 0.24 ppb
 RT: 10.04 min Scan# 1856
 Delta R.T. -0.00 min
 Lab File: AP032032.D
 Acq: 21 Mar 2018 8:29 am

Tgt Ion	Resp	Lower	Upper
61	100		
96	72.8	62.1	102.1
98	48.8	33.3	73.3



#44
 Trichloroethene
 Concen: 0.13 ppb
 RT: 13.38 min Scan# 2969
 Delta R.T. 0.00 min
 Lab File: AP032032.D
 Acq: 21 Mar 2018 8:29 am

Tgt Ion	Resp	Lower	Upper
130	100		
132	103.2	75.8	115.8
95	108.3	74.2	114.2



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Initial Calibration

Calibration Files

2 =AP031804.D 1.5 =AP031805.D 1.25 =AP031806.D
 1 =AP031807.D 0.75 =AP031808.D 0.5 =AP031809.D

Compound	2	1.5	1.25	1	0.75	0.5	Avg	%RSD
1) I Bromochloromethane	-----ISTD-----							
2) T Propylene	1.245	1.321	1.265	1.254	1.209	1.287	1.300	5.80
3) T Freon 12	5.553	5.626	5.568	5.665	5.687	5.788	5.814	6.58
4) T Chloromethane	1.327	1.254	1.324	1.323	1.355	1.361	1.445	16.09
5) T Freon 114	4.598	4.530	4.525	4.679	4.747	4.737	4.917	10.88
6) T Vinyl Chloride	1.175	1.169	1.178	1.197	1.196	1.227	1.350	19.67
7) T Butane	1.413	1.432	1.431	1.454	1.467	1.506	1.563	13.51
8) T 1,3-butadiene	0.944	0.936	0.915	0.957	0.911	1.003	1.030	15.88
9) T Bromomethane	1.517	1.433	1.463	1.475	1.448	1.506	1.559	10.40
10) T Chloroethane	0.496	0.472	0.478	0.489	0.491	0.523	0.522	11.21
11) T Ethanol	0.292	0.290	0.316	0.319	0.291	0.342	0.341	18.46
12) T Acrolein	0.319	0.298	0.294	0.297	0.321	0.329	0.329	12.33
13) T Vinyl Bromide	1.395	1.384	1.380	1.367	1.400	1.406	1.447	7.86
14) T Freon 11	5.702	5.642	5.570	5.742	5.731	5.820	5.991	9.35
15) T Acetone	0.379	0.369	0.378	0.368	0.387	0.370	0.379	2.98
16) T Pentane	0.792		0.777	0.808	0.804	0.847	0.866	24.15
17) T Isopropyl alcoh	1.151	2.121	1.136	1.180	1.232	1.244	1.399	25.46
18) T 1,1-dichloroeth	1.539	1.480	1.564	1.584	1.602	1.554	1.715	16.73
19) T Freon 113	3.706	3.623	3.715	3.734	3.767	3.762	3.720	5.84
20) t t-Butyl alcohol	2.479	2.396	2.522	2.435	2.532	2.490	2.517	4.26
21) T Methylene chlor	1.455	1.429	1.419	1.427	1.488	1.469	1.519	9.43
22) T Allyl chloride	1.801	1.756	1.774	1.860	1.735	1.742	1.828	6.85
23) T Carbon disulfid	3.369	3.318	3.351	3.327	3.448	3.474	3.533	8.40
24) T trans-1,2-dichl	1.979	1.965	1.940	1.966	1.984	1.847	1.967	3.16
25) T methyl tert-but	3.357	3.191	3.207	3.180	3.236	3.093	3.255	4.43
26) T 1,1-dichloroeth	3.075	3.016	3.020	3.051	3.064	3.053	3.197	7.83
27) T Vinyl acetate	3.158	2.983	2.948	2.959	2.773	2.677	2.877	5.60
28) T Methyl Ethyl Ke	0.678	0.634	0.631	0.630	0.625	0.638	0.646	4.83
29) T cis-1,2-dichlor	1.976	1.891	1.907	1.922	1.883	1.884	2.054	13.89
30) T Hexane	2.041	2.003	1.979	1.997	1.908	1.893	1.999	4.02
31) T Ethyl acetate	3.121	3.014	2.985	2.999	2.905	2.949	3.018	2.73
32) T Chloroform	3.651	3.588	3.643	3.673	3.669	3.638	3.756	5.66
33) T Tetrahydrofuran	1.503	1.426	1.393	1.397	1.382	1.293	1.414	4.80
34) T 1,2-dichloroeth	2.339	2.280	2.267	2.311	2.283	2.342	2.352	4.40
35) I 1,4-difluorobenzene	-----ISTD-----							
36) T 1,1,1-trichloro	0.849	0.852	0.831	0.845	0.840	0.872	0.873	5.92
37) T Cyclohexane	0.513	0.484	0.474	0.461	0.448	0.432	0.461	6.18
38) T Carbon tetrachl	0.929	0.926	0.913	0.920	0.903	0.937	1.033	16.56
39) T Benzene	1.057	1.047	1.047	1.029	1.014	1.053	1.059	4.30
40) T Methyl methacry	0.456	0.425	0.398	0.378	0.365	0.354	0.380	11.66
41) T 1,4-dioxane	0.220	0.219	0.207	0.203	0.202	0.191	0.200	8.35
42) T 2,2,4-trimethyl	1.669	1.601	1.564	1.525	1.472	1.467	1.523	5.45
43) T Heptane	0.601	0.580	0.544	0.528	0.508	0.491	0.524	9.29
44) T Trichloroethene	0.461	0.468	0.451	0.455	0.451	0.450	0.489	11.06
45) T 1,2-dichloropro	0.438	0.444	0.426	0.422	0.431	0.432	0.442	4.36
46) T Bromodichlorome	0.924	0.922	0.909	0.915	0.897	0.911	0.930	3.46
47) T cis-1,3-dichlor	0.583	0.561	0.534	0.517	0.496	0.480	0.511	8.93
48) T trans-1,3-dichl	0.417	0.394	0.381	0.365	0.342	0.329	0.363	8.71
49) T 1,1,2-trichloro	0.473	0.474	0.460	0.452	0.466	0.468	0.471	2.79
50) I Chlorobenzene-d5	-----ISTD-----							
51) T Toluene	0.848	0.799	0.773	0.751	0.701	0.674	0.743	8.52

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Initial Calibration

Calibration Files

2 =AP031804.D 1.5 =AP031805.D 1.25 =AP031806.D
 1 =AP031807.D 0.75 =AP031808.D 0.5 =AP031809.D

Compound	2	1.5	1.25	1	0.75	0.5	Avg	%RSD
52) T Methyl Isobutyl	0.919	0.842	0.852	0.832	0.806	0.808	0.827	5.64
53) T Dibromochlorome	1.105	1.075	1.104	1.095	1.097	1.110	1.125	4.80
54) T Methyl Butyl Ke	0.851	0.742	0.768	0.724	0.681	0.659	0.715	10.02
55) T 1,2-dibromoetha	0.866	0.841	0.841	0.843	0.826	0.825	0.848	2.73
56) T Tetrachloroethy	0.598	0.576	0.578	0.576	0.577	0.599	0.607	7.74
57) T Chlorobenzene	1.154	1.118	1.113	1.122	1.096	1.078	1.124	4.62
58) T Ethylbenzene	1.848	1.715	1.651	1.538	1.444	1.337	1.526	12.89
59) T m&p-xylene	1.612	1.521	1.495	1.449	1.333	1.168	1.329	17.33
60) T Nonane	1.181	1.089	1.079	1.031	0.940	0.864	0.958	17.32
61) T Styrene	1.236	1.183	1.156	1.147	1.077	1.023	1.072	13.04
62) T Bromoform	1.080	1.060	1.037	1.051	1.042	1.050	1.060	1.73
63) T o-xylene	1.800	1.731	1.741	1.726	1.694	1.583	1.621	11.62
64) T Cumene	2.097	1.944	1.869	1.766	1.645	1.524	1.711	14.76
65) S Bromofluorobenz	0.794	0.785	0.778	0.772	0.766	0.723	0.690	14.35
66) T 1,1,2,2-tetrach	1.384	1.357	1.381	1.419	1.415	1.481	1.459	7.60
67) T Propylbenzene	0.571	0.524	0.506	0.478	0.443	0.418	0.469	13.08
68) T 2-Chlorotoluena	0.616	0.592	0.602	0.580	0.553	0.538	0.557	9.25
69) T 4-ethyltoluene	2.295	2.128	2.110	2.023	1.906	1.781	1.911	14.89
70) T 1,3,5-trimethyl	1.958	1.865	1.850	1.828	1.731	1.616	1.693	14.32
71) T 1,2,4-trimethyl	1.657	1.525	1.438	1.337	1.238	1.131	1.311	16.47
72) T 1,3-dichloroben	1.239	1.167	1.170	1.148	1.096	1.056	1.113	7.26
73) T benzyl chloride	1.056	0.966	0.949	0.906	0.861	0.814	0.897	9.96
74) T 1,4-dichloroben	1.239	1.180	1.171	1.117	1.082	0.999	1.073	12.10
75) T 1,2,3-trimethyl	1.784	1.667	1.634	1.576	1.471	1.274	1.449	18.56
76) T 1,2-dichloroben	1.202	1.150	1.145	1.116	1.067	1.069	1.090	7.22
77) T 1,2,4-trichloro	0.431	0.398	0.377	0.349	0.323	0.299	0.340	17.64
78) T Naphthalene	0.842	0.796	0.759	0.694	0.641	0.569	0.646	18.86
79) T Hexachloro-1,3-	0.887	0.878	0.857	0.863	0.860	0.899	0.885	3.14

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031804.D
 Acq On : 18 Mar 2018 5:47 pm
 Sample : A1UG_2.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:59 2018

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	50967	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	210664	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	166841	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 132542 1.03 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.57	41	126873	1.98	ppb	95
3) Freon 12	4.63	85	566028	1.96	ppb	100
4) Chloromethane	4.84	50	135293	2.01	ppb	98
5) Freon 114	4.85	85	468698	1.97	ppb	99
6) Vinyl Chloride	5.06	62	119808	1.96	ppb	100
7) Butane	5.18	43	144021	1.94	ppb	98
8) 1,3-butadiene	5.18	39	96192	1.97	ppb	94
9) Bromomethane	5.55	94	154625	2.06	ppb	100
10) Chloroethane	5.74	64	50602	2.03	ppb	97
11) Ethanol	5.84	45	29812m //	1.83	ppb	
12) Acrolein	6.46	56	32518	2.15	ppb	95
13) Vinyl Bromide	6.10	106	142191	2.04	ppb	97
14) Freon 11	6.40	101	581181	1.99	ppb	100
15) Acetone	6.57	58	38617	2.06	ppb	88
16) Pentane	6.69	42	80699	1.96	ppb	99
17) Isopropyl alcohol	6.68	45	117298	1.95	ppb	98
18) 1,1-dichloroethene	7.20	96	156858	1.94	ppb	# 83
19) Freon 113	7.41	101	377782	1.99	ppb	# 87
20) t-Butyl alcohol	7.43	59	252646	2.04	ppb	92
21) Methylene chloride	7.68	84	148361	2.04	ppb	# 79
22) Allyl chloride	7.66	41	183542	1.94	ppb	86
23) Carbon disulfide	7.85	76	343430	2.03	ppb	99
24) trans-1,2-dichloroethene	8.65	61	201759	2.01	ppb	88
25) methyl tert-butyl ether	8.66	73	342194	2.11	ppb	88
26) 1,1-dichloroethane	9.08	63	313456	2.02	ppb	99
27) Vinyl acetate	9.06	43	321947	2.14	ppb	85
28) Methyl Ethyl Ketone	9.57	72	69082	2.15	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	201433	2.06	ppb	89
30) Hexane	9.63	57	208022	2.04	ppb	98
31) Ethyl acetate	10.18	43	318091	2.08	ppb	97
32) Chloroform	10.66	83	372147	1.99	ppb	100
33) Tetrahydrofuran	10.82	42	153183	2.15	ppb	83
34) 1,2-dichloroethane	11.75	62	238453	2.02	ppb	97
36) 1,1,1-trichloroethane	11.49	97	357653	2.01	ppb	100
37) Cyclohexane	12.17	56	216154	2.23	ppb	86
38) Carbon tetrachloride	12.11	117	391286	2.02	ppb	99
39) Benzene	12.08	78	445248	2.05	ppb	98
40) Methyl methacrylate	13.58	41	191933	2.41	ppb	# 83
41) 1,4-dioxane	13.61	88	92880	2.17	ppb	86
42) 2,2,4-trimethylpentane	12.91	57	703384	2.19	ppb	99
43) Heptane	13.24	43	253076	2.27	ppb	86
44) Trichloroethene	13.37	130	194412	2.03	ppb	93
45) 1,2-dichloropropane	13.47	63	184699	2.08	ppb	99

(#) = qualifier out of range (m) = manual integration
 AP031804.D A318_1UG.M Wed Mar 28 06:59:17 2018

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031804.D
 Acq On : 18 Mar 2018 5:47 pm
 Sample : A1UG_2.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:59 2018

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	389340	2.02	ppb	99
47) cis-1,3-dichloropropene	14.61	75	245534	2.25	ppb	96
48) trans-1,3-dichloropropene	15.36	75	175654	2.29	ppb	98
49) 1,1,2-trichloroethane	15.69	97	199287	2.09	ppb	100
51) Toluene	15.45	92	282862	2.26	ppb	100
52) Methyl Isobutyl Ketone	14.51	43	306639	2.21	ppb	93
53) Dibromochloromethane	16.43	129	368735	2.02	ppb	100
54) Methyl Butyl Ketone	15.86	43	283807	2.35	ppb	94
55) 1,2-dibromoethane	16.69	107	289106	2.05	ppb	99
56) Tetrachloroethylene	16.52	164	199489	2.08	ppb	99
57) Chlorobenzene	17.53	112	385007	2.06	ppb	94
58) Ethylbenzene	17.80	91	616655	2.40	ppb	98
59) m&p-xylene	18.01	91	1075965	4.45	ppb	99
60) Nonane	18.39	43	394211	2.29	ppb	85
61) Styrene	18.47	104	412570	2.16	ppb	99
62) Bromoform	18.60	173	360364	2.06	ppb	99
63) o-xylene	18.50	91	600779	2.09	ppb	100
64) Cumene	19.10	105	699652	2.37	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	461698	1.95	ppb	99
67) Propylbenzene	19.68	120	190391	2.39	ppb	85
68) 2-Chlorotoluene	19.73	126	205452	2.12	ppb	94
69) 4-ethyltoluene	19.86	105	765965	2.27	ppb	100
70) 1,3,5-trimethylbenzene	19.93	105	653363	2.14	ppb	100
71) 1,2,4-trimethylbenzene	20.42	105	552845	2.48	ppb	99
72) 1,3-dichlorobenzene	20.75	146	413388	2.16	ppb	99
73) benzyl chloride	20.82	91	352504	2.33	ppb	97
74) 1,4-dichlorobenzene	20.90	146	413292	2.22	ppb	99
75) 1,2,3-trimethylbenzene	20.94	105	595165	2.26	ppb	100
76) 1,2-dichlorobenzene	21.26	146	401096	2.15	ppb	98
77) 1,2,4-trichlorobenzene	23.38	180	143843	2.47	ppb	97
78) Naphthalene	23.59	128	280997m /1	2.43	ppb	
79) Hexachloro-1,3-butadiene	23.71	225	295829	2.06	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031804.D A318_1UG.M Wed Mar 28 06:59:18 2018 MSD1

Quantitation Report (QT Reviewed)

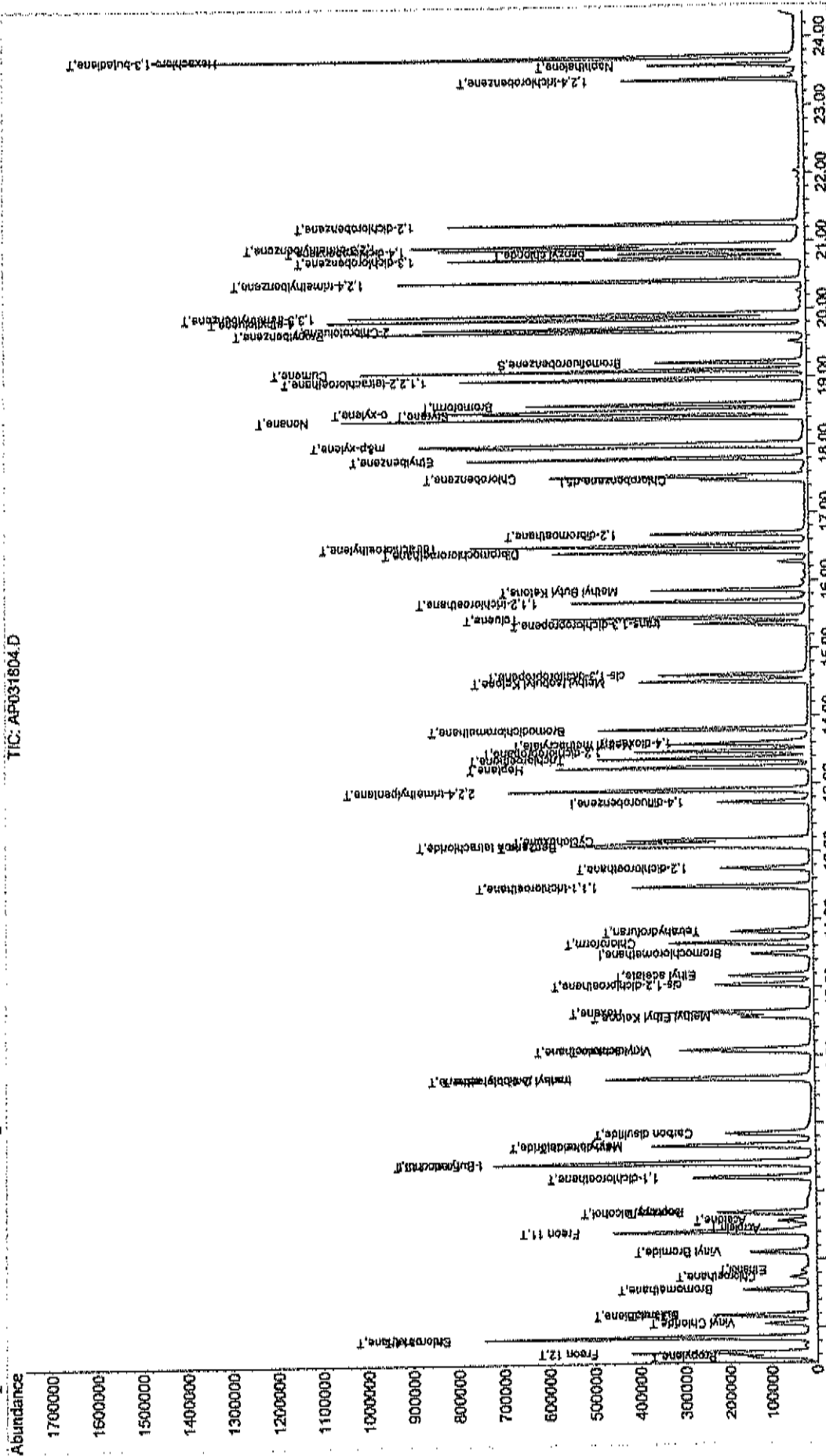
Data File : C:\HPCHEM\1\DATA\AP031804.D
Acq On : 18 Mar 2018 5:47 pm
Sample : ALUG 2.0
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:39 2018

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTS Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D

TIC: AP031804.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031805.D
 Acq On : 18 Mar 2018 6:28 pm
 Sample : A1UG_1.50
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:41 2018

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	51190	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	208236	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	167267	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.22	95	131230	1.02	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.56	41	101405	1.58	ppb	90
3) Freon 12	4.62	85	432007	1.49	ppb	99
4) Chloromethane	4.84	50	96298	1.42	ppb	98
5) Freon 114	4.85	85	347832	1.45	ppb	98
6) Vinyl Chloride	5.05	62	89793	1.46	ppb	98
7) Butane	5.17	43	109918	1.48	ppb	98
8) 1,3-butadiene	5.18	39	71884	1.47	ppb	97
9) Bromomethane	5.55	94	110011	1.46	ppb	97
10) Chloroethane	5.73	64	36269	1.45	ppb	96
11) Ethanol	5.85	45	22289	1.36	ppb	86
12) Acrolein	6.45	56	22898	1.51	ppb	96
13) Vinyl Bromide	6.10	106	106301	1.52	ppb	98
14) Freon 11	6.40	101	433197	1.47	ppb	100
15) Acetone	6.56	58	26300	1.50	ppb	# 85
16) Pentane	6.69	42	122620	2.96	ppb	96
17) Isopropyl alcohol	6.68	45	162878	2.70	ppb	93
18) 1,1-dichloroethene	7.20	96	113626	1.40	ppb	# 81
19) Freon 113	7.41	101	278168	1.46	ppb	87
20) t-Butyl alcohol	7.44	59	184003	1.48	ppb	# 90
21) Methylene chloride	7.68	84	109706	1.50	ppb	# 80
22) Allyl chloride	7.67	41	134800	1.42	ppb	87
23) Carbon disulfide	7.85	76	254743	1.50	ppb	99
24) trans-1,2-dichloroethene	8.65	61	150884	1.50	ppb	89
25) methyl tert-butyl ether	8.66	73	245031	1.51	ppb	84
26) 1,1-dichloroethane	9.08	63	231620	1.48	ppb	100
27) Vinyl acetate	9.06	43	229046	1.51	ppb	95
28) Methyl Ethyl Ketone	9.57	72	48709	1.51	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	145171	1.48	ppb	90
30) Hexane	9.63	57	153815	1.50	ppb	97
31) Ethyl acetate	10.17	43	231418	1.51	ppb	99
32) Chloroform	10.66	83	275518	1.47	ppb	100
33) Tetrahydrofuran	10.82	42	109467	1.53	ppb	84
34) 1,2-dichloroethane	11.76	62	175068	1.48	ppb	99
36) 1,1,1-trichloroethane	11.49	97	266184	1.51	ppb	99
37) Cyclohexane	12.17	56	151260	1.58	ppb	87
38) Carbon tetrachloride	12.12	117	289277	1.51	ppb	98
39) Benzene	12.08	78	326985	1.53	ppb	98
40) Methyl methacrylate	13.58	41	132891	1.69	ppb	# 85
41) 1,4-dioxane	13.61	88	68256	1.62	ppb	88
42) 2,2,4-trimethylpentane	12.91	57	500200	1.57	ppb	97
43) Heptane	13.24	43	181014	1.65	ppb	86
44) Trichloroethene	13.38	130	146288	1.54	ppb	94
45) 1,2-dichloropropane	13.47	63	138823	1.58	ppb	100

(#) = qualifier out of range (m) = manual integration
 AP031805.D A318_1UG.M Wed Mar 28 06:59:21 2018

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031805.D
 Acq On : 18 Mar 2018 6:28 pm
 Sample : A1UG_1.50
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:41 2018

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

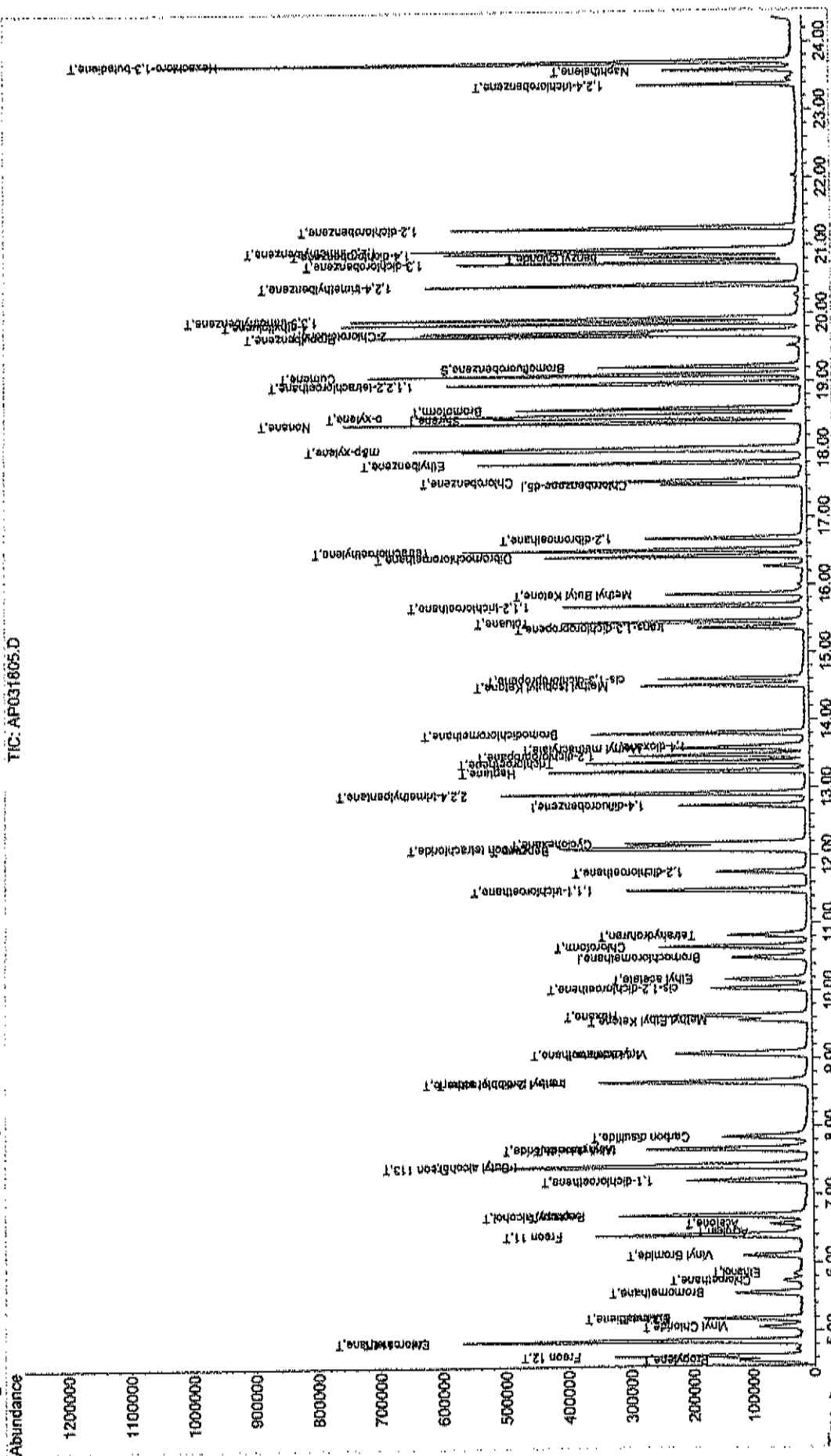
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	288092	1.51	ppb	99
47) cis-1,3-dichloropropene	14.61	75	175264	1.63	ppb	97
48) trans-1,3-dichloropropene	15.36	75	122974	1.62	ppb	97
49) 1,1,2-trichloroethane	15.69	97	148122	1.57	ppb	100
51) Toluene	15.45	92	200346	1.59	ppb	99
52) Methyl Isobutyl Ketone	14.51	43	211228	1.52	ppb	91
53) Dibromochloromethane	16.43	129	269609	1.47	ppb	100
54) Methyl Butyl Ketone	15.86	43	186079	1.54	ppb	93
55) 1,2-dibromoethane	16.69	107	211071	1.50	ppb	99
56) Tetrachloroethylene	16.52	164	144405	1.50	ppb	98
57) Chlorobenzene	17.54	112	280498	1.49	ppb	94
58) Ethylbenzene	17.80	91	430369	1.67	ppb	98
59) m&p-xylene	18.01	91	763431	3.15	ppb	99
60) Nonane	18.39	43	273193	1.58	ppb	85
61) Styrene	18.47	104	296833	1.55	ppb	99
62) Bromoform	18.60	173	265961	1.51	ppb	100
63) o-xylene	18.50	91	434349	1.50	ppb	100
64) Cumene	19.10	105	487865	1.65	ppb	100
66) 1,1,2,2-tetrachloroethane	18.97	83	340574	1.44	ppb	96
67) Propylbenzene	19.68	120	131487	1.65	ppb	83
68) 2-Chlorotoluene	19.73	126	148520	1.53	ppb	91
69) 4-ethyltoluene	19.86	105	533867	1.58	ppb	100
70) 1,3,5-trimethylbenzene	19.93	105	467880	1.53	ppb	100
71) 1,2,4-trimethylbenzene	20.42	105	382655	1.71	ppb	98
72) 1,3-dichlorobenzene	20.75	146	292703	1.52	ppb	99
73) benzyl chloride	20.83	91	242335	1.60	ppb	97
74) 1,4-dichlorobenzene	20.89	146	296113	1.58	ppb	98
75) 1,2,3-trimethylbenzene	20.94	105	418316	1.59	ppb	100
76) 1,2-dichlorobenzene	21.26	146	288575	1.55	ppb	98
77) 1,2,4-trichlorobenzene	23.38	180	99969	1.71	ppb	98
78) Naphthalene	23.59	128	199623	1.72	ppb	96
79) Hexachloro-1,3-butadiene	23.71	225	220385	1.53	ppb	98

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031805.D A318_1UG.M Wed Mar 28 06:59:21 2018 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031805.D
 Acq On : 18 Mar 2018 6:28 pm
 Sample : AIUG 1.50
 Misc : A318_IUG
 MS Integration Params: KTEINT.P
 Quant Time: Mar 19 8:34 2018
 Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00
 Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031806.D
 Acq On : 18 Mar 2018 7:09 pm
 Sample : A1UG_1.25
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:24 2018

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	51032	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	209013	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	161243	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.22	95	125469	1.01	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.56	41	80709	1.26	ppb	95
3) Freon 12	4.62	85	355209	1.23	ppb	99
4) Chloromethane	4.84	50	84456	1.25	ppb	100
5) Freon 114	4.85	85	288644	1.21	ppb	98
6) Vinyl Chloride	5.05	62	75167	1.23	ppb	97
7) Butane	5.18	43	91267	1.23	ppb	98
8) 1,3-butadiene	5.18	39	58373	1.20	ppb	100
9) Bromomethane	5.56	94	93300	1.24	ppb	97
10) Chloroethane	5.75	64	30460	1.22	ppb	# 81
11) Ethanol	5.84	45	20169m /	1.24	ppb	
12) Acrolein	6.46	56	18750	1.24	ppb	91
13) Vinyl Bromide	6.11	106	88023	1.26	ppb	98
14) Freon 11	6.40	101	355314	1.21	ppb	100
15) Acetone	6.57	58	24090	1.28	ppb	# 80
16) Pentane	6.70	42	49591	1.20	ppb	95
17) Isopropyl alcohol	6.68	45	72466	1.20	ppb	98
18) 1,1-dichloroethene	7.20	96	99749	1.23	ppb	# 84
19) Freon 113	7.41	101	236954	1.24	ppb	88
20) t-Butyl alcohol	7.44	59	160875	1.29	ppb	93
21) Methylene chloride	7.68	84	90524	1.24	ppb	# 78
22) Allyl chloride	7.66	41	113184	1.19	ppb	85
23) Carbon disulfide	7.85	76	213760	1.26	ppb	98
24) trans-1,2-dichloroethene	8.65	61	123758	1.23	ppb	89
25) methyl tert-butyl ether	8.67	73	204567	1.26	ppb	86
26) 1,1-dichloroethane	9.09	63	192673	1.24	ppb	99
27) Vinyl acetate	9.06	43	188061	1.25	ppb	93
28) Methyl Ethyl Ketone	9.57	72	40251	1.25	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	121638	1.24	ppb	90
30) Hexane	9.63	57	126240	1.24	ppb	97
31) Ethyl acetate	10.18	43	190401	1.24	ppb	98
32) Chloroform	10.66	83	232403	1.24	ppb	99
33) Tetrahydrofuran	10.83	42	88884	1.25	ppb	84
34) 1,2-dichloroethane	11.76	62	144615	1.23	ppb	99
36) 1,1,1-trichloroethane	11.49	97	217079	1.23	ppb	99
37) Cyclohexane	12.17	56	123804	1.28	ppb	86
38) Carbon tetrachloride	12.11	117	238507	1.24	ppb	100
39) Benzene	12.08	78	273418	1.27	ppb	98
40) Methyl methacrylate	13.59	41	104107	1.32	ppb	# 85
41) 1,4-dioxane	13.62	88	54189	1.28	ppb	87
42) 2,2,4-trimethylpentane	12.91	57	408726	1.28	ppb	99
43) Heptane	13.24	43	142018	1.29	ppb	88
44) Trichloroethene	13.38	130	117723	1.24	ppb	94
45) 1,2-dichloropropane	13.48	63	111174	1.26	ppb	99

(#) = qualifier out of range (m) = manual integration
 AP031806.D A318_1UG.M Wed Mar 28 06:59:24 2018

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031806.D Vial: 6
 Acq On : 18 Mar 2018 7:09 pm Operator: RJP
 Sample : A1UG_1.25 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:34:24 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.81	83	237460	1.24	ppb	99
47) cis-1,3-dichloropropene	14.61	75	139424	1.29	ppb	96
48) trans-1,3-dichloropropene	15.36	75	99658	1.31	ppb	98
49) 1,1,2-trichloroethane	15.69	97	120085	1.27	ppb	98
51) Toluene	15.46	92	155862	1.29	ppb	99
52) Methyl Isobutyl Ketone	14.51	43	171648	1.28	ppb	91
53) Dibromochloromethane	16.42	129	222616	1.26	ppb	98
54) Methyl Butyl Ketone	15.86	43	154812	1.33	ppb	91
55) 1,2-dibromoethane	16.69	107	169571	1.25	ppb	98
56) Tetrachloroethylene	16.52	164	116527	1.26	ppb	98
57) Chlorobenzene	17.54	112	224429	1.24	ppb	94
58) Ethylbenzene	17.80	91	332813	1.34	ppb	98
59) m&p-xylene	18.01	91	602639	2.58	ppb	99
60) Nonane	18.39	43	217563	1.31	ppb	84
61) Styrene	18.47	104	232973	1.26	ppb	99
62) Bromoform	18.60	173	209084	1.23	ppb	99
63) o-xylene	18.51	91	350846	1.26	ppb	100
64) Cumene	19.10	105	376696	1.32	ppb	100
66) 1,1,2,2-tetrachloroethane	18.97	83	278418	1.22	ppb	99
67) Propylbenzene	19.68	120	102030	1.32	ppb	84
68) 2-Chlorotoluene	19.73	126	121283	1.30	ppb	98
69) 4-ethyltoluene	19.86	105	425242	1.30	ppb	99
70) 1,3,5-trimethylbenzene	19.93	105	372870	1.26	ppb	97
71) 1,2,4-trimethylbenzene	20.42	105	289908	1.34	ppb	100
72) 1,3-dichlorobenzene	20.75	146	235747	1.27	ppb	99
73) benzyl chloride	20.83	91	191342	1.31	ppb	97
74) 1,4-dichlorobenzene	20.90	146	236093	1.31	ppb	99
75) 1,2,3-trimethylbenzene	20.95	105	329296	1.30	ppb	100
76) 1,2-dichlorobenzene	21.26	146	230811	1.28	ppb	99
77) 1,2,4-trichlorobenzene	23.38	180	75954	1.35	ppb	99
78) Naphthalene	23.59	128	152973	1.37	ppb	95
79) Hexachloro-1,3-butadiene	23.71	225	172651	1.24	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031806.D A318_1UG.M Wed Mar 28 06:59:24 2018 MSD1

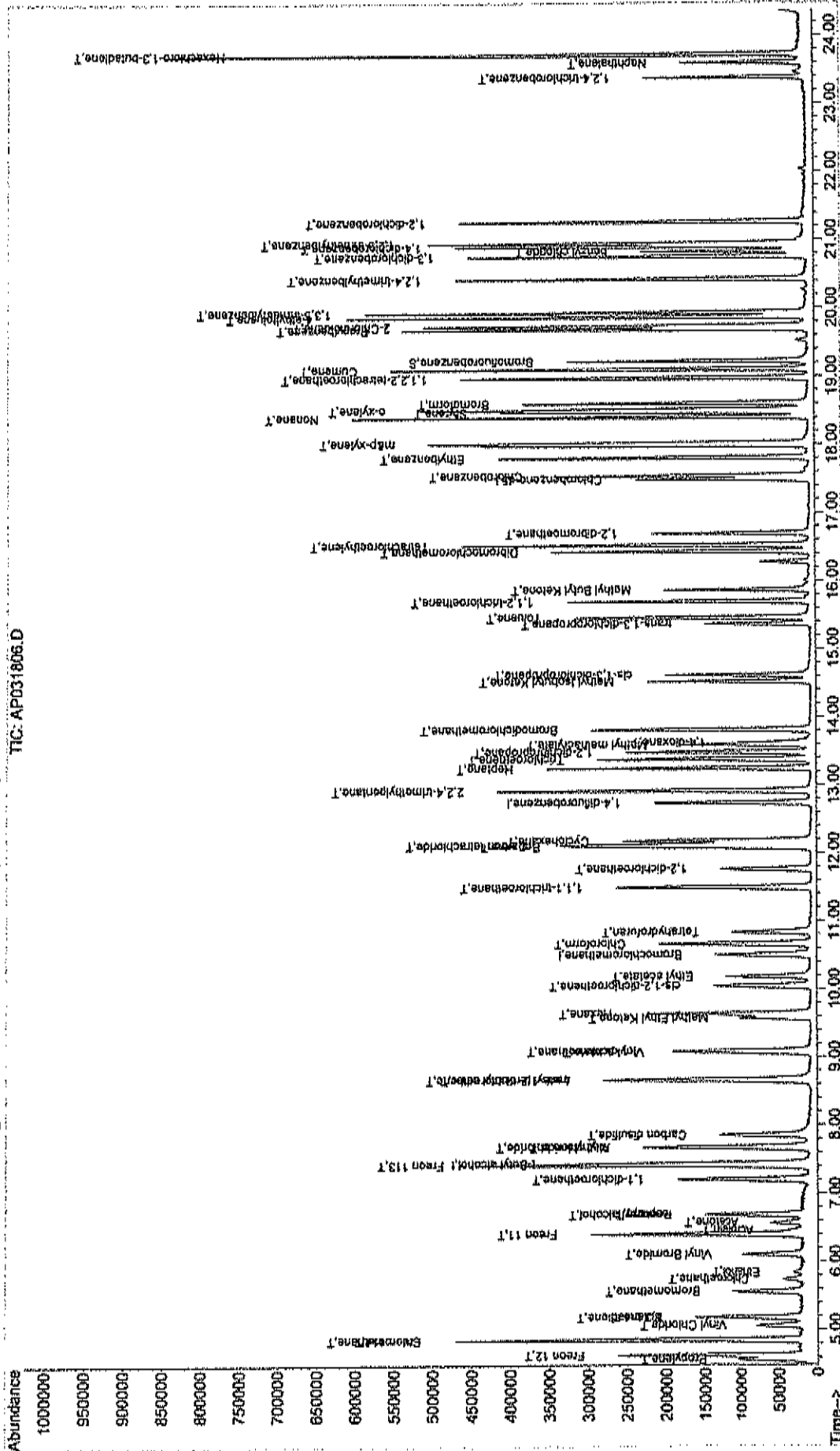
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031806.D
 Acq On : 18 Mar 2018 7:09 pm
 Sample : A1UG 1.25
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 8:40 2018

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031807.D
 Acq On : 18 Mar 2018 7:48 pm
 Sample : A1UG_1.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:33:58 2018

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	49622	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	205236	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	155903	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	120375	1.00	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.56	41	62241	1.00	ppb	98
3) Freon 12	4.63	85	281128	1.00	ppb	100
4) Chloromethane	4.84	50	65633	1.00	ppb	97
5) Freon 114	4.85	85	232191	1.00	ppb	99
6) Vinyl Chloride	5.06	62	59422	1.00	ppb	99
7) Butane	5.18	43	72138	1.00	ppb	98
8) 1,3-butadiene	5.18	39	47497	1.00	ppb	96
9) Bromomethane	5.56	94	73191	1.00	ppb	99
10) Chloroethane	5.75	64	24252	1.00	ppb	98
11) Ethanol	5.84	45	15850	1.00	ppb	# 79
12) Acrolein	6.47	56	14714	1.00	ppb	93
13) Vinyl Bromide	6.11	106	67822	1.00	ppb	95
14) Freon 11	6.40	101	284917	1.00	ppb	100
15) Acetone	6.57	58	18257	1.00	ppb	90
16) Pentane	6.70	42	40099	1.00	ppb	96
17) Isopropyl alcohol	6.69	45	58530	1.00	ppb	99
18) 1,1-dichloroethene	7.20	96	78622	1.00	ppb	# 85
19) Freon 113	7.41	101	185264	1.00	ppb	88
20) t-Butyl alcohol	7.44	59	120830	1.00	ppb	# 88
21) Methylene chloride	7.67	84	70792	1.00	ppb	# 77
22) Allyl chloride	7.66	41	92274	1.00	ppb	84
23) Carbon disulfide	7.85	76	165081	1.00	ppb	88
24) trans-1,2-dichloroethene	8.65	61	97533	1.00	ppb	87
25) methyl tert-butyl ether	8.66	73	157817	1.00	ppb	84
26) 1,1-dichloroethane	9.08	63	151395	1.00	ppb	100
27) Vinyl acetate	9.06	43	146808	1.00	ppb	94
28) Methyl Ethyl Ketone	9.57	72	31281	1.00	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	95358	1.00	ppb	89
30) Hexane	9.63	57	99088	1.00	ppb	97
31) Ethyl acetate	10.18	43	148802	1.00	ppb	96
32) Chloroform	10.66	83	182265	1.00	ppb	99
33) Tetrahydrofuran	10.84	42	69327	1.00	ppb	79
34) 1,2-dichloroethane	11.76	62	114662	1.00	ppb	99
36) 1,1,1-trichloroethane	11.49	97	173362	1.00	ppb	99
37) Cyclohexane	12.17	56	94630	1.00	ppb	87
38) Carbon tetrachloride	12.11	117	188787	1.00	ppb	99
39) Benzene	12.08	78	211165	1.00	ppb	98
40) Methyl methacrylate	13.59	41	77578	1.00	ppb	# 81
41) 1,4-dioxane	13.62	88	41640	1.00	ppb	84
42) 2,2,4-trimethylpentane	12.91	57	313051	1.00	ppb	97
43) Heptane	13.24	43	108426	1.00	ppb	87
44) Trichloroethene	13.37	130	93392	1.00	ppb	95
45) 1,2-dichloropropane	13.48	63	86518	1.00	ppb	100

(#) = qualifier out of range (m) = manual integration
 AP031807.D A318_1UG.M Wed Mar 28 06:59:27 2018

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031807.D
 Acq On : 18 Mar 2018 7:48 pm
 Sample : A1UG_1.0
 Misc : A318_1UG

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.F
 Quant Time: Mar 19 08:33:58 2018

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.81	83	187818	1.00	ppb	99
47) cis-1,3-dichloropropene	14.60	75	106128	1.00	ppb	97
48) trans-1,3-dichloropropene	15.37	75	74885	1.00	ppb	98
49) 1,1,2-trichloroethane	15.69	97	92692	1.00	ppb	99
51) Toluene	15.46	92	117111	1.00	ppb	100
52) Methyl Isobutyl Ketone	14.51	43	129739	1.00	ppb	90
53) Dibromochloromethane	16.42	129	170691	1.00	ppb	99
54) Methyl Butyl Ketone	15.87	43	112943	1.00	ppb	90
55) 1,2-dibromoethane	16.69	107	131477	1.00	ppb	99
56) Tetrachloroethylene	16.52	164	89724	1.00	ppb	97
57) Chlorobenzene	17.53	112	174911	1.00	ppb	94
58) Ethylbenzene	17.80	91	239806	1.00	ppb	100
59) m&p-xylene	18.01	91	451935	2.00	ppb	99
60) Nonane	18.40	43	160690	1.00	ppb	84
61) Styrene	18.47	104	178893	1.00	ppb	99
62) Bromoform	18.60	173	163797	1.00	ppb	100
63) o-xylene	18.50	91	269049	1.00	ppb	100
64) Cumene	19.10	105	275349	1.00	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	221158	1.00	ppb	99
67) Propylbenzene	19.68	120	74467	1.00	ppb	81
68) 2-Chlorotoluene	19.73	126	90476	1.00	ppb	93
69) 4-ethyltoluene	19.86	105	315348	1.00	ppb	99
70) 1,3,5-trimethylbenzene	19.93	105	285012	1.00	ppb	99
71) 1,2,4-trimethylbenzene	20.42	105	208516	1.00	ppb	100
72) 1,3-dichlorobenzene	20.75	146	178944	1.00	ppb	98
73) benzyl chloride	20.83	91	141324	1.00	ppb	97
74) 1,4-dichlorobenzene	20.90	146	174182	1.00	ppb	98
75) 1,2,3-trimethylbenzene	20.95	105	245637	1.00	ppb	99
76) 1,2-dichlorobenzene	21.27	146	174055	1.00	ppb	98
77) 1,2,4-trichlorobenzene	23.38	180	54418	1.00	ppb	99
78) Naphthalene	23.59	128	108235	1.00	ppb	95
79) Hexachloro-1,3-butadiene	23.71	225	134494	1.00	ppb	98

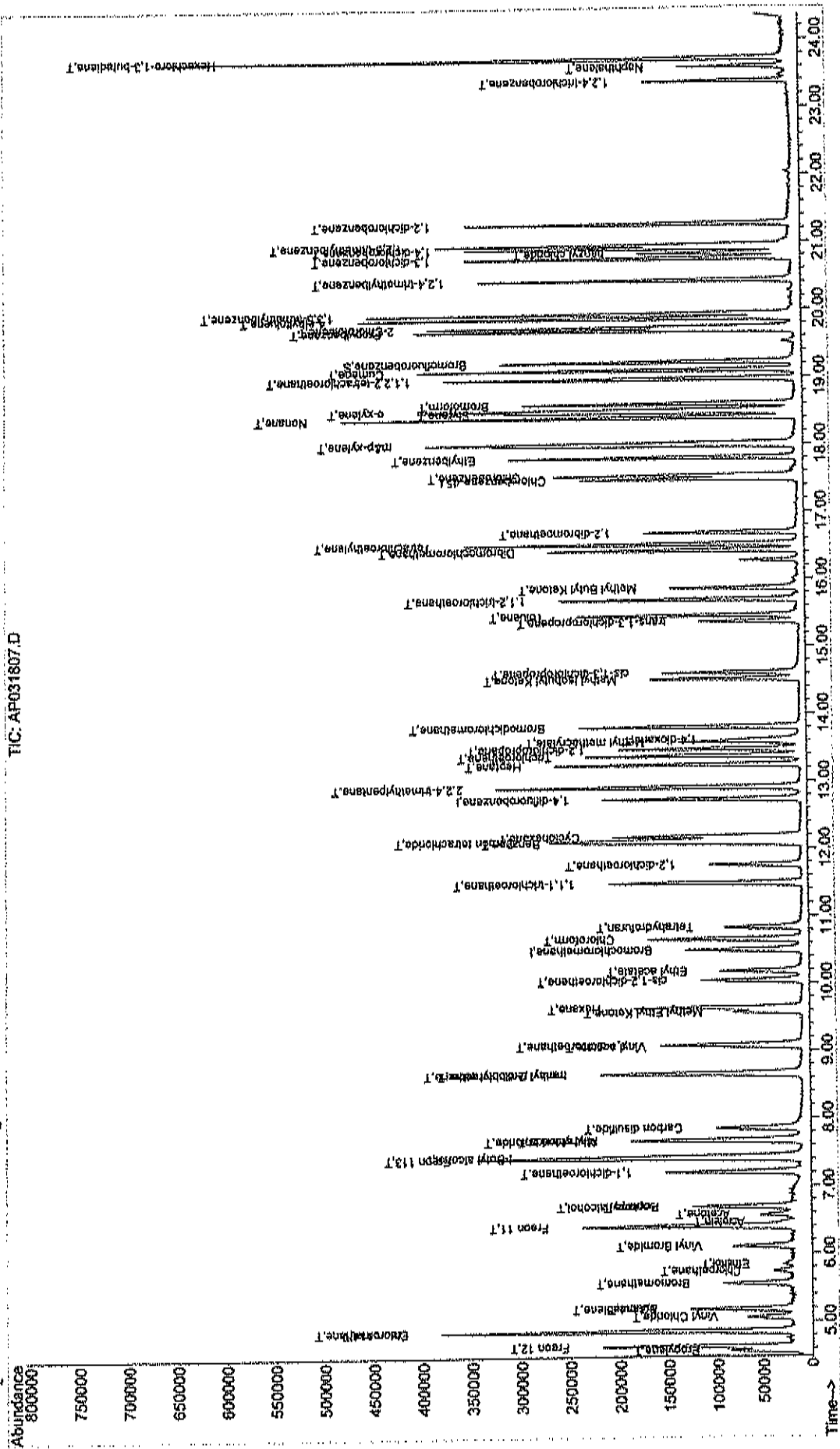
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031807.D A318_1UG.M Wed Mar 28 06:59:27 2018 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031807.D
 Acq On : 18 Mar 2018 7:48 pm
 Sample : AUG_1.0
 Misc : A318 IUG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 8:33 2018
 Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D

TIC: AP031807.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031808.D
 Acq On : 18 Mar 2018 8:27 pm
 Sample : A1UG_0.75
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:35:43 2018

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	49170	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	201576	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	152194	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Bromofluorobenzene	19.21	95	116546	0.99	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.57	41	44573	0.72	ppb	99
3) Freon 12	4.63	85	209721	0.75	ppb	99
4) Chloromethane	4.85	50	49972	0.77	ppb	98
5) Freon 114	4.85	85	175066	0.76	ppb	99
6) Vinyl Chloride	5.07	62	44113	0.75	ppb	96
7) Butane	5.18	43	54085	0.76	ppb	100
8) 1,3-butadiene	5.17	39	33577	0.71	ppb	94
9) Bromomethane	5.55	94	53405	0.74	ppb	97
10) Chloroethane	5.74	64	18114	0.75	ppb	89
11) Ethanol	5.85	45	10726	0.68	ppb	82
12) Acrolein	6.47	56	11856m	0.81	ppb	
13) Vinyl Bromide	6.10	106	51621	0.77	ppb	98
14) Freon 11	6.40	101	211337	0.75	ppb	98
15) Acetone	6.57	58	14258	0.79	ppb	88
16) Pentane	6.69	42	29644	0.75	ppb	90
17) Isopropyl alcohol	6.69	45	45419	0.78	ppb	97
18) 1,1-dichloroethene	7.21	96	59071	0.76	ppb	# 84
19) Freon 113	7.41	101	138918	0.76	ppb	88
20) t-Butyl alcohol	7.44	59	93374	0.78	ppb	# 91
21) Methylene chloride	7.68	84	54892	0.78	ppb	# 83
22) Allyl chloride	7.66	41	63984	0.70	ppb	85
23) Carbon disulfide	7.86	76	127162	0.78	ppb	100
24) trans-1,2-dichloroethene	8.65	61	73162	0.76	ppb	87
25) methyl tert-butyl ether	8.67	73	119349	0.76	ppb	84
26) 1,1-dichloroethane	9.09	63	112986	0.75	ppb	99
27) Vinyl acetate	9.06	43	102261	0.70	ppb	89
28) Methyl Ethyl Ketone	9.57	72	23065	0.74	ppb	# 100
29) cis-1,2-dichloroethene	10.05	61	69427	0.73	ppb	91
30) Hexane	9.63	57	70361	0.72	ppb	97
31) Ethyl acetate	10.18	43	107120	0.73	ppb	97
32) Chloroform	10.66	83	135289	0.75	ppb	99
33) Tetrahydrofuran	10.83	42	50958	0.74	ppb	82
34) 1,2-dichloroethane	11.76	62	84175	0.74	ppb	100
36) 1,1,1-trichloroethane	11.49	97	127003	0.75	ppb	100
37) Cyclohexane	12.17	56	67780	0.73	ppb	88
38) Carbon tetrachloride	12.11	117	136561	0.74	ppb	99
39) Benzene	12.08	78	153355	0.74	ppb	97
40) Methyl methacrylate	13.59	41	55246	0.73	ppb	# 86
41) 1,4-dioxane	13.62	88	30494	0.75	ppb	77
42) 2,2,4-trimethylpentane	12.91	57	222529	0.72	ppb	95
43) Heptane	13.24	43	76785	0.72	ppb	87
44) Trichloroethene	13.37	130	68123	0.74	ppb	93
45) 1,2-dichloropropane	13.48	63	65142	0.77	ppb	99

(#) = qualifier out of range (m) = manual integration
 AP031808.D A318_1UG.M Wed Mar 28 06:59:31 2018

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031808.D
 Acq On : 18 Mar 2018 8:27 pm
 Sample : A1UG_0.75
 Misc : A318_1UG

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:35:43 2018

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	135594	0.74	ppb	100
47) cis-1,3-dichloropropene	14.61	75	74921	0.72	ppb	97
48) trans-1,3-dichloropropene	15.36	75	51731	0.70	ppb	97
49) 1,1,2-trichloroethane	15.69	97	70438	0.77	ppb	100
51) Toluene	15.45	92	80052	0.70	ppb	97
52) Methyl Isobutyl Ketone	14.52	43	92058	0.73	ppb	92
53) Dibromochloromethane	16.42	129	125186	0.75	ppb	99
54) Methyl Butyl Ketone	15.86	43	77750	0.71	ppb	93
55) 1,2-dibromoethane	16.69	107	94325	0.73	ppb	99
56) Tetrachloroethylene	16.52	164	65902	0.75	ppb	96
57) Chlorobenzene	17.54	112	125063	0.73	ppb	95
58) Ethylbenzene	17.80	91	164825	0.70	ppb	98
59) m&p-xylene	18.01	91	304224	1.38	ppb	100
60) Nonane	18.40	43	107303	0.68	ppb	84
61) Styrene	18.47	104	122912	0.70	ppb	98
62) Bromoform	18.60	173	118988	0.74	ppb	100
63) o-xylene	18.50	91	193360	0.74	ppb	97
64) Cumene	19.10	105	187812	0.70	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	161498	0.75	ppb	97
67) Propylbenzene	19.68	120	50608	0.70	ppb	82
68) 2-Chlorotoluene	19.73	126	63108	0.71	ppb	93
69) 4-ethyltoluene	19.86	105	217544	0.71	ppb	99
70) 1,3,5-trimethylbenzene	19.93	105	197564	0.71	ppb	99
71) 1,2,4-trimethylbenzene	20.42	105	141353	0.69	ppb	100
72) 1,3-dichlorobenzene	20.75	146	125134	0.72	ppb	99
73) benzyl chloride	20.83	91	98314	0.71	ppb	96
74) 1,4-dichlorobenzene	20.90	146	123451	0.73	ppb	98
75) 1,2,3-trimethylbenzene	20.95	105	167924	0.70	ppb	100
76) 1,2-dichlorobenzene	21.26	146	121765	0.72	ppb	98
77) 1,2,4-trichlorobenzene	23.38	180	36872	0.69	ppb	99
78) Naphthalene	23.59	128	73133	0.69	ppb	90
79) Hexachloro-1,3-butadiene	23.72	225	98159	0.75	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031808.D A318_1UG.M Wed Mar 28 06:59:31 2018 MSD1

Quantitation Report (QT Reviewed)

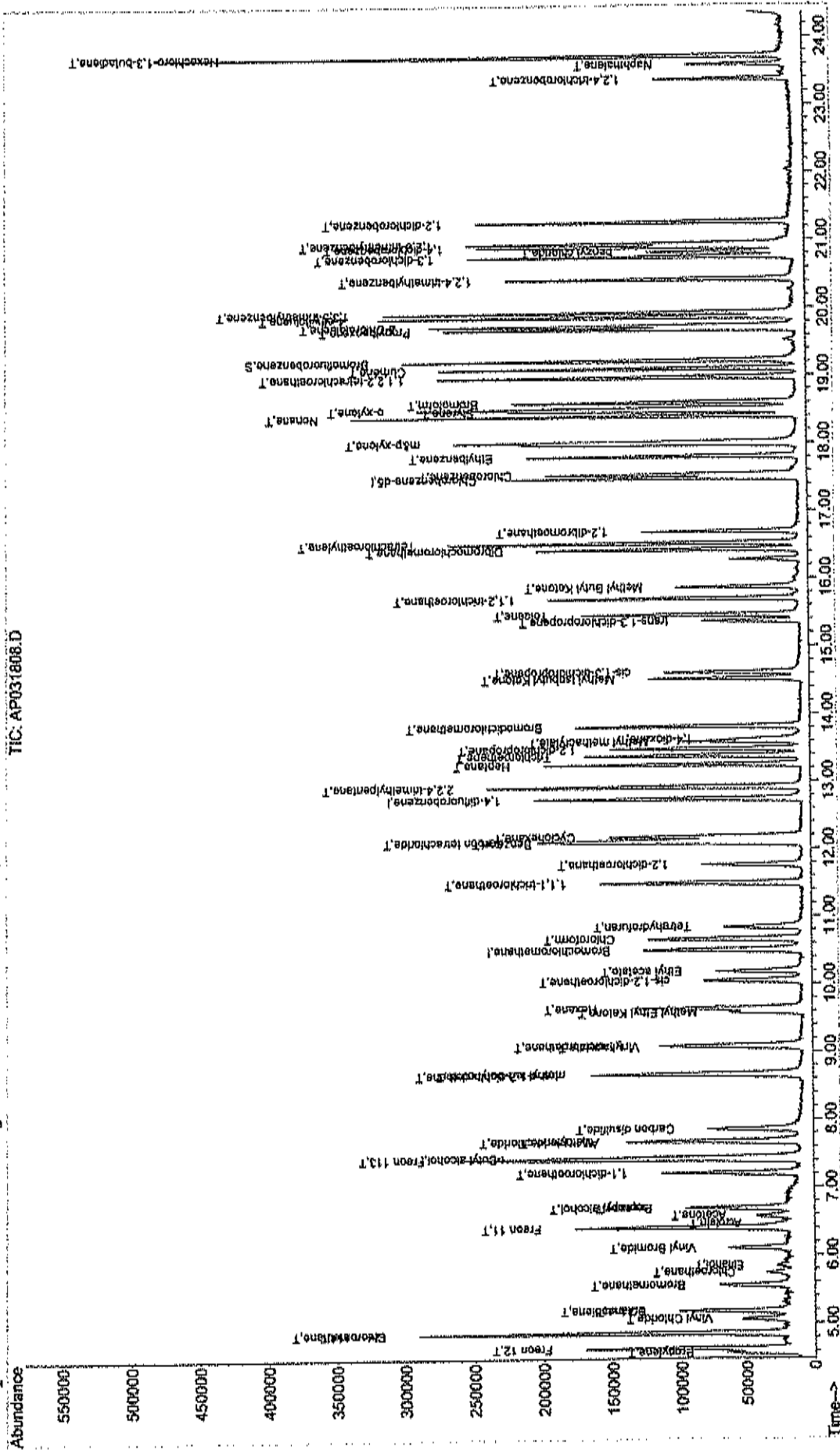
Data File : C:\HPCHEM\1\DATA\AP031808.D
Acq On : 18 Mar 2018 8:27 pm
Sample : A1UG 0.75
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:41 2018

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D

TIC: AP031808.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031809.D Vial: 9
 Acq On : 18 Mar 2018 9:05 pm Operator: RJP
 Sample : ALUG_0.50 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:36:20 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	49052	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	195249	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	143473	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 103699 0.94 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.57	41	31577	0.51	ppb	93
3) Freon 12	4.63	85	141953	0.51	ppb	98
4) Chloromethane	4.84	50	33370	0.51	ppb	99
5) Freon 114	4.85	85	116181	0.51	ppb	100
6) Vinyl Chloride	5.07	62	30088	0.51	ppb	98
7) Butane	5.19	43	36943	0.52	ppb	97
8) 1,3-butadiene	5.19	39	24589	0.52	ppb	98
9) Bromomethane	5.56	94	36934	0.51	ppb	97
10) Chloroethane	5.75	64	12818	0.53	ppb	97
11) Ethanol	5.85	45	8383m ^A	0.54	ppb	
12) Acrolein	6.47	56	8078m ^B	0.56	ppb	
13) Vinyl Bromide	6.11	106	34482	0.51	ppb	98
14) Freon 11	6.40	101	142743	0.51	ppb	100
15) Acetone	6.59	58	9076	0.50	ppb	95
16) Pentane	6.70	42	20784	0.52	ppb	98
17) Isopropyl alcohol	6.70	45	30507	0.53	ppb	97
18) 1,1-dichloroethene	7.20	96	38112	0.49	ppb	# 85
19) Freon 113	7.41	101	92271	0.50	ppb	88
20) t-Butyl alcohol	7.44	59	61070	0.51	ppb	93
21) Methylene chloride	7.67	84	36034	0.51	ppb	# 78
22) Allyl chloride	7.66	41	42714	0.47	ppb	85
23) Carbon disulfide	7.86	76	85207	0.52	ppb	100
24) trans-1,2-dichloroethene	8.65	61	45296	0.47	ppb	91
25) methyl tert-butyl ether	8.67	73	75848	0.49	ppb	80
26) 1,1-dichloroethane	9.09	63	74889	0.50	ppb	99
27) Vinyl acetate	9.07	43	65653	0.45	ppb	86
28) Methyl Ethyl Ketone	9.58	72	15659	0.51	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	46201	0.49	ppb	89
30) Hexane	9.64	57	46427	0.47	ppb	95
31) Ethyl acetate	10.19	43	72336	0.49	ppb	99
32) Chloroform	10.65	83	89224	0.50	ppb	100
33) Tetrahydrofuran	10.84	42	31719	0.46	ppb	82
34) 1,2-dichloroethane	11.76	62	57431	0.51	ppb	97
36) 1,1,1-trichloroethane	11.49	97	85115	0.52	ppb	97
37) Cyclohexane	12.17	56	42154	0.47	ppb	86
38) Carbon tetrachloride	12.11	117	91492	0.51	ppb	99
39) Benzene	12.08	78	102803	0.51	ppb	98
40) Methyl methacrylate	13.59	41	34591	0.47	ppb	# 82
41) 1,4-dioxane	13.63	88	18690	0.47	ppb	80
42) 2,2,4-trimethylpentane	12.91	57	143185	0.48	ppb	97
43) Heptane	13.24	43	47912	0.46	ppb	85
44) Trichloroethene	13.38	130	43927	0.49	ppb	94
45) 1,2-dichloropropane	13.48	63	42188	0.51	ppb	98

(#) = qualifier out of range (m) = manual integration
 AP031809.D A318_1UG.M Wed Mar 28 06:59:35 2018

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031809.D Vial: 9
 Acq On : 18 Mar 2018 9:05 pm Operator: RJP
 Sample : A1UG_0.50 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:36:20 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.81	83	88922	0.50	ppb	99
47) cis-1,3-dichloropropene	14.61	75	46908	0.46	ppb	96
48) trans-1,3-dichloropropene	15.36	75	32080	0.45	ppb	98
49) 1,1,2-trichloroethane	15.69	97	45727	0.52	ppb	99
51) Toluene	15.46	92	48337	0.45	ppb	98
52) Methyl Isobutyl Ketone	14.52	43	57939	0.49	ppb	88
53) Dibromochloromethane	16.43	129	79647	0.51	ppb	100
54) Methyl Butyl Ketone	15.87	43	47265	0.45	ppb	90
55) 1,2-dibromoethane	16.69	107	59200	0.49	ppb	98
56) Tetrachloroethylene	16.52	164	42998	0.52	ppb	100
57) Chlorobenzene	17.53	112	77329	0.48	ppb	90
58) Ethylbenzene	17.80	91	95936	0.43	ppb	99
59) m&p-xylene	18.01	91	167588	0.81	ppb	100
60) Nonane	18.40	43	61949	0.42	ppb	# 81
61) Styrene	18.47	104	73380	0.45	ppb	98
62) Bromoform	18.60	173	75335	0.50	ppb	99
63) o-xylene	18.51	91	113540	0.46	ppb	97
64) Cumene	19.10	105	109330	0.43	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	106254	0.52	ppb	98
67) Propylbenzene	19.68	120	29960	0.44	ppb	82
68) 2-Chlorotoluene	19.73	126	38614	0.46	ppb	97
69) 4-ethyltoluene	19.86	105	127732	0.44	ppb	98
70) 1,3,5-trimethylbenzene	19.92	105	115958	0.44	ppb	100
71) 1,2,4-trimethylbenzene	20.42	105	81161	0.42	ppb	99
72) 1,3-dichlorobenzene	20.75	146	75732	0.46	ppb	99
73) benzyl chloride	20.83	91	58361	0.45	ppb	98
74) 1,4-dichlorobenzene	20.90	146	71666	0.45	ppb	98
75) 1,2,3-trimethylbenzene	20.95	105	91368	0.40	ppb	98
76) 1,2-dichlorobenzene	21.26	146	76683	0.48	ppb	99
77) 1,2,4-trichlorobenzene	23.38	180	21472	0.43	ppb	97
78) Naphthalene	23.59	128	40829	0.41	ppb	96
79) Hexachloro-1,3-butadiene	23.71	225	64500	0.52	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031809.D A318_1UG.M Wed Mar 28 06:59:35 2018 MSD1

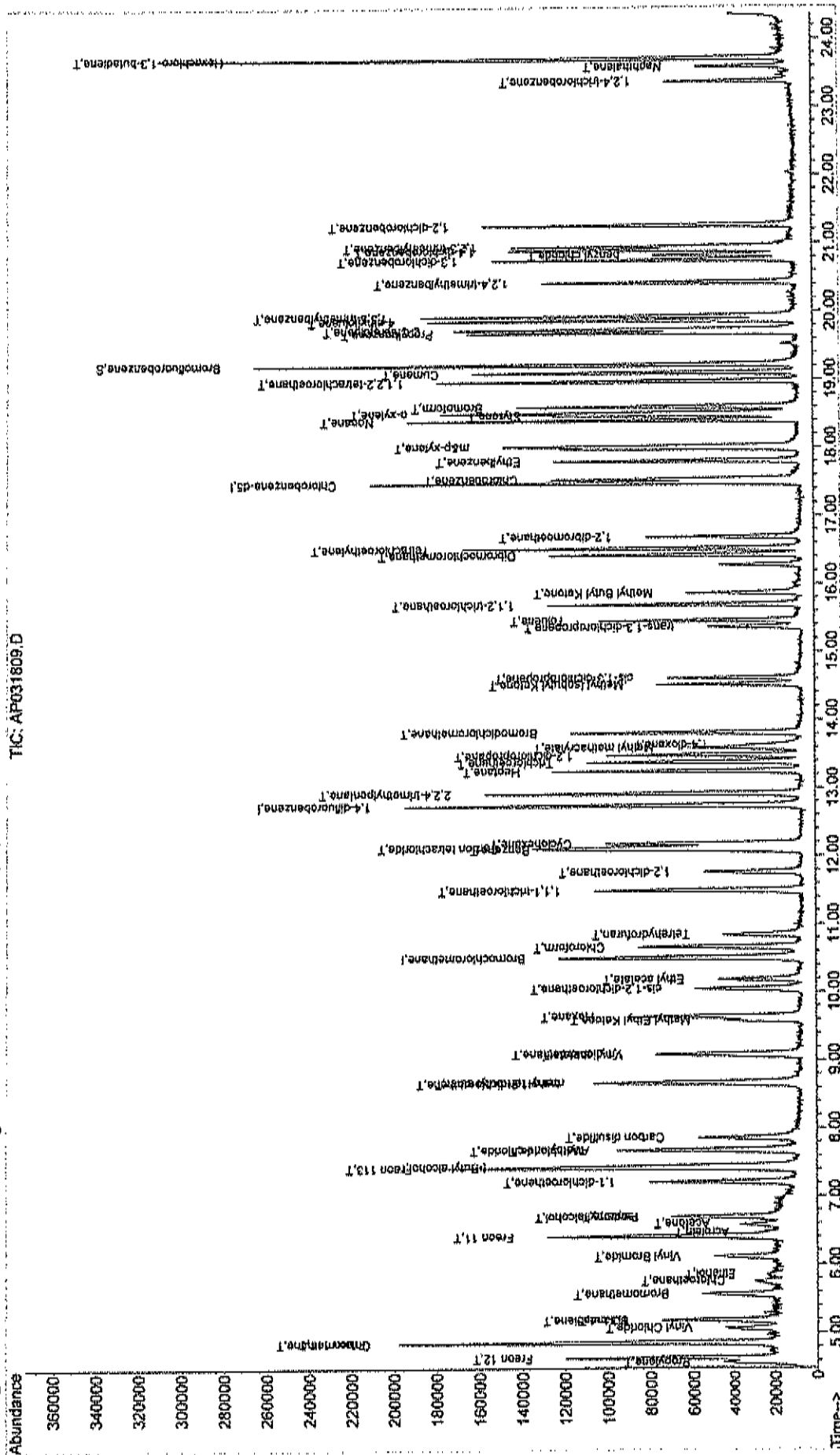
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031809.D
Acq On : 18 Mar 2018 9:05 pm
Sample : A1UG 0.50
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:42 2018

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D

TIC: AP031809.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031810.D
 Acq On : 18 Mar 2018 9:42 pm
 Sample : A1UG_0.30
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:36:46 2018

Vial: 10
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	45565	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	185586	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	136295	1.00	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Bromofluorobenzene	19.21	95	93453	0.89	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	89.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.57	41	19407	0.34	ppb	92
3) Freon 12	4.63	85	80730	0.31	ppb	99
4) Chloromethane	4.85	50	26121	0.43	ppb	99
5) Freon 114	4.85	85	81099	0.38	ppb	95
6) Vinyl Chloride	5.06	62	22133	0.41	ppb	95
7) Butane	5.19	43	26441	0.40	ppb	93
8) 1,3-butadiene	5.19	39	18180	0.42	ppb	97
9) Bromomethane	5.57	94	25367	0.38	ppb	96
10) Chloroethane	5.74	64	8607	0.39	ppb	91
11) Ethanol	5.84	45	5883m	0.40	ppb	
12) Acrolein	6.47	56	5667m	0.42	ppb	
13) Vinyl Bromide	6.11	106	21376	0.34	ppb	98
14) Freon 11	6.41	101	90270	0.35	ppb	99
15) Acetone	6.59	58	5492m	0.33	ppb	
16) Pentane	6.69	42	18190m	0.49	ppb	
17) Isopropyl alcohol	6.70	45	24145m	0.45	ppb	
18) 1,1-dichloroethene	7.22	96	22570	0.31	ppb	# 85
19) Freon 113	7.41	101	56387	0.33	ppb	# 86
20) t-Butyl alcohol	7.45	59	34535	0.31	ppb	# 85
21) Methylene chloride	7.68	84	22329	0.34	ppb	# 81
22) Allyl chloride	7.67	41	25119	0.30	ppb	79
23) Carbon disulfide	7.85	76	52532	0.35	ppb	87
24) trans-1,2-dichloroethene	8.65	61	27086	0.30	ppb	91
25) methyl tert-butyl ether	8.68	73	43958	0.30	ppb	76
26) 1,1-dichloroethane	9.09	63	44444	0.32	ppb	98
27) Vinyl acetate	9.07	43	37629	0.28	ppb	94
28) Methyl Ethyl Ketone	9.58	72	8524	0.30	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	26769	0.31	ppb	92
30) Hexane	9.64	57	27646	0.30	ppb	98
31) Ethyl acetate	10.18	43	41229	0.30	ppb	89
32) Chloroform	10.66	83	55164	0.33	ppb	100
33) Tetrahydrofuran	10.84	42	19366	0.30	ppb	79
34) 1,2-dichloroethane	11.76	62	32988	0.31	ppb	99
36) 1,1,1-trichloroethane	11.49	97	50617	0.32	ppb	98
37) Cyclohexane	12.18	56	24531	0.29	ppb	87
38) Carbon tetrachloride	12.12	117	54344	0.32	ppb	99
39) Benzene	12.08	78	58979	0.31	ppb	98
40) Methyl methacrylate	13.58	41	19222	0.27	ppb	# 84
41) 1,4-dioxane	13.64	88	9838	0.26	ppb	86
42) 2,2,4-trimethylpentane	12.91	57	79692	0.28	ppb	90
43) Heptane	13.25	43	26126	0.27	ppb	87
44) Trichloroethene	13.38	130	26138	0.31	ppb	95
45) 1,2-dichloropropane	13.47	63	26203	0.33	ppb	67

(#) = qualifier out of range (m) = manual integration
 AP031810.D A318_1UG.M Wed Mar 28 06:59:38 2018

MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031810.D Vial: 10
 Acq On : 18 Mar 2018 9:42 pm Operator: RJP
 Sample : A1UG_0.30 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:36:46 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	Qion	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	54074	0.32	ppb	98
47) cis-1,3-dichloropropene	14.62	75	26068	0.27	ppb	97
48) trans-1,3-dichloropropene	15.37	75	18443	0.27	ppb	93
49) 1,1,2-trichloroethane	15.69	97	27144	0.32	ppb	97
51) Toluene	15.46	92	27125	0.26	ppb	100
52) Methyl Isobutyl Ketone	14.52	43	32623	0.29	ppb	89
53) Dibromochloromethane	16.43	129	48317	0.32	ppb	98
54) Methyl Butyl Ketone	15.87	43	26383	0.27	ppb	82
55) 1,2-dibromoethane	16.69	107	34409	0.30	ppb	99
56) Tetrachloroethylene	16.52	164	26451	0.34	ppb	97
57) Chlorobenzene	17.54	112	43882	0.29	ppb	92
58) Ethylbenzene	17.80	91	54048	0.26	ppb	100
59) m&p-xylene	18.01	91	86493	0.44	ppb	100
60) Nonane	18.40	43	31943m	0.23	ppb	
61) Styrene	18.47	104	37970	0.24	ppb	99
62) Bromoform	18.60	173	43814	0.31	ppb	98
63) o-xylene	18.51	91	59190	0.25	ppb	99
64) Cumene	19.10	105	60251	0.25	ppb	98
66) 1,1,2,2-tetrachloroethane	18.97	83	63345	0.33	ppb	99
67) Propylbenzene	19.68	120	16429	0.25	ppb	86
68) 2-Chlorotoluene	19.74	126	20762	0.26	ppb	99
69) 4-ethyltoluene	19.86	105	64196	0.23	ppb	98
70) 1,3,5-trimethylbenzene	19.93	105	59892	0.24	ppb	100
71) 1,2,4-trimethylbenzene	20.42	105	44266	0.24	ppb	98
72) 1,3-dichlorobenzene	20.75	146	41667	0.27	ppb	98
73) benzyl chloride	20.82	91	33252	0.27	ppb	96
74) 1,4-dichlorobenzene	20.90	146	37662	0.25	ppb	98
75) 1,2,3-trimethylbenzene	20.94	105	47481	0.22	ppb	97
76) 1,2-dichlorobenzene	21.26	146	41143	0.27	ppb	96
77) 1,2,4-trichlorobenzene	23.38	180	11185	0.24	ppb	96
78) Naphthalene	23.59	128	19659	0.21	ppb	96
79) Hexachloro-1,3-butadiene	23.71	225	36783	0.31	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031810.D A318_1UG.M Wed Mar 28 06:59:38 2018 MSD1

Quantitation Report (QF Reviewed)

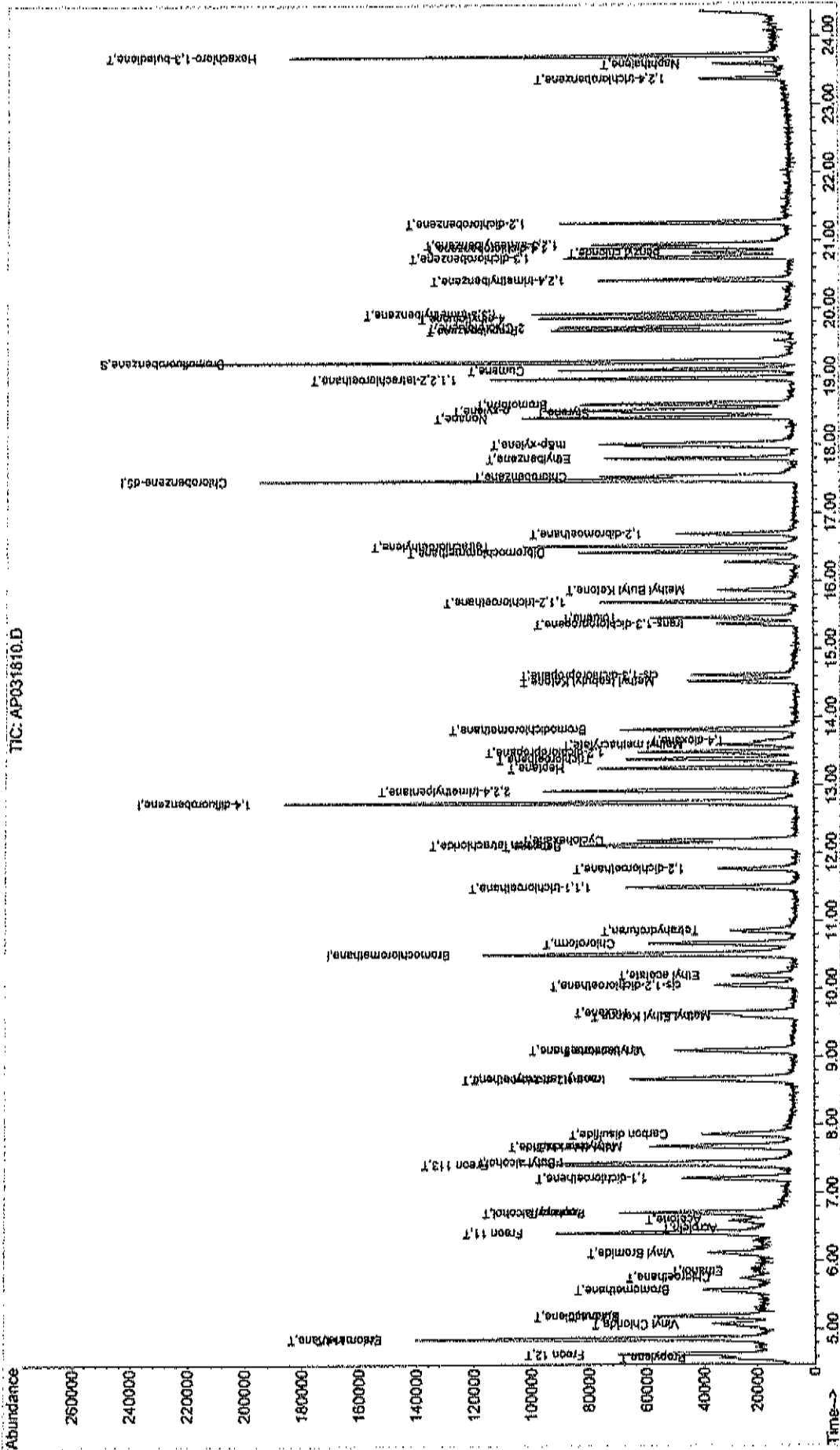
Data File : C:\HPCHEM\1\DATA\AP031810.D
Acq On : 18 Mar 2018 9:42 pm
Sample : A1UG_0.30
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:44 2018

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D

TIC: AP031810.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031811.D
 Acq On : 18 Mar 2018 10:19 pm
 Sample : A1UG_0.15
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:37:18 2018

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	44941	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	184489	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	129043	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	19.21	95	77409	0.78	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	78.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.57	41	9446	0.17	ppb	95
3) Freon 12	4.63	85	45273	0.18	ppb	99
4) Chloromethane	4.85	50	11471	0.19	ppb	84
5) Freon 114	4.86	85	37668	0.18	ppb	98
6) Vinyl Chloride	5.07	62	9054m	0.17	ppb	
7) Butane	5.18	43	12587	0.19	ppb	# 89
8) 1,3-butadiene	5.18	39	8416m	0.20	ppb	
9) Bromomethane	5.57	94	11969	0.18	ppb	92
10) Chloroethane	5.74	64	4005m	0.18	ppb	
11) Ethanol	5.85	45	3013m	0.21	ppb	
12) Acrolein	6.47	56	2408	0.18	ppb	91
13) Vinyl Bromide	6.10	106	11343	0.18	ppb	92
14) Freon 11	6.41	101	48012	0.19	ppb	97
15) Acetone	6.58	58	2543	0.15	ppb	90
16) Pentane	6.70	42	4754	0.13	ppb	# 41
17) Isopropyl alcohol	6.70	45	9204	0.17	ppb	93
18) 1,1-dichloroethene	7.21	96	12588	0.18	ppb	89
19) Freon 113	7.41	101	22446	0.13	ppb	86
20) t-Butyl alcohol	7.45	59	18574	0.17	ppb	# 83
21) Methylene chloride	7.68	84	12331	0.19	ppb	# 82
22) Allyl chloride	7.67	41	14272	0.17	ppb	# 60
23) Carbon disulfide	7.86	76	27864	0.19	ppb	90
24) trans-1,2-dichloroethene	8.65	61	13972	0.16	ppb	89
25) methyl tert-butyl ether	8.68	73	24016	0.17	ppb	79
26) 1,1-dichloroethane	9.09	63	24279	0.18	ppb	95
27) Vinyl acetate	9.07	43	18625	0.14	ppb	81
28) Methyl Ethyl Ketone	9.60	72	4793m	0.17	ppb	
29) cis-1,2-dichloroethene	10.04	61	14608	0.17	ppb	87
30) Hexane	9.64	57	14498	0.16	ppb	97
31) Ethyl acetate	10.19	43	21247	0.16	ppb	97
32) Chloroform	10.66	83	27994	0.17	ppb	96
33) Tetrahydrofuran	10.84	42	10134	0.16	ppb	# 31
34) 1,2-dichloroethane	11.76	62	17392	0.17	ppb	100
36) 1,1,1-trichloroethane	11.49	97	27279	0.18	ppb	98
37) Cyclohexane	12.17	56	11961	0.14	ppb	88
38) Carbon tetrachloride	12.12	117	28227	0.17	ppb	97
39) Benzene	12.08	78	32242	0.17	ppb	94
40) Methyl methacrylate	13.59	41	8862	0.13	ppb	# 84
41) 1,4-dioxane	13.64	88	4915	0.13	ppb	85
42) 2,2,4-trimethylpentane	12.91	57	40251	0.14	ppb	90
43) Heptane	13.24	43	13026	0.13	ppb	88
44) Trichloroethene	13.37	130	13631	0.16	ppb	93
45) 1,2-dichloropropane	13.48	63	13037	0.17	ppb	79

(#) = qualifier out of range (m) = manual integration
 AP031811.D A318_1UG.M Wed Mar 28 06:59:41 2018

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031811.D
 Acq On : 18 Mar 2018 10:19 pm
 Sample : A1UG_0.15
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:37:18 2018

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.81	83	27331	0.16	ppb	98
47) cis-1,3-dichloropropene	14.60	75	12526	0.13	ppb #	51
48) trans-1,3-dichloropropene	15.36	75	9654	0.14	ppb	94
49) 1,1,2-trichloroethane	15.69	97	13580	0.16	ppb	99
51) Toluene	15.45	92	14150	0.15	ppb	89
52) Methyl Isobutyl Ketone	14.51	43	14743	0.14	ppb	96
53) Dibromochloromethane	16.43	129	23891	0.17	ppb	97
54) Methyl Butyl Ketone	15.87	43	12508	0.13	ppb	84
55) 1,2-dibromoethane	16.70	107	17339	0.16	ppb	98
56) Tetrachloroethylene	16.52	164	13687	0.18	ppb	97
57) Chlorobenzene	17.53	112	23903	0.17	ppb	91
58) Ethylbenzene	17.80	91	26121	0.13	ppb	100
59) m&p-xylene	18.01	91	38479	0.21	ppb #	55
60) Nonane	18.39	43	13594m ^β	0.10	ppb	
61) Styrene	18.47	104	15946m [↓]	0.11	ppb	
62) Bromoform	18.60	173	21068	0.16	ppb	95
63) o-xylene	18.50	91	24083	0.11	ppb	99
64) Cumene	19.10	105	26430	0.12	ppb	98
66) 1,1,2,2-tetrachloroethane	18.97	83	32647	0.18	ppb	97
67) Propylbenzene	19.68	120	7903	0.13	ppb	88
68) 2-Chlorotoluene	19.74	126	8991	0.12	ppb #	84
69) 4-ethyltoluene	19.86	105	28629	0.11	ppb	80
70) 1,3,5-trimethylbenzene	19.93	105	23905	0.10	ppb	99
71) 1,2,4-trimethylbenzene	20.42	105	20866	0.12	ppb	99
72) 1,3-dichlorobenzene	20.76	146	19594	0.13	ppb	99
73) benzyl chloride	20.83	91	15672	0.13	ppb	99
74) 1,4-dichlorobenzene	20.89	146	16954	0.12	ppb	99
76) 1,2-dichlorobenzene	21.26	146	18689	0.13	ppb	97
77) 1,2,4-trichlorobenzene	23.37	180	5132	0.11	ppb	88
78) Naphthalene	23.58	128	10281m [∧]	0.11	ppb	
79) Hexachloro-1,3-butadiene	23.71	225	18197	0.16	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031811.D A318_1UG.M Wed Mar 28 06:59:41 2018 MSD1

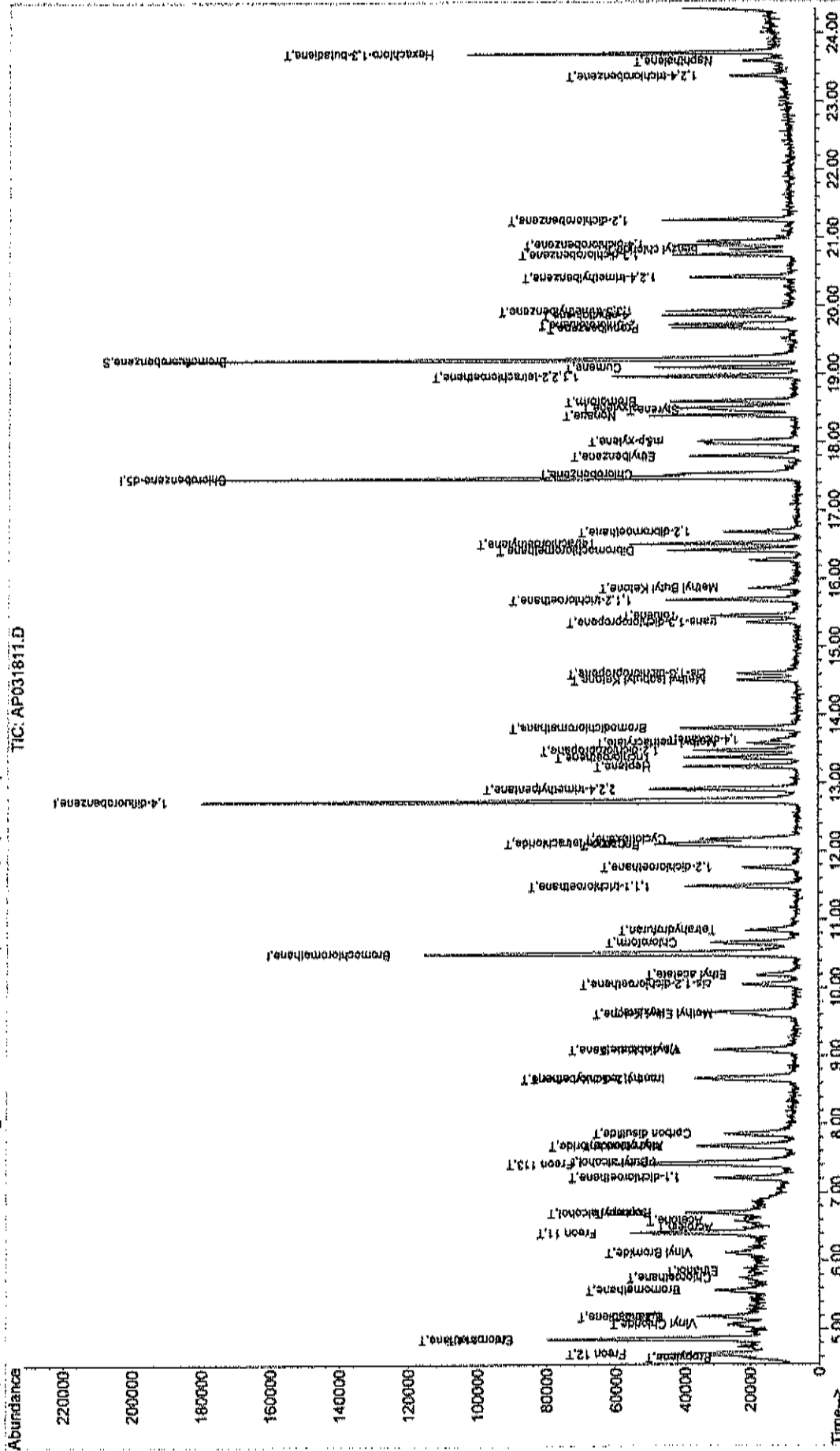
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031811.D
 Acq On : 18 Mar 2018 10:19 pm
 Sample : A1UG 0.15
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 8:51 2018

Vial: 11
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : IO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 21 12:56:38 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031812.D Vial: 12
 Acq On : 18 Mar 2018 10:56 pm Operator: RJP
 Sample : A1UG_0.10 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:37:37 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	46119	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	179993	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	122701	1.00	ppb	0.00

System Monitoring Compounds						
65) Bromofluorobenzene	19.22	95	71966	0.76	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	76.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	5.06	62	5711	0.10	ppb	91
18) 1,1-dichloroethene	7.21	96	8649	0.12	ppb	# 82
26) 1,1-dichloroethane	9.09	63	16786	0.12	ppb	99
29) cis-1,2-dichloroethene	10.05	61	9586	0.11	ppb	# 76
38) Carbon tetrachloride	12.12	117	20538	0.12	ppb	98
44) Trichloroethene	13.38	130	8999	0.11	ppb	89
78) Naphthalene	23.58	128	6809m /	0.08	ppb	

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031812.D A318_1UG.M Wed Mar 28 06:59:45 2018 MSD1

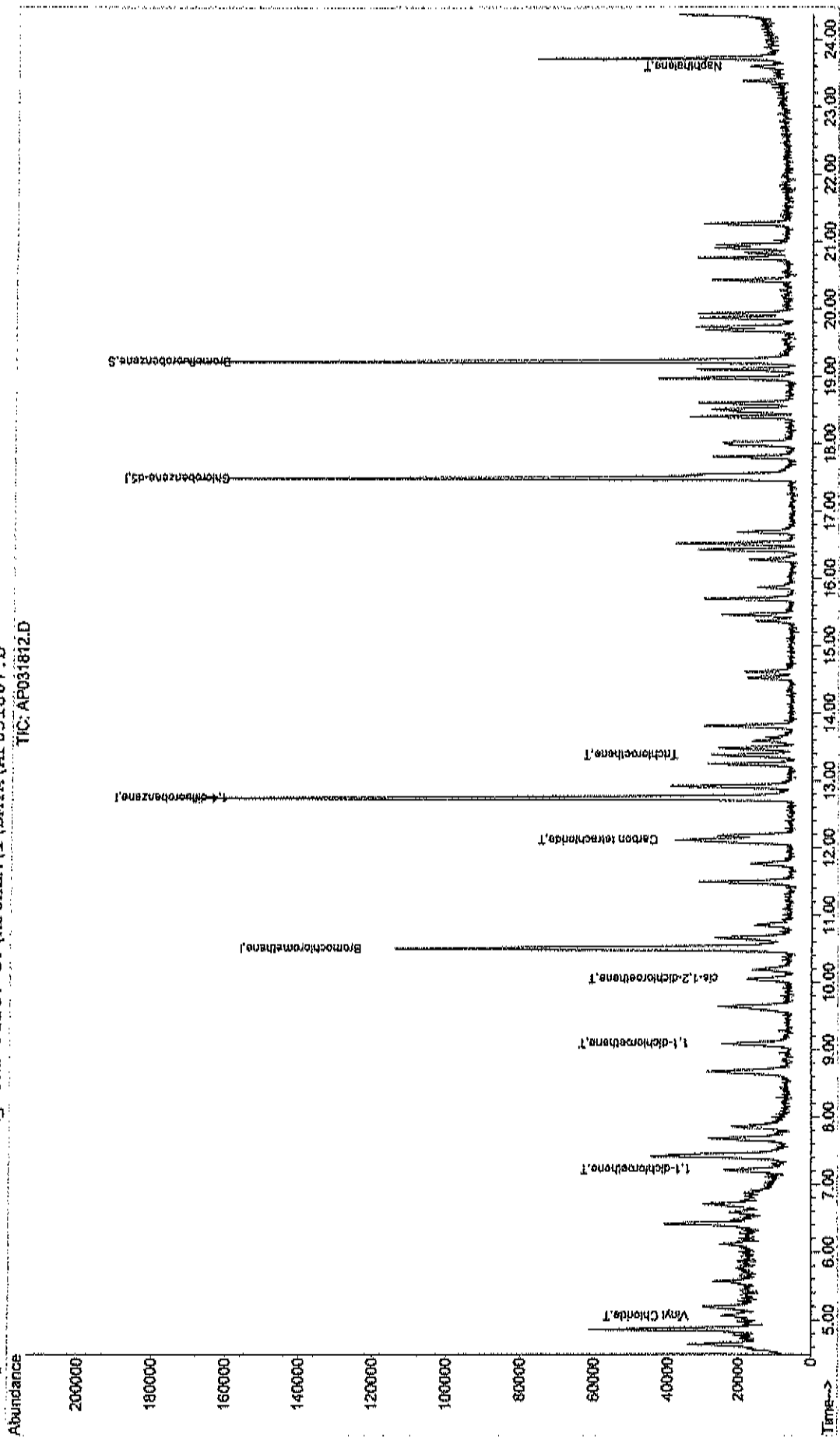
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031812.D
Acq On : 18 Mar 2018 10:56 pm
Sample : A1UG 0.10
Misc : A318_LUG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:52 2018

Vial: 12
Operator: RJP
Inst : MSD #1
Multipir: 1.00

Quant Results File: A318_LUG.RES

Method : C:\HPCHEM\1\METHODS\A318_LUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



TIC: AP031812.D

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031813.D Vial: 13
 Acq On : 18 Mar 2018 11:32 pm Operator: RJP
 Sample : A1UG_0.04 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:37:54 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	44739	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	175091	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	115441	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	63362m	0.71	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	71.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	5.06	62	3611	0.07	ppb	79
18) 1,1-dichloroethene	7.19	96	4364	0.06	ppb	# 74
29) cis-1,2-dichloroethene	10.04	61	5131m <i>m</i>	0.06	ppb	
38) Carbon tetrachloride	12.11	117	9776	0.06	ppb	95
44) Trichloroethene	13.37	130	4263	0.05	ppb	87
78) Naphthalene	23.59	128	2731	0.03	ppb	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031813.D A318_1UG.M Wed Mar 28 06:59:48 2018 MSD1

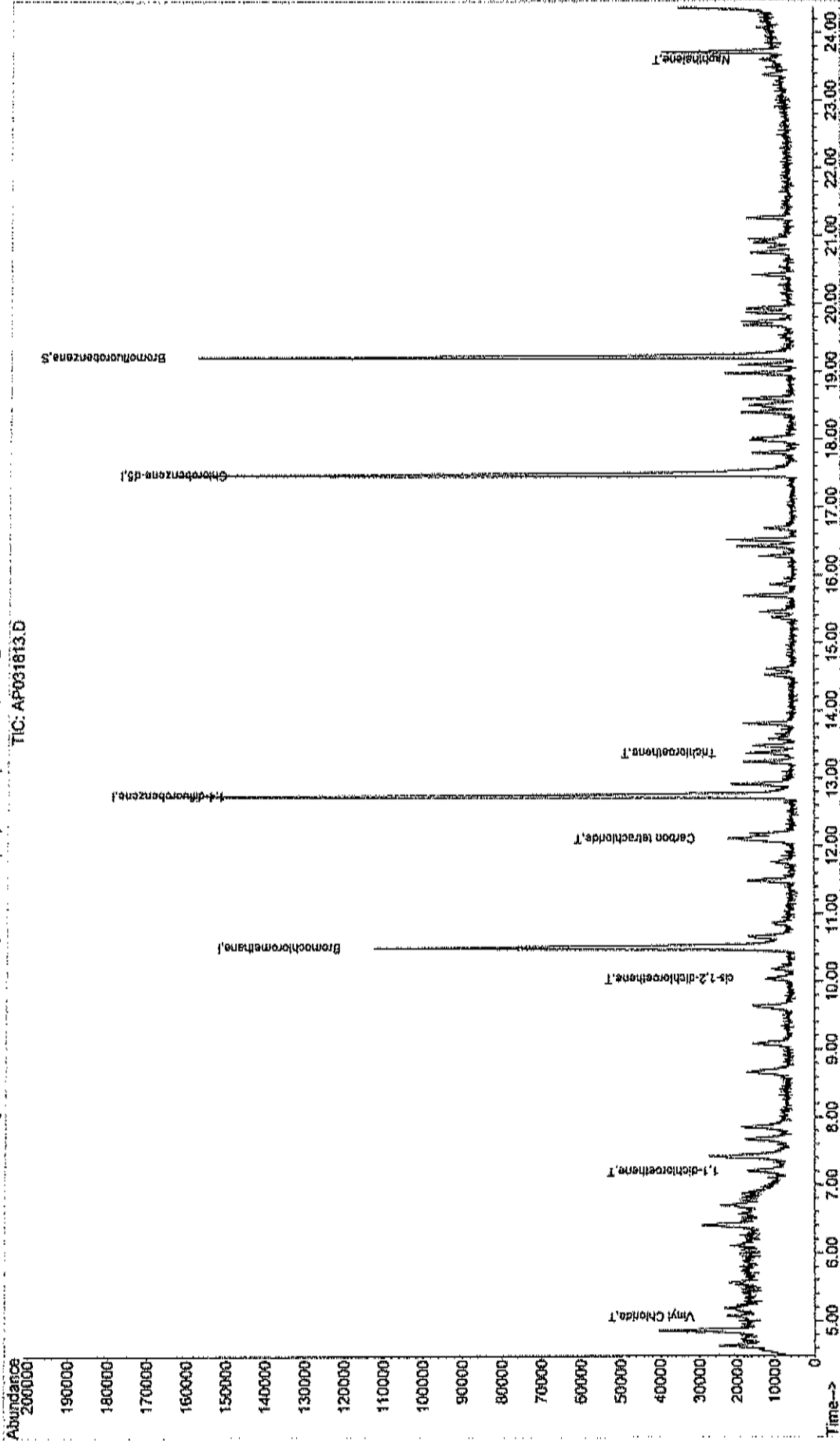
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031813.D
Acq On : 18 Mar 2018 11:32 pm
Sample : ALUG_0.04
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 10:18 2018

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031814.D Vial: 14
 Acq On : 19 Mar 2018 12:09 am Operator: RJP
 Sample : A1UG_0.03 Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 19 08:38:12 2018 Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 08:33:45 2018
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	44468	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	171032	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	113766	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.21 95 62889m¹⁰ 0.72 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 72.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	5.06	62	1991	0.04	ppb	70
29) cis-1,2-dichloroethene	10.05	61	2744	0.03	ppb #	62
38) Carbon tetrachloride	12.11	117	6660	0.04	ppb #	69
44) Trichloroethene	13.39	130	2957	0.04	ppb #	11

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP031814.D A318_1UG.M Wed Mar 28 06:59:51 2018 MSD1

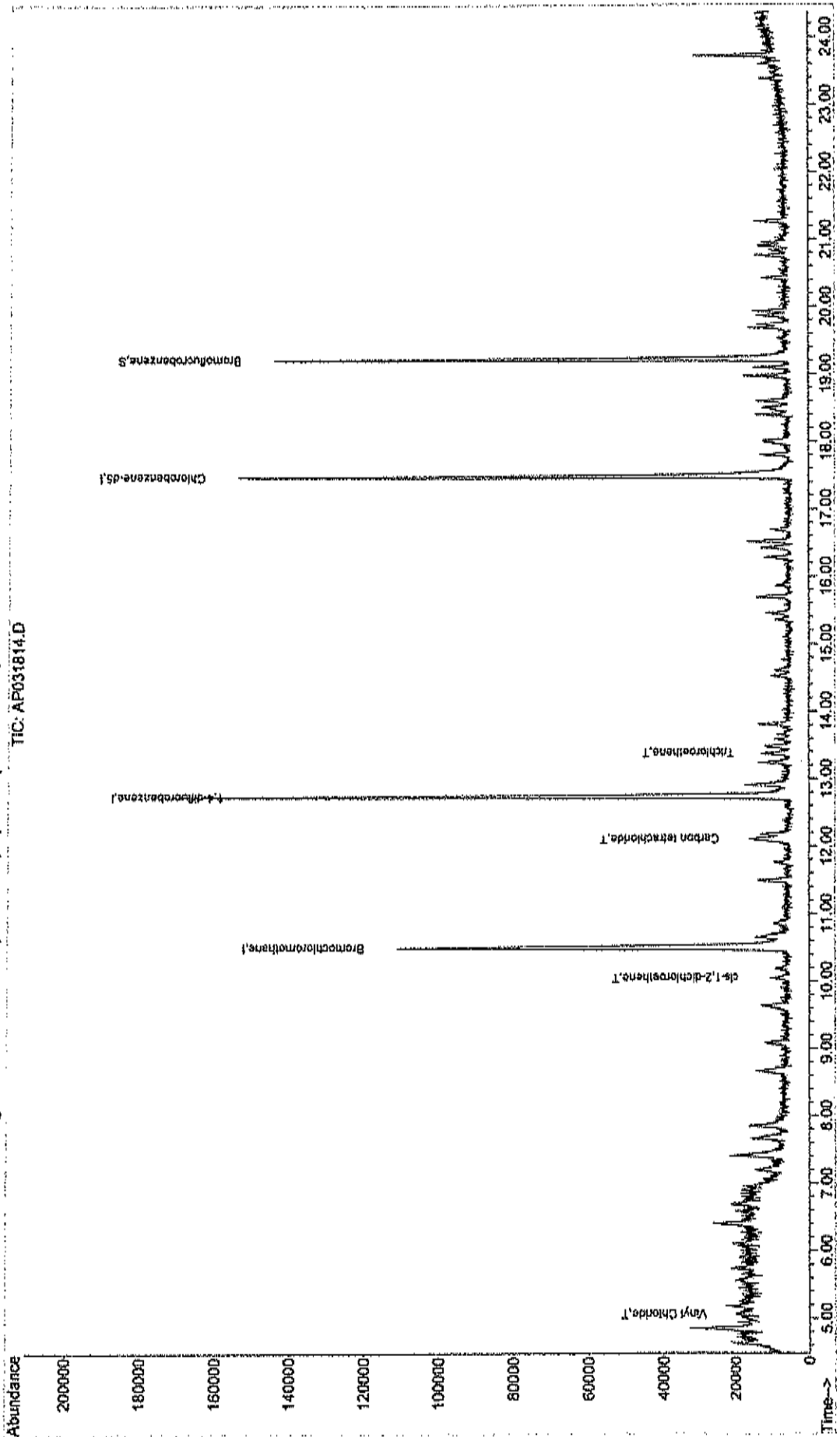
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP031814.D
Acq On : 19 Mar 2018 12:09 am
Sample : A1UG.0.03
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 19 8:54 2018

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 21 12:56:38 2018
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AP031807.D



TIC: AP031814.D

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AP032003.D
 Acq On : 20 Mar 2018 11:17 am
 Sample : A1UG_1.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 28 07:31:52 2018
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Propylene	1.300	1.271	2.2	94	0.00
3 T	Freon 12	5.814	5.858	-0.8	96	0.00
4 T	Chloromethane	1.445	1.283	11.2	90	0.00
5 T	Freon 114	4.917	4.566	7.1	91	0.00
6 T	Vinyl Chloride	1.350	1.144	15.3	89	0.00
7 T	Butane	1.563	1.371	12.3	88	0.00
8 T	1,3-butadiene	1.030	0.915	11.2	89	0.00
9 T	Bromomethane	1.559	1.397	10.4	88	0.00
10 T	Chloroethane	0.522	0.484	7.3	92	0.00
11 T	Ethanol	0.341	0.286	16.1	83	0.00
12 T	Acrolein	0.329	0.306	7.0	96	0.00
13 T	Vinyl Bromide	1.447	1.388	4.1	94	0.00
14 T	Freon 11	5.991	5.617	6.2	91	0.00
15 T	Acetone	0.379	0.349	7.9	88	0.00
16 T	Pentane	0.866	0.797	8.0	92	0.00
17 T	Isopropyl alcohol	1.399	1.150	17.8	91	0.00
18 T	1,1-dichloroethene	1.715	1.299	24.3	76	0.00
19 T	Freon 113	3.720	3.928	-5.6	98	0.00
20 t	t-Butyl alcohol	2.517	2.550	-1.3	97	0.00
21 T	Methylene chloride	1.519	1.467	3.4	96	0.00
22 T	Allyl chloride	1.828	1.718	6.0	86	0.00
23 T	Carbon disulfide	3.533	3.346	5.3	93	0.00
24 T	trans-1,2-dichloroethene	1.967	1.924	2.2	91	0.00
25 T	methyl tert-butyl ether	3.255	3.161	2.9	92	0.00
26 T	1,1-dichloroethane	3.197	2.994	6.3	91	0.00
27 T	Vinyl acetate	2.877	2.785	3.2	87	0.00
28 T	Methyl Ethyl Ketone	0.646	0.638	1.2	94	0.00
29 T	cis-1,2-dichloroethene	2.054	1.930	6.0	93	0.00
30 T	Hexane	1.999	1.884	5.8	88	0.00
31 T	Ethyl acetate	3.018	2.920	3.2	90	0.00
32 T	Chloroform	3.756	3.625	3.5	92	0.00
33 T	Tetrahydrofuran	1.414	1.352	4.4	90	0.00
34 T	1,2-dichloroethane	2.352	2.287	2.8	92	0.00
35 I	1,4-difluorobenzene	1.000	1.000	0.0	88	0.00
36 T	1,1,1-trichloroethane	0.873	0.861	1.4	90	0.00
37 T	Cyclohexane	0.461	0.473	-2.6	90	0.00
38 T	Carbon tetrachloride	1.033	0.916	11.3	88	0.00
39 T	Benzene	1.059	1.080	-2.0	92	0.00
40 T	Methyl methacrylate	0.380	0.382	-0.5	89	0.00
41 T	1,4-dioxane	0.200	0.215	-7.5	93	0.00
42 T	2,2,4-trimethylpentane	1.523	1.536	-0.9	89	0.00
43 T	Heptane	0.524	0.528	-0.8	88	0.00
44 T	Trichloroethene	0.489	0.475	2.9	92	0.00
45 T	1,2-dichloropropane	0.442	0.446	-0.9	93	0.00
46 T	Bromodichloromethane	0.930	0.927	0.3	89	0.00
47 T	cis-1,3-dichloropropene	0.511	0.516	-1.0	88	0.00
48 T	trans-1,3-dichloropropene	0.363	0.381	-5.0	92	0.00
49 T	1,1,2-trichloroethane	0.471	0.480	-1.9	94	0.00

(#) = Out of Range

AP032003.D A318_1UG.M

Wed Mar 28 07:36:48 2018

MSD1

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AP032003.D
 Acq On : 20 Mar 2018 11:17 am
 Sample : A1UG_1.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 28 07:31:52 2018
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51 T	Toluene	0.743	0.756	-1.7	87	0.00
52 T	Methyl Isobutyl Ketone	0.827	0.842	-1.8	87	0.00
53 T	Dibromochloromethane	1.125	1.114	1.0	88	0.00
54 T	Methyl Butyl Ketone	0.715	0.671	6.2	80	0.00
55 T	1,2-dibromoethane	0.848	0.891	-5.1	91	0.00
56 T	Tetrachloroethylene	0.607	0.604	0.5	91	0.00
57 T	Chlorobenzene	1.124	1.158	-3.0	89	0.00
58 T	Ethylbenzene	1.526	1.566	-2.6	88	0.00
59 T	m&p-xylene	1.329	1.493	-12.3	89	0.00
60 T	Nonane	0.958	1.050	-9.6	88	0.00
61 T	Styrene	1.072	1.200	-11.9	90	0.00
62 T	Bromoform	1.060	1.052	0.8	86	0.00
63 T	o-xylene	1.621	1.851	-14.2	93	0.00
64 T	Cumene	1.711	1.829	-6.9	89	0.00
65 S	Bromofluorobenzene	0.690	0.793	-14.9	89	0.00
66 T	1,1,2,2-tetrachloroethane	1.459	1.508	-3.4	92	0.00
67 T	Propylbenzene	0.469	0.500	-6.6	90	0.00
68 T	2-Chlorotoluene	0.557	0.622	-11.7	92	0.00
69 T	4-ethyltoluene	1.911	2.160	-13.0	92	0.00
70 T	1,3,5-trimethylbenzene	1.693	1.934	-14.2	91	0.00
71 T	1,2,4-trimethylbenzene	1.311	1.406	-7.2	91	0.00
72 T	1,3-dichlorobenzene	1.113	1.233	-10.8	93	0.00
73 T	benzyl chloride	0.897	0.957	-6.7	91	0.00
74 T	1,4-dichlorobenzene	1.073	1.216	-13.3	94	0.00
75 T	1,2,3-trimethylbenzene	1.449	1.636	-12.9	90	0.00
76 T	1,2-dichlorobenzene	1.090	1.227	-12.6	95	0.00
77 T	1,2,4-trichlorobenzene	0.340	0.375	-10.3	93	0.00
78 T	Naphthalene	0.646	0.676	-4.6	84	0.00
79 T	Hexachloro-1,3-butadiene	0.885	0.955	-7.9	96	0.00

Data File : C:\HPCHEM\1\DATA\AP032003.D
 Acq On : 20 Mar 2018 11:17 am
 Sample : A1UG_1.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 20 11:55:40 2018

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.50	128	46099	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	180776	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	134559	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	106757	1.15	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	115.00%

Target Compounds

						Qvalue
2) Propylene	4.57	41	58609	0.98	ppb	93
3) Freon 12	4.63	85	270063	1.01	ppb	99
4) Chloromethane	4.85	50	59124	0.89	ppb	99
5) Freon 114	4.85	85	210472	0.93	ppb	98
6) Vinyl Chloride	5.06	62	52748	0.85	ppb	99
7) Butane	5.18	43	63218	0.88	ppb	96
8) 1,3-butadiene	5.18	39	42161	0.89	ppb	92
9) Bromomethane	5.56	94	64417	0.90	ppb	96
10) Chloroethane	5.75	64	22315	0.93	ppb	98
11) Ethanol	5.85	45	13180m/0	0.84	ppb	
12) Acrolein	6.46	56	14123	0.93	ppb	98
13) Vinyl Bromide	6.11	106	63981	0.96	ppb	99
14) Freon 11	6.40	101	258941	0.94	ppb	99
15) Acetone	6.58	58	16106	0.92	ppb	97
16) Pentane	6.69	42	36747	0.92	ppb	99
17) Isopropyl alcohol	6.69	45	53013	0.82	ppb	100
18) 1,1-dichloroethene	7.20	96	59902	0.76	ppb	96
19) Freon 113	7.41	101	181087	1.06	ppb	89
20) t-Butyl alcohol	7.44	59	117569	1.01	ppb	91
21) Methylene chloride	7.68	84	67621	0.97	ppb	# 83
22) Allyl chloride	7.66	41	79208	0.94	ppb	88
23) Carbon disulfide	7.86	76	154259	0.95	ppb	97
24) trans-1,2-dichloroethene	8.65	61	88696	0.98	ppb	91
25) methyl tert-butyl ether	8.67	73	145710	0.97	ppb	83
26) 1,1-dichloroethane	9.09	63	138009	0.94	ppb	99
27) Vinyl acetate	9.06	43	128399	0.97	ppb	95
28) Methyl Ethyl Ketone	9.57	72	29430	0.99	ppb	# 100
29) cis-1,2-dichloroethene	10.05	61	88964	0.94	ppb	87
30) Hexane	9.63	57	86837	0.94	ppb	95
31) Ethyl acetate	10.18	43	134607	0.97	ppb	99
32) Chloroform	10.66	83	167104	0.97	ppb	98
33) Tetrahydrofuran	10.83	42	62304	0.96	ppb	82
34) 1,2-dichloroethane	11.76	62	105448	0.97	ppb	98
36) 1,1,1-trichloroethane	11.49	97	155673	0.99	ppb	99
37) Cyclohexane	12.18	56	85482	1.03	ppb	87
38) Carbon tetrachloride	12.12	117	165677	0.89	ppb	99
39) Benzene	12.08	78	195242	1.02	ppb	98
40) Methyl methacrylate	13.59	41	69033	1.00	ppb	# 85
41) 1,4-dioxane	13.62	88	38850	1.08	ppb	87
42) 2,2,4-trimethylpentane	12.91	57	277586	1.01	ppb	96
43) Heptane	13.24	43	95524	1.01	ppb	89
44) Trichloroethene	13.38	130	85904	0.97	ppb	94
45) 1,2-dichloropropane	13.48	63	80607	1.01	ppb	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AP032003.D
 Acq On : 20 Mar 2018 11:17 am
 Sample : A1UG_1.0
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 20 11:55:40 2018

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.81	83	167583	1.00	ppb	100
47) cis-1,3-dichloropropene	14.61	75	93357	1.01	ppb	97
48) trans-1,3-dichloropropene	15.36	75	68940	1.05	ppb	99
49) 1,1,2-trichloroethane	15.69	97	86788	1.02	ppb	100
51) Toluene	15.46	92	101756	1.02	ppb	96
52) Methyl Isobutyl Ketone	14.52	43	113254	1.02	ppb	91
53) Dibromochloromethane	16.43	129	149871	0.99	ppb	100
54) Methyl Butyl Ketone	15.86	43	90343	0.94	ppb	91
55) 1,2-dibromoethane	16.69	107	119858	1.05	ppb	98
56) Tetrachloroethylene	16.52	164	81284	0.99	ppb	96
57) Chlorobenzene	17.53	112	155802	1.03	ppb	96
58) Ethylbenzene	17.80	91	210770	1.03	ppb	100
59) m&p-xylene	18.02	91	401899	2.25	ppb	99
60) Nonane	18.40	43	141260	1.10	ppb	85
61) Styrene	18.47	104	161496	1.12	ppb	98
62) Bromoform	18.60	173	141586	0.99	ppb	99
63) o-xylene	18.51	91	249068	1.14	ppb	98
64) Cumene	19.10	105	246097	1.07	ppb	100
66) 1,1,2,2-tetrachloroethane	18.97	83	202974	1.03	ppb	98
67) Propylbenzene	19.69	120	67342	1.07	ppb	87
68) 2-Chlorotoluene	19.73	126	83655	1.12	ppb	96
69) 4-ethyltoluene	19.86	105	290689	1.13	ppb	99
70) 1,3,5-trimethylbenzene	19.93	105	260246	1.14	ppb	99
71) 1,2,4-trimethylbenzene	20.42	105	189132	1.07	ppb	100
72) 1,3-dichlorobenzene	20.75	146	165920	1.11	ppb	99
73) benzyl chloride	20.83	91	128831	1.07	ppb	97
74) 1,4-dichlorobenzene	20.90	146	163618	1.13	ppb	99
75) 1,2,3-trimethylbenzene	20.95	105	220114	1.13	ppb	100
76) 1,2-dichlorobenzene	21.26	146	165072	1.13	ppb	98
77) 1,2,4-trichlorobenzene	23.38	180	50494	1.11	ppb	99
78) Naphthalene	23.60	128	90976	1.05	ppb	96
79) Hexachloro-1,3-butadiene	23.72	225	128567	1.08	ppb	98

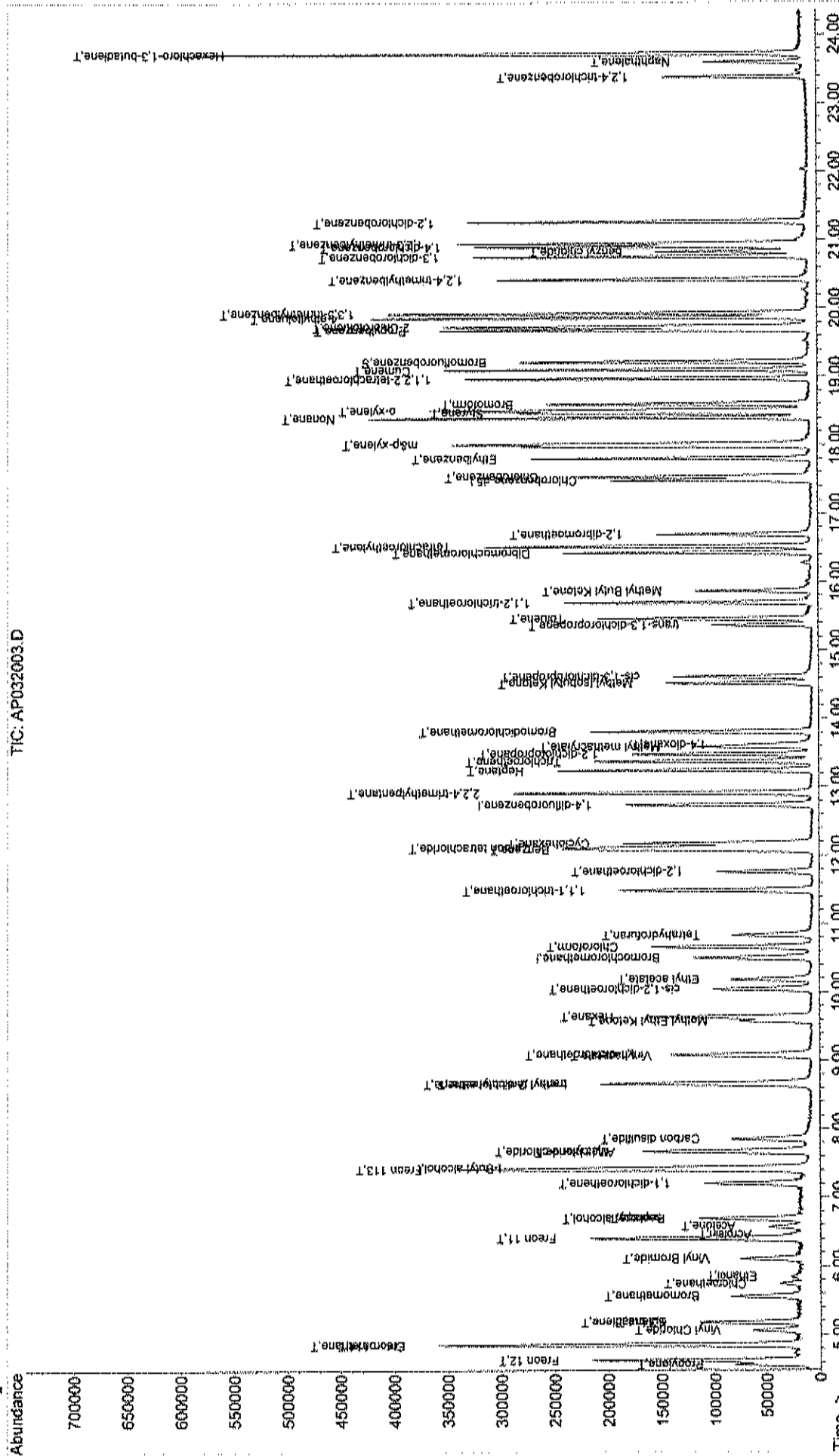
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP032003.D A318_1UG.M Wed Mar 28 07:36:52 2018 MSD1

Data File : C:\HPCHEM\1\DATA\AP032003.D
 Acq On : 20 Mar 2018 11:17 am
 Sample : ALUG 1.0
 Misc : A318_IUG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 20 11:56 2018

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 28 07:31:53 2018
 Response via : Initial Calibration



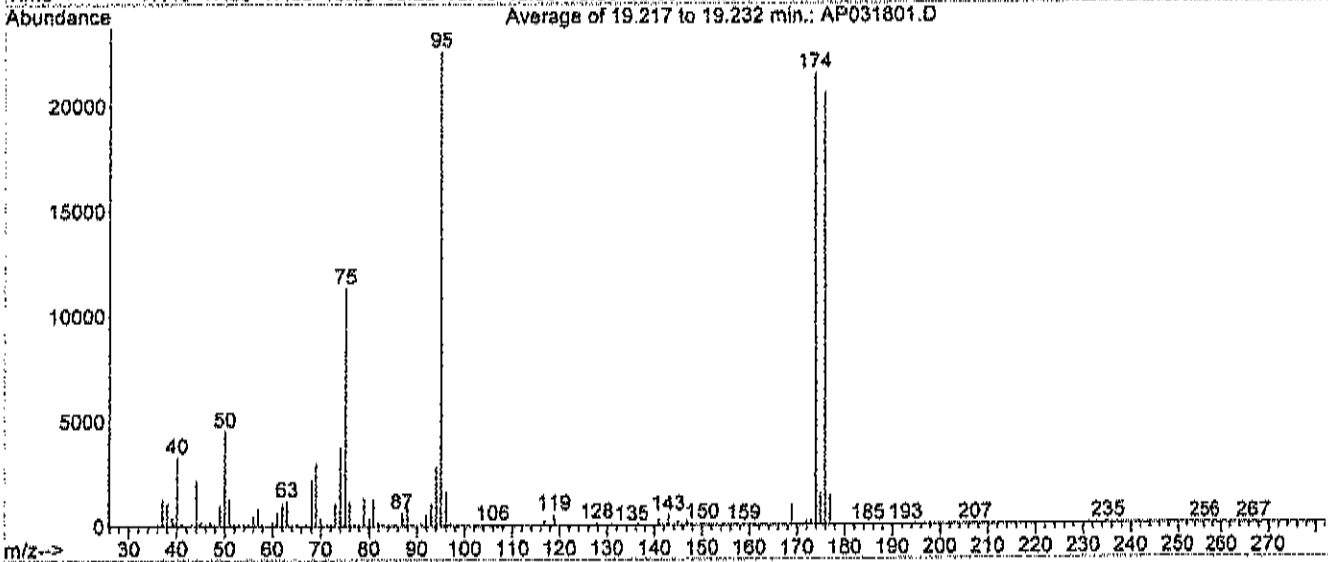
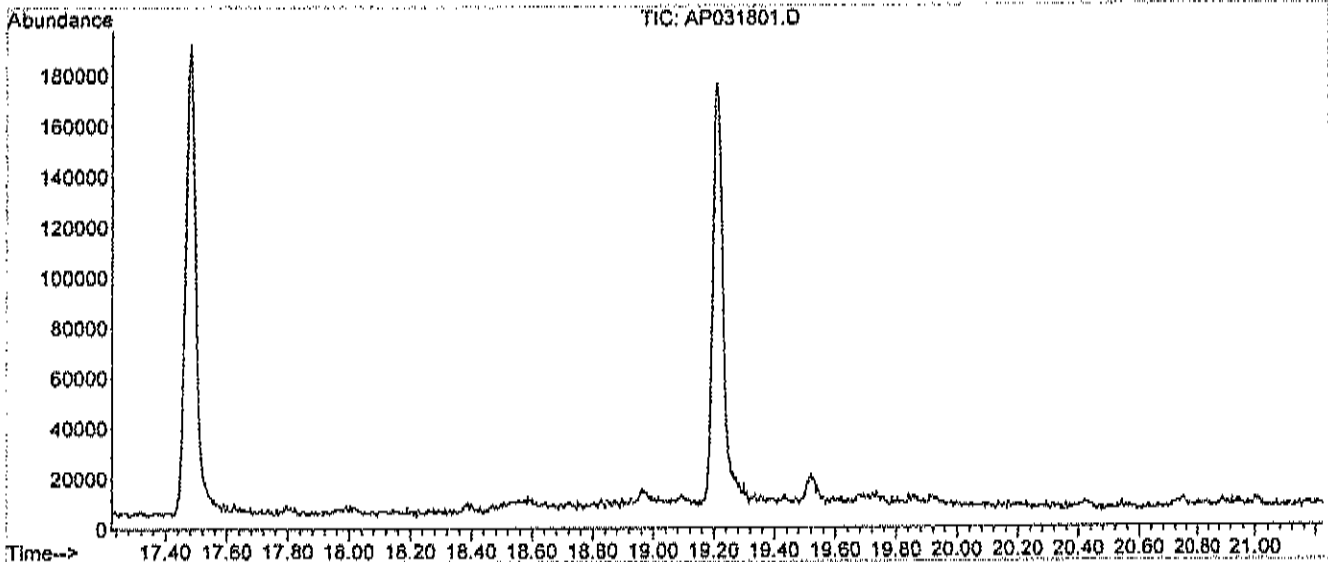
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AP031801.D Vial: 1
 Acq On : 18 Mar 2018 2:19 pm Operator: RJP
 Sample : BFB1UG Inst : MSD #1
 Misc : A301_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration

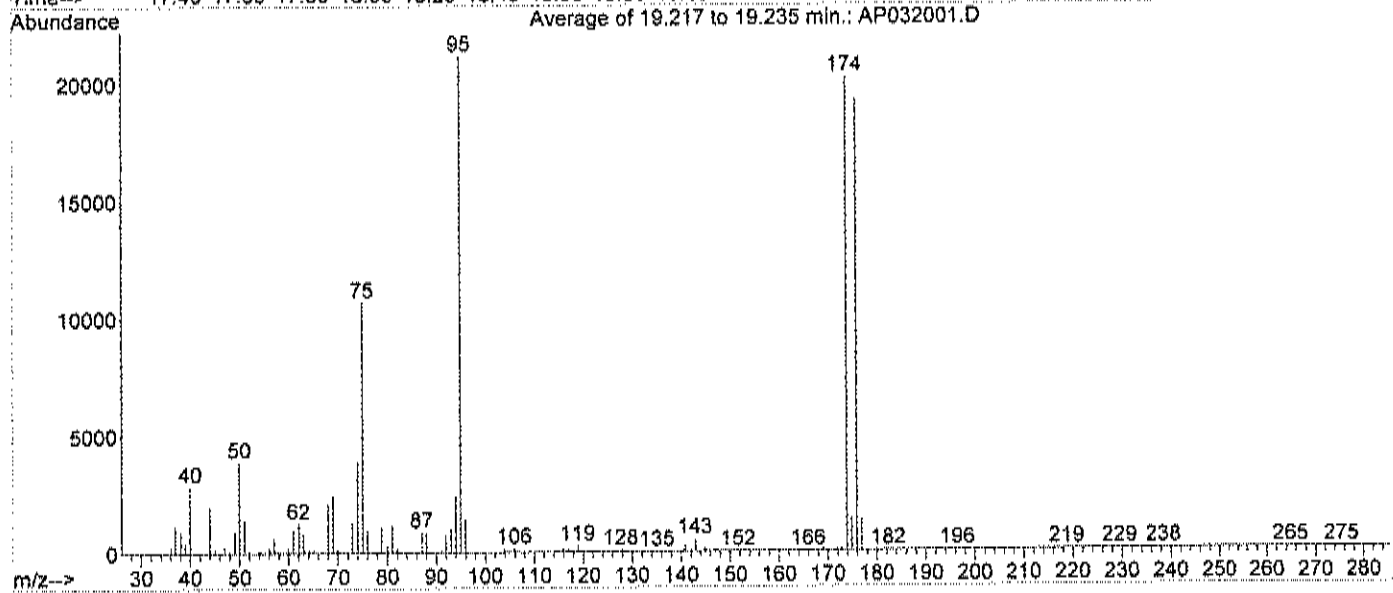
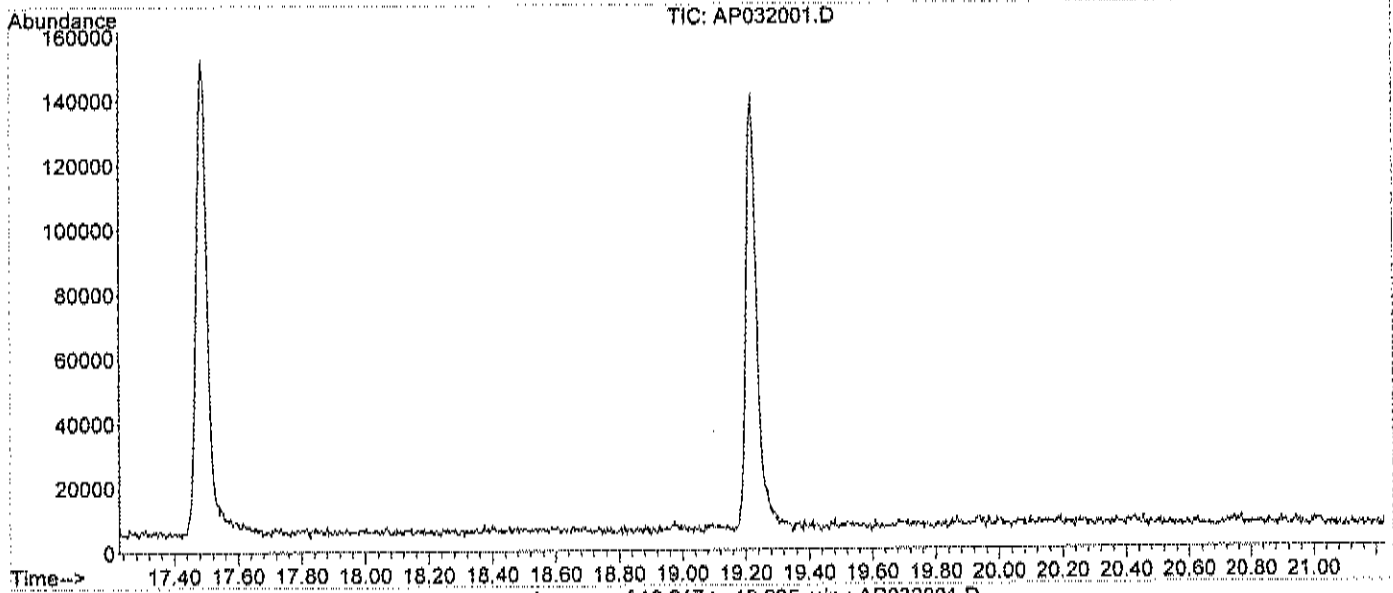


Spectrum Information: Average of 19.217 to 19.232 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.1	4531	PASS
75	95	30	66	50.2	11337	PASS
95	95	100	100	100.0	22590	PASS
96	95	5	9	7.1	1611	PASS
173	174	0.00	2	1.2	250	PASS
174	95	50	120	95.3	21518	PASS
175	174	4	9	6.9	1495	PASS
176	174	95	101	95.8	20611	PASS
177	176	5	9	7.1	1465	PASS

BFB

Data File : C:\HPCHEM\1\DATA\AP032001.D Vial: 1
 Acq On : 20 Mar 2018 9:48 am Operator: RJP
 Sample : BFB1UG Inst : MSD #1
 Misc : A318_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 19.217 to 19.235 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.4	3888	PASS
75	95	30	66	50.5	10696	PASS
95	95	100	100	100.0	21167	PASS
96	95	5	9	6.8	1447	PASS
173	174	0.00	2	0.7	138	PASS
174	95	50	120	95.4	20195	PASS
175	174	4	9	6.9	1396	PASS
176	174	95	101	95.3	19241	PASS
177	176	5	9	6.7	1286	PASS

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA



Date: 28-Mar-18

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1803045

Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: AMBTUG-032018	SampType: MBLK	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408
Client ID: ZZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155421

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	< 0.040	0.040									
Chloroethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.040	0.040									
trans-1,2-Dichloroethene	< 0.15	0.15									
Trichloroethene	< 0.030	0.030									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected below quantitation limit
- S Spike Recovery outside accepted recovery limits
- E Estimated Value above quantitation range
- ND Not Detected at the Limit of Detection
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032005.D
 Acq On : 20 Mar 2018 12:53 pm
 Sample : AMB1UG-032018
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 20 14:20:58 2018

Vial: 5
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.50	128	42656	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.74	114	173156	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	111783	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene 19.22 95 56724mⁿ 0.74 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 74.00%

Target Compounds

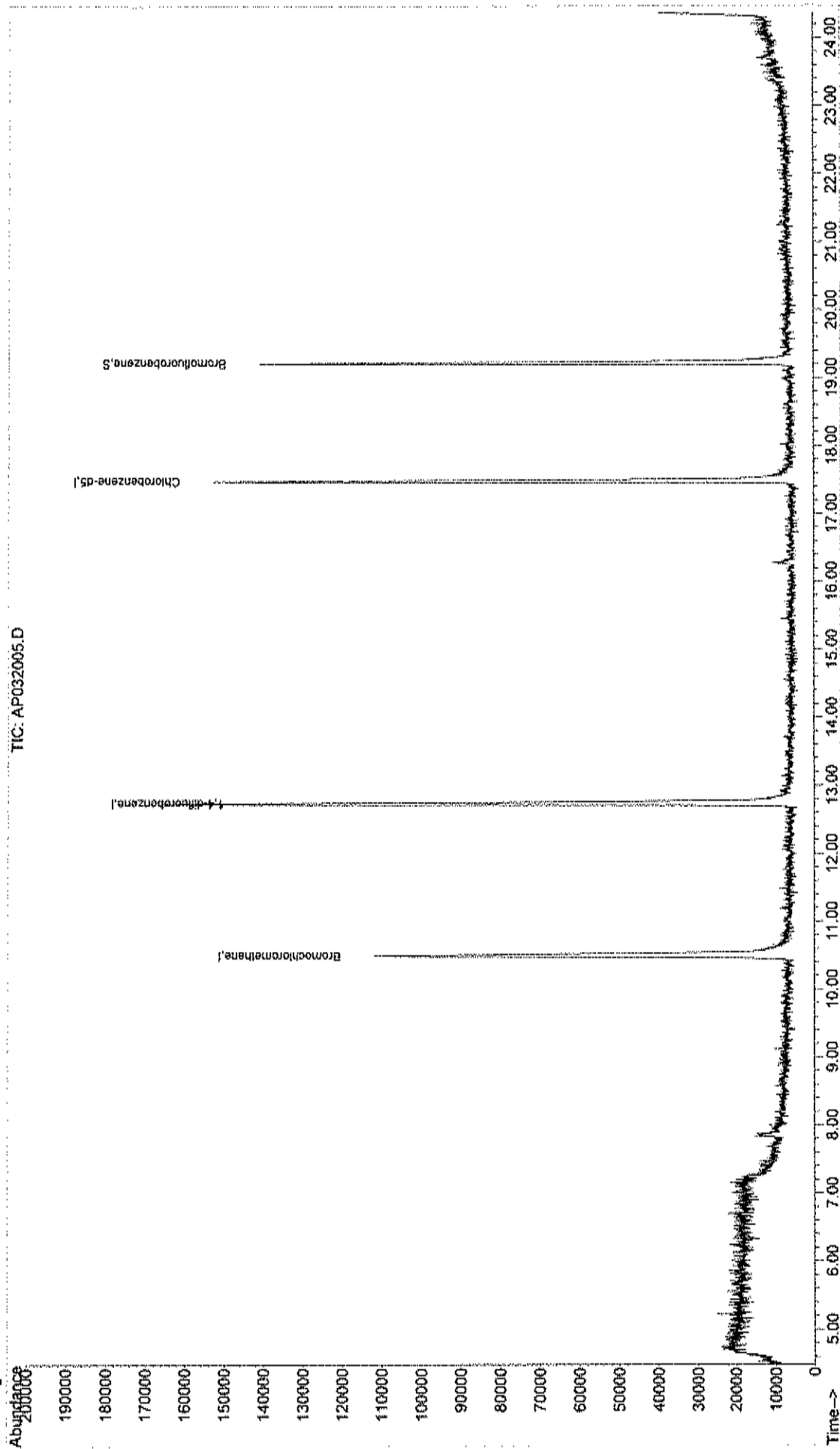
Qvalue

Data File : C:\HPCHEM\1\DATA\AP032005.D
Acq On : 20 Mar 2018 12:53 pm
Sample : AMB1UG-032018
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 9:41 2018

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



Date: 28-Mar-18



ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.
 Work Order: C1803045
 Project: 691 St Paul St.
 TestCode: 0.20_NYS

Sample ID: C1803045-011A	MS	SampType: MS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408					
Client ID: 691-AI-11	MS/MSD	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155437					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130				
Chloroethane	0.9000	0.15	1	0	90.0	70	130				
cis-1,2-Dichloroethene	1.130	0.040	1	0.18	95.0	70	130				
trans-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130				
Trichloroethene	1.110	0.030	1	0.14	97.0	70	130				
Vinyl chloride	0.8300	0.040	1	0	83.0	70	130				

Sample ID: C1803045-011A	MS	SampType: MSD	TestCode: 0.20_NYS	Units: pptV	Prep Date:	RunNo: 13408					
Client ID: 691-AI-11	MS/MSD	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155438					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	0.7300	0.040	1	0	73.0	70	130	0.73	0	30	
Chloroethane	0.8200	0.15	1	0	82.0	70	130	0.9	9.30	30	
cis-1,2-Dichloroethene	1.060	0.040	1	0.18	88.0	70	130	1.13	6.39	30	
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
Trichloroethene	1.060	0.030	1	0.14	92.0	70	130	1.11	4.61	30	
Vinyl chloride	0.8200	0.040	1	0	82.0	70	130	0.83	1.21	30	

Qualifiers: J Results reported are not blank corrected
 S Analyte detected below quantitation limit
 E Spike Recovery outside accepted recovery limits
 ND Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AP032018.D
 Acq On : 20 Mar 2018 10:48 pm
 Sample : C1803045-011A MS
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:42 2018

Vial: 18
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	47978	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	185659	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	154700	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	113993	1.07	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	107.00%

Target Compounds

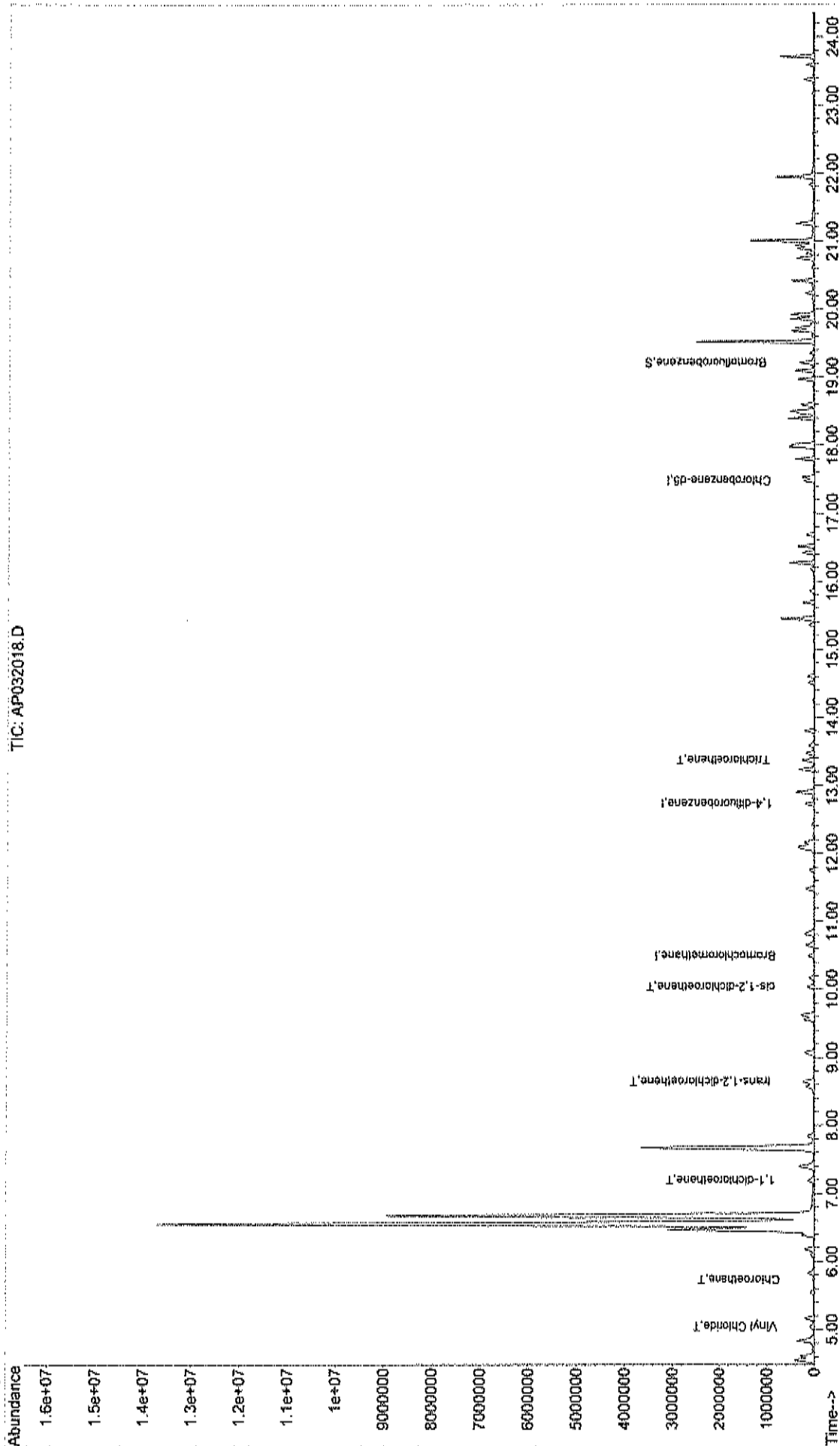
						Qvalue
6) Vinyl Chloride	5.04	62	53588	0.83	ppb	99
10) Chloroethane	5.73	64	22533	0.90	ppb	94
18) 1,1-dichloroethene	7.19	96	59994	0.73	ppb	96
24) trans-1,2-dichloroethene	8.64	61	95618	1.01	ppb	92
29) cis-1,2-dichloroethene	10.04	61	111117	1.13	ppb	91
44) Trichloroethene	13.37	130	101078	1.11	ppb	94

Data File : C:\HPCHEM\1\DATA\AP032018.D
Acq On : 20 Mar 2018 10:48 pm
Sample : C1803045-011A MS
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:11 2018

Vial: 18
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



TIC: AP032018.D

Data File : C:\HPCHEM\1\DATA\AP032019.D
 Acq On : 20 Mar 2018 11:35 pm
 Sample : C1803045-011A MSD
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:43 2018

Vial: 19
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RBS

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.49	128	49533	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	191428	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	152131	1.00	ppb	0.00

System Monitoring Compounds

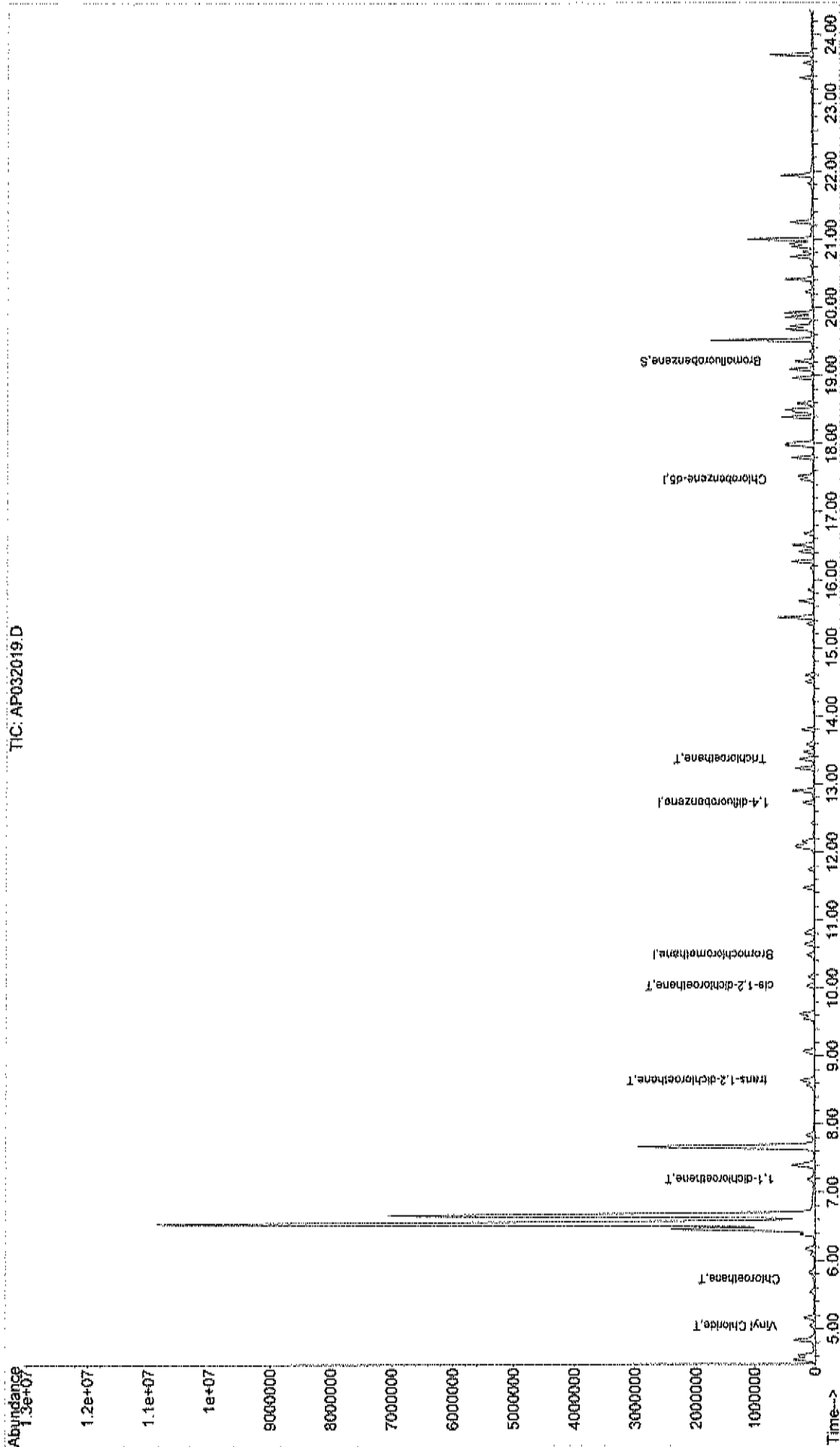
65) Bromofluorobenzene	19.21	95	115019	1.10	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	110.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
6) Vinyl Chloride	5.05	62	54714	0.82	ppb	99
10) Chloroethane	5.73	64	21178	0.82	ppb	96
18) 1,1-dichloroethene	7.19	96	62076	0.73	ppb	93
24) trans-1,2-dichloroethene	8.64	61	95555	0.98	ppb	93
29) cis-1,2-dichloroethene	10.03	61	107704	1.06	ppb	90
44) Trichloroethene	13.37	130	99095	1.06	ppb	94

Data File : C:\HPCHEM\1\DATA\AP032019.D
Acq On : 20 Mar 2018 11:35 pm
Sample : C1803045-011A MSD
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 14:12 2018
Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



TIC: AP032019.D

Date: 28-Mar-18

CEN TEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: LaBella Associates, P.C.

Work Order: C1803045

Project: 691 St Paul St.

TestCode: 0.20_NYS

Sample ID: ALCS1UG-032018	SampType: LCS	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408
Client ID: ZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/20/2018	SeqNo: 155422

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7600	0.040	1	0	76.0	70	130				
Chloroethane	0.9600	0.15	1	0	96.0	70	130				
cis-1,2-Dichloroethene	0.9500	0.040	1	0	95.0	70	130				
trans-1,2-Dichloroethene	1.020	0.15	1	0	102	70	130				
Trichloroethene	0.9500	0.030	1	0	95.0	70	130				
Vinyl chloride	0.9600	0.040	1	0	90.0	70	130				

Sample ID: ALCS1UGD-032018	SampType: LCSD	TestCode: 0.20_NYS	Units: ppbV	Prep Date:	RunNo: 13408
Client ID: ZZZZ	Batch ID: R13408	TestNo: TO-15		Analysis Date: 3/21/2018	SeqNo: 155423

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.7900	0.040	1	0	79.0	70	130	0.76	3.87	30	
Chloroethane	0.9600	0.15	1	0	96.0	70	130	0.96	0	30	
cis-1,2-Dichloroethene	1.000	0.040	1	0	100	70	130	0.95	5.13	30	
trans-1,2-Dichloroethene	1.060	0.15	1	0	106	70	130	1.02	3.85	30	
Trichloroethene	1.000	0.030	1	0	100	70	130	0.95	5.13	30	
Vinyl chloride	0.9100	0.040	1	0	91.0	70	130	0.9	1.10	30	

Qualifiers: . Results reported are not blank corrected
 J Analyte detected below quantitation limit
 S Spike Recovery outside accepted recovery limits
 E Estimated Value above quantitation range
 ND Not Detected at the Limit of Detection
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

Data File : C:\HPCHEM\1\DATA\AP032004.D

Vial: 4

Acq On : 20 Mar 2018 12:16 pm

Operator: RJP

Sample : ALCS1UG-032018

Inst : MSD #1

Misc : A318_1UG

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Mar 20 13:24:52 2018

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)

Title : TO-15 VOA Standards for 5 point calibration

Last Update : Mon Mar 19 10:19:13 2018

Response via : Initial Calibration

DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.49	128	45642	1.00	ppb	0.00
35) 1,4-difluorobenzene	12.73	114	184633	1.00	ppb	0.00
50) Chlorobenzene-d5	17.48	117	137362	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.22	95	110475	1.17	ppb	0.00
Spiked Amount	1.000	Range	70 - 130	Recovery	=	117.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.56	41	58720	0.99	ppb	94
3) Freon 12	4.62	85	276267	1.04	ppb	99
4) Chloromethane	4.84	50	60646	0.92	ppb	99
5) Freon 114	4.84	85	215281	0.96	ppb	98
6) Vinyl Chloride	5.05	62	55495	0.90	ppb	99
7) Butane	5.17	43	65101	0.91	ppb	98
8) 1,3-butadiene	5.17	39	44572	0.95	ppb	97
9) Bromomethane	5.55	94	70747	0.99	ppb	99
10) Chloroethane	5.74	64	22791	0.96	ppb	# 79
11) Ethanol	5.83	45	13841m	0.89	ppb	
12) Acrolein	6.45	56	12875	0.86	ppb	97
13) Vinyl Bromide	6.11	106	63578	0.96	ppb	98
14) Freon 11	6.40	101	260630	0.95	ppb	99
15) Acetone	6.56	58	15840	0.92	ppb	92
16) Pentane	6.69	42	36940	0.93	ppb	98
17) Isopropyl alcohol	6.68	45	48130	0.75	ppb	91
18) 1,1-dichloroethene	7.20	96	59204	0.76	ppb	94
19) Freon 113	7.40	101	188764	1.11	ppb	91
20) t-Butyl alcohol	7.43	59	109803	0.96	ppb	93
21) Methylene chloride	7.68	84	68168	0.98	ppb	# 80
22) Allyl chloride	7.65	41	78204	0.94	ppb	87
23) Carbon disulfide	7.84	76	157845	0.98	ppb	98
24) trans-1,2-dichloroethene	8.64	61	91719	1.02	ppb	88
25) methyl tert-butyl ether	8.66	73	144447	0.97	ppb	85
26) 1,1-dichloroethane	9.08	63	141662	0.97	ppb	99
27) Vinyl acetate	9.06	43	126320	0.96	ppb	95
28) Methyl Ethyl Ketone	9.57	72	27170	0.92	ppb	# 100
29) cis-1,2-dichloroethene	10.04	61	89185	0.95	ppb	92
30) Hexane	9.63	57	87517	0.96	ppb	97
31) Ethyl acetate	10.18	43	127823	0.93	ppb	98
32) Chloroform	10.66	83	169712	0.99	ppb	99
33) Tetrahydrofuran	10.83	42	61636	0.95	ppb	82
34) 1,2-dichloroethane	11.76	62	105358	0.98	ppb	97
36) 1,1,1-trichloroethane	11.49	97	156837	0.97	ppb	99
37) Cyclohexane	12.17	56	84763	1.00	ppb	86
38) Carbon tetrachloride	12.11	117	167132	0.88	ppb	100
39) Benzene	12.08	78	195183	1.00	ppb	98
40) Methyl methacrylate	13.59	41	63751	0.91	ppb	# 87
41) 1,4-dioxane	13.62	88	30472	0.83	ppb	81
42) 2,2,4-trimethylpentane	12.91	57	282237	1.00	ppb	97
43) Heptane	13.24	43	95589	0.99	ppb	88
44) Trichloroethene	13.37	130	86072	0.95	ppb	95
45) 1,2-dichloropropane	13.48	63	79156	0.97	ppb	99

(#)= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AP032004.D
 Acq On : 20 Mar 2018 12:16 pm
 Sample : ALCS1UG-032018
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 20 13:24:52 2018

Vial: 4
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

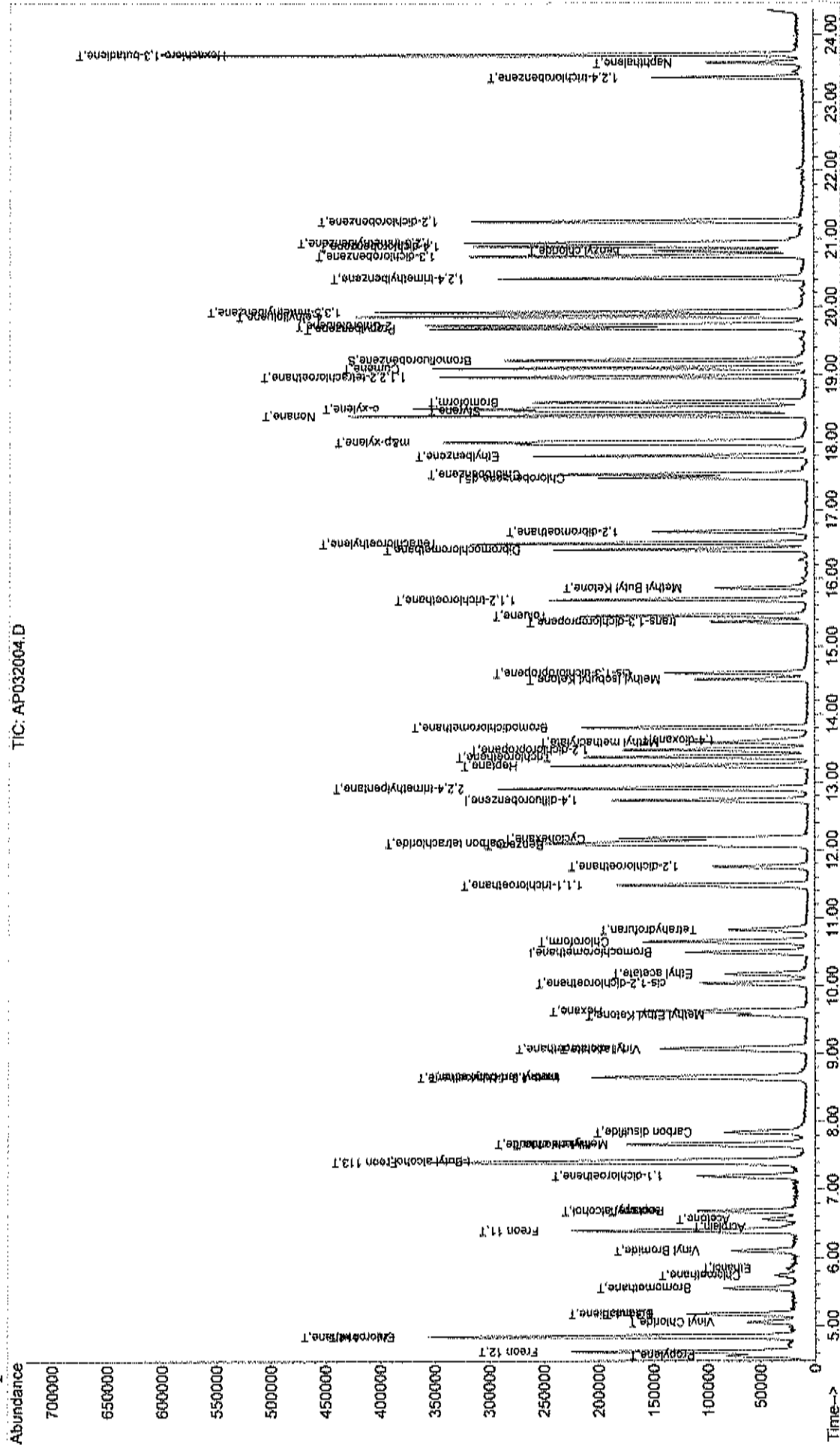
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	169604	0.99	ppb	98
47) cis-1,3-dichloropropene	14.61	75	93357	0.99	ppb	98
48) trans-1,3-dichloropropene	15.36	75	67855	1.01	ppb	98
49) 1,1,2-trichloroethane	15.69	97	86891	1.00	ppb	98
51) Toluene	15.45	92	102285	1.00	ppb	99
52) Methyl Isobutyl Ketone	14.52	43	87536	0.77	ppb	90
53) Dibromochloromethane	16.42	129	147548	0.95	ppb	99
54) Methyl Butyl Ketone	15.86	43	72710	0.74	ppb	89
55) 1,2-dibromoethane	16.69	107	118812	1.02	ppb	99
56) Tetrachloroethylene	16.51	164	83151	1.00	ppb	100
57) Chlorobenzene	17.53	112	153617	1.00	ppb	93
58) Ethylbenzene	17.80	91	209584	1.00	ppb	99
59) m&p-xylene	18.01	91	402706	2.21	ppb	98
60) Nonane	18.40	43	142172	1.08	ppb	84
61) Styrene	18.47	104	154980	1.05	ppb	99
62) Bromoform	18.60	173	141171	0.97	ppb	99
63) o-xylene	18.50	91	244983	1.10	ppb	100
64) Cumene	19.10	105	242498	1.03	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	200159	1.00	ppb	99
67) Propylbenzene	19.68	120	65561	1.02	ppb	81
68) 2-Chlorotoluene	19.73	126	84612	1.11	ppb	99
69) 4-ethyltoluene	19.86	105	284250	1.08	ppb	99
70) 1,3,5-trimethylbenzene	19.93	105	254994	1.10	ppb	98
71) 1,2,4-trimethylbenzene	20.42	105	183587	1.02	ppb	100
72) 1,3-dichlorobenzene	20.75	146	166954	1.09	ppb	99
73) benzyl chloride	20.82	91	123479	1.00	ppb	96
74) 1,4-dichlorobenzene	20.90	146	159993	1.09	ppb	98
75) 1,2,3-trimethylbenzene	20.95	105	215668	1.08	ppb	100
76) 1,2-dichlorobenzene	21.26	146	160801	1.07	ppb	99
77) 1,2,4-trichlorobenzene	23.38	180	53188	1.14	ppb	97
78) Naphthalene	23.59	128	83741	0.94	ppb	98
79) Hexachloro-1,3-butadiene	23.71	225	122441	1.01	ppb	98

Data File : C:\HPCHEM\1\DATA\AP032004.D
Acq On : 20 Mar 2018 12:16 pm
Sample : ALCS1UG-032018
Misc : A318_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 9:41 2018

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



TIC: AP032004.D

Data File : C:\HPCHEM\1\DATA\AP032025.D
 Acq On : 21 Mar 2018 3:40 am
 Sample : ALCS1UGD-032018
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:49 2018

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.48	128	44474	1.00	ppb	-0.01
35) 1,4-difluorobenzene	12.73	114	178734	1.00	ppb	0.00
50) Chlorobenzene-d5	17.47	117	141780	1.00	ppb	0.00

System Monitoring Compounds

65) Bromofluorobenzene	19.21	95	110828	1.13	ppb	0.00
Spiked Amount	1.000	Range 70 - 130	Recovery	=	113.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.56	41	62487	1.08	ppb	92
3) Freon 12	4.61	85	288461	1.12	ppb	99
4) Chloromethane	4.83	50	61710	0.96	ppb	100
5) Freon 114	4.84	85	215822	0.99	ppb	99
6) Vinyl Chloride	5.05	62	54395	0.91	ppb	98
7) Butane	5.17	43	66679	0.96	ppb	98
8) 1,3-butadiene	5.16	39	42046	0.92	ppb	93
9) Bromomethane	5.55	94	65661	0.95	ppb	98
10) Chloroethane	5.73	64	22372	0.96	ppb	# 66
11) Ethanol	5.84	45	15279m	1.01	ppb	
12) Acrolein	6.45	56	14351	0.98	ppb	94
13) Vinyl Bromide	6.09	106	62085	0.96	ppb	97
14) Freon 11	6.39	101	260534	0.98	ppb	99
15) Acetone	6.56	58	19764m	1.17	ppb	
16) Pentane	6.67	42	38373	1.00	ppb	97
17) Isopropyl alcohol	6.67	45	79883m	1.28	ppb	
18) 1,1-dichloroethene	7.19	96	59933	0.79	ppb	94
19) Freon 113	7.40	101	162488	0.98	ppb	97
20) t-Butyl alcohol	7.43	59	116617	1.04	ppb	96
21) Methylene chloride	7.66	84	70107	1.04	ppb	# 83
22) Allyl chloride	7.64	41	80992	1.00	ppb	88
23) Carbon disulfide	7.84	76	160976	1.02	ppb	97
24) trans-1,2-dichloroethene	8.64	61	92891	1.06	ppb	88
25) methyl tert-butyl ether	8.65	73	153207	1.06	ppb	87
26) 1,1-dichloroethane	9.07	63	143122	1.01	ppb	100
27) Vinyl acetate	9.05	43	129947	1.02	ppb	93
28) Methyl Ethyl Ketone	9.56	72	31057	1.08	ppb	# 100
29) cis-1,2-dichloroethene	10.03	61	91069	1.00	ppb	90
30) Hexane	9.63	57	91629	1.03	ppb	98
31) Ethyl acetate	10.16	43	144827	1.08	ppb	93
32) Chloroform	10.64	83	174129	1.04	ppb	100
33) Tetrahydrofuran	10.81	42	63288	1.01	ppb	85
34) 1,2-dichloroethane	11.75	62	107602	1.03	ppb	100
36) 1,1,1-trichloroethane	11.48	97	161708	1.04	ppb	99
37) Cyclohexane	12.17	56	85582	1.04	ppb	88
38) Carbon tetrachloride	12.11	117	167598	0.91	ppb	99
39) Benzene	12.07	78	198709	1.05	ppb	98
40) Methyl methacrylate	13.58	41	71376	1.05	ppb	# 87
41) 1,4-dioxane	13.61	88	42280	1.19	ppb	88
42) 2,2,4-trimethylpentane	12.90	57	287572	1.06	ppb	96
43) Heptane	13.23	43	98431	1.05	ppb	88
44) Trichloroethene	13.36	130	87055	1.00	ppb	93
45) 1,2-dichloropropane	13.47	63	83238	1.05	ppb	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\AP032025.D
 Acq On : 21 Mar 2018 3:40 am
 Sample : ALCS1UGD-032018
 Misc : A318_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 21 07:34:49 2018

Vial: 25
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A318_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VCA Standards for 5 point calibration
 Last Update : Mon Mar 19 10:19:13 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) Bromodichloromethane	13.80	83	168418	1.01	ppb	98
47) cis-1,3-dichloropropene	14.60	75	94474	1.03	ppb	98
48) trans-1,3-dichloropropene	15.36	75	64312	0.99	ppb	95
49) 1,1,2-trichloroethane	15.69	97	90570	1.07	ppb	99
51) Toluene	15.44	92	109791	1.04	ppb	97
52) Methyl Isobutyl Ketone	14.51	43	114458	0.98	ppb	90
53) Dibromochloromethane	16.42	129	149812	0.94	ppb	100
54) Methyl Butyl Ketone	15.85	43	76879m	0.76	ppb	
55) 1,2-dibromoethane	16.69	107	123106	1.02	ppb	98
56) Tetrachloroethylene	16.51	164	87984	1.02	ppb	98
57) Chlorobenzene	17.53	112	168770	1.06	ppb	96
58) Ethylbenzene	17.79	91	234319	1.08	ppb	98
59) m&p-xylene	18.01	91	423241	2.25	ppb	99
60) Nonane	18.39	43	146542	1.08	ppb	85
61) Styrene	18.47	104	166029	1.09	ppb	97
62) Bromoform	18.59	173	138056	0.92	ppb	100
63) o-xylene	18.50	91	253376	1.10	ppb	98
64) Cumene	19.09	105	289801	1.19	ppb	99
66) 1,1,2,2-tetrachloroethane	18.97	83	216651	1.05	ppb	99
67) Propylbenzene	19.68	120	74213	1.12	ppb	93
68) 2-Chlorotoluene	19.73	126	89232	1.13	ppb	92
69) 4-ethyltoluene	19.86	105	299311	1.10	ppb	98
70) 1,3,5-trimethylbenzene	19.92	105	272597	1.14	ppb	99
71) 1,2,4-trimethylbenzene	20.42	105	208599	1.12	ppb	98
72) 1,3-dichlorobenzene	20.75	146	174871	1.11	ppb	99
73) benzyl chloride	20.82	91	130412	1.03	ppb	99
74) 1,4-dichlorobenzene	20.89	146	170513	1.12	ppb	99
75) 1,2,3-trimethylbenzene	20.94	105	234826	1.14	ppb	99
76) 1,2-dichlorobenzene	21.25	146	172501	1.12	ppb	99
77) 1,2,4-trichlorobenzene	23.37	180	54941	1.14	ppb	99
78) Naphthalene	23.58	128	105500	1.15	ppb	96
79) Hexachloro-1,3-butadiene	23.71	225	137959	1.10	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 AP032025.D A318_1UG.M Wed Mar 28 07:35:32 2018 MSD1

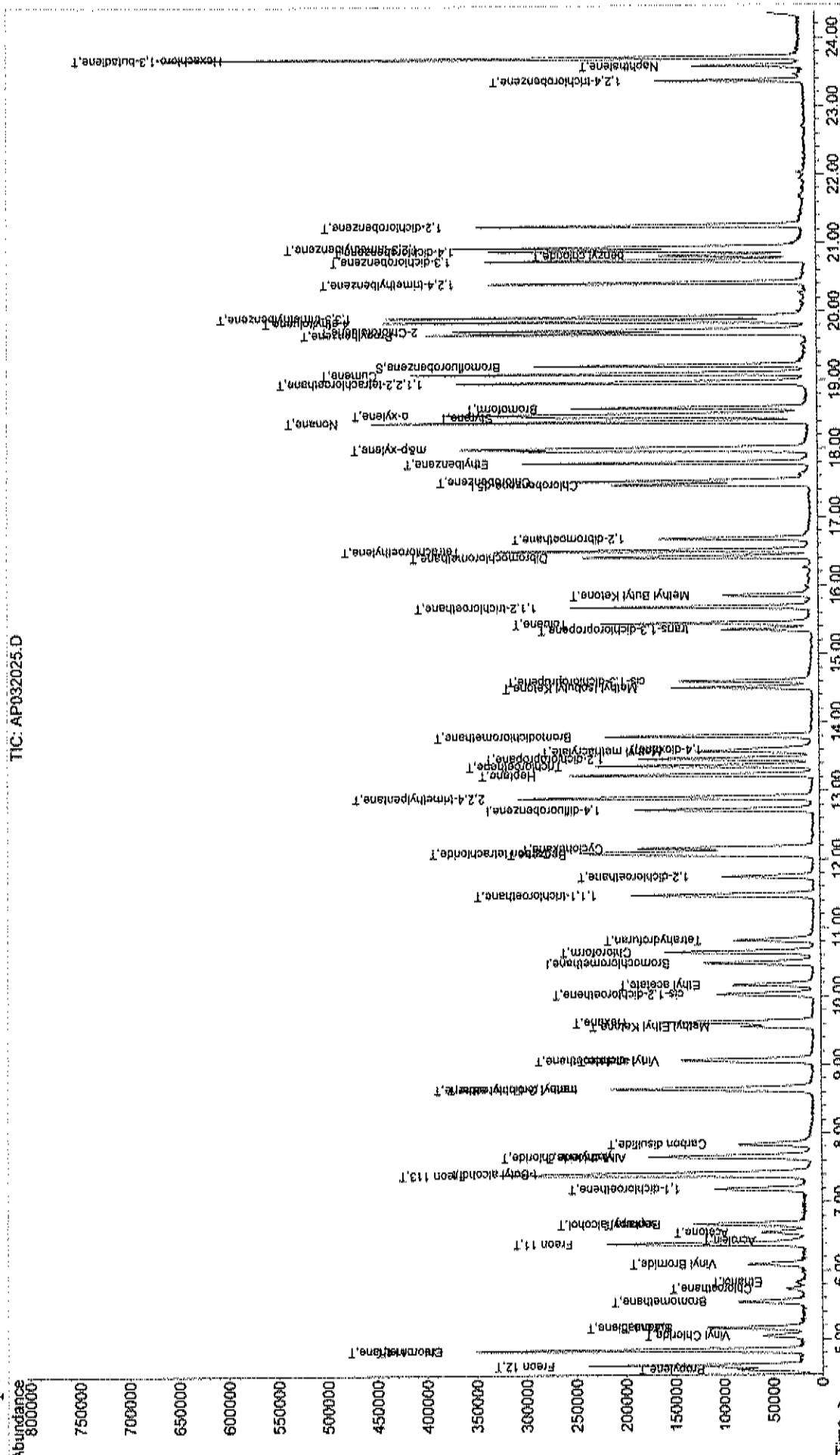
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AP032025.D
Acq On : 21 Mar 2018 3:40 am
Sample : AICSIUGD-032018
Misc : A318_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 21 9:42 2018

Vial: 25
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A318_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:31:52 2018
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Injection Log

Directory: C:\HPCHEM\1\DATA

 Instrument # 1
 Internal Standard Stock # A2449
 Standard Stock # A2450
 LCS Stock # A2451
 Method Ref: EPA TO-157 Jan. 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Time
276	1	Ap031801.d	1.	BFB1UG	A301_1UG	18 Mar 2018 14:19
277	2	Ap031802.d	1.	A1UG	A318_1UG	18 Mar 2018 16:24
278	3	Ap031803.d	1.	A1UG	A318_1UG	18 Mar 2018 17:04
279	4	Ap031804.d	1.	A1UG_2.0	A318_1UG	18 Mar 2018 17:47
280	5	Ap031805.d	1.	A1UG_1.50	A318_1UG	18 Mar 2018 18:28
281	6	Ap031806.d	1.	A1UG_1.25	A318_1UG	18 Mar 2018 19:09
282	7	Ap031807.d	1.	A1UG_1.0	A318_1UG	18 Mar 2018 19:48
283	8	Ap031808.d	1.	A1UG_0.75	A318_1UG	18 Mar 2018 20:27
284	9	Ap031809.d	1.	A1UG_0.50	A318_1UG	18 Mar 2018 21:05
285	10	Ap031810.d	1.	A1UG_0.30	A318_1UG	18 Mar 2018 21:42
286	11	Ap031811.d	1.	A1UG_0.15	A318_1UG	18 Mar 2018 22:19
287	12	Ap031812.d	1.	A1UG_0.10	A318_1UG	18 Mar 2018 22:56
288	13	Ap031813.d	1.	A1UG_0.04	A318_1UG	18 Mar 2018 23:32
289	14	Ap031814.d	1.	A1UG_0.03	A318_1UG	19 Mar 2018 00:09
290		Ap031815.d	1.	No MS or GC data present		
291	1	Ap031901.d	1.	BFB1UG	A318_1UG	19 Mar 2018 09:15
292	2	Ap031902.d	1.	A1UG	A318_1UG	19 Mar 2018 10:06
293	3	Ap031903.d	1.	A1UG_1.0	A318_1UG	19 Mar 2018 10:45
294	4	Ap031904.d	1.	ALCS1UG-031918	A318_1UG	19 Mar 2018 11:51
295	5	Ap031905.d	1.	AMB1UG-031918	A318_1UG	19 Mar 2018 12:27
296	1	Ap031906.d	1.	C1803040	A318_1UG -007A VA...	19 Mar 2018 13:55
297	2	Ap031907.d	1.	C1803040-001A	A318_1UG	19 Mar 2018 14:38
298	3	Ap031908.d	1.	C1803040-002A	A318_1UG	19 Mar 2018 15:18
299	4	Ap031909.d	1.	C1803040-003A	A318_1UG	19 Mar 2018 15:58
300	5	Ap031910.d	1.	C1803040-004A	A318_1UG	19 Mar 2018 16:38
301	6	Ap031911.d	1.	C1803040-005A	A318_1UG	19 Mar 2018 17:18
302	7	Ap031912.d	1.	C1803040-006A	A318_1UG	19 Mar 2018 17:58
303	8	Ap031913.d	1.	C1803040	A318_1UG	19 Mar 2018 18:35
304	9	Ap031914.d	1.	C1803040-001A 5x	A318_1UG	19 Mar 2018 21:38
305	10	Ap031915.d	1.	C1803040-002A 5x	A318_1UG	19 Mar 2018 22:16
306	11	Ap031916.d	1.	C1803040-003A 5x	A318_1UG	19 Mar 2018 22:53
307	12	Ap031917.d	1.	C1803040-004A 5x	A318_1UG	19 Mar 2018 23:30
308	13	Ap031918.d	1.	C1803040-005A 5x	A318_1UG	20 Mar 2018 00:07
309	14	Ap031919.d	1.	C1803040-006A 10x	A318_1UG	20 Mar 2018 00:44
310	15	Ap031920.d	1.	C1803040-006A 40x	A318_1UG	20 Mar 2018 01:20
311	16	Ap031921.d	1.	ALCS1UGD-031918	A318_1UG	20 Mar 2018 02:00
312	17	Ap031922.d	1.		A318_1UG	20 Mar 2018 08:18
313		Ap031923.d	1.	No MS or GC data present		
314	1	Ap032001.d	1.	BFB1UG	A318_1UG	20 Mar 2018 09:48
315	2	Ap032002.d	1.	A1UG	A318_1UG	20 Mar 2018 10:37
316	3	Ap032003.d	1.	A1UG_1.0	A318_1UG	20 Mar 2018 11:17
317	4	Ap032004.d	1.	ALCS1UG-032018	A318_1UG	20 Mar 2018 12:16
318	5	Ap032005.d	1.	AMB1UG-032018	A318_1UG	20 Mar 2018 12:53
319	6	Ap032006.d	1.	C1803040-007A	A318_1UG	20 Mar 2018 13:30
320	7	Ap032007.d	1.	C1803040-006A 270X	A318_1UG	20 Mar 2018 14:48
321	8	Ap032008.d	1.	C1803046-001A	A318_1UG	20 Mar 2018 15:45
322	9	Ap032009.d	1.	C1803046-002A	A318_1UG	20 Mar 2018 16:25
323	10	Ap032010.d	1.	C1803046-003A	A318_1UG	20 Mar 2018 17:05
324	11	Ap032011.d	1.	C1803046-001A 10x	A318_1UG	20 Mar 2018 18:17
325	12	Ap032012.d	1.	C1803046-001A 40x	A318_1UG	20 Mar 2018 18:54
326	13	Ap032013.d	1.	C1803046	A318_1UG -002A 10x	20 Mar 2018 19:31
327	14	Ap032014.d	1.	C1803046-002A 20x	A318_1UG	20 Mar 2018 20:08
328	15	Ap032015.d	1.	C1803046	A318_1UG -003A 10x	20 Mar 2018 20:45
329	16	Ap032016.d	1.	C1803046-003A 20x	A318_1UG	20 Mar 2018 21:22
330	17	Ap032017.d	1.	C1803045-011A	A318_1UG	20 Mar 2018 22:02

Injection Log

Directory: C:\HPCHEM1\DATA

 Instrument # 1
 Internal Standard Stock # A2449
 Standard Stock # A2750
 LCS Stock # A2751
 Method Ref: EPA TO-157 Jan. 1999

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Timestamp
76	1	Ap031801.d	1.	BFB1UG	A301_1UG	18 Mar 2018 14:19
77	2	Ap031802.d	1.	A1UG	A318_1UG	18 Mar 2018 16:24
78	3	Ap031803.d	1.	A1UG	A318_1UG	18 Mar 2018 17:04
79	4	Ap031804.d	1.	A1UG_2.0	A318_1UG	18 Mar 2018 17:47
80	5	Ap031805.d	1.	A1UG_1.50	A318_1UG	18 Mar 2018 18:28
81	6	Ap031806.d	1.	A1UG_1.25	A318_1UG	18 Mar 2018 19:09
82	7	Ap031807.d	1.	A1UG_1.0	A318_1UG	18 Mar 2018 19:48
83	8	Ap031808.d	1.	A1UG_0.75	A318_1UG	18 Mar 2018 20:27
84	9	Ap031809.d	1.	A1UG_0.50	A318_1UG	18 Mar 2018 21:05
85	10	Ap031810.d	1.	A1UG_0.30	A318_1UG	18 Mar 2018 21:42
86	11	Ap031811.d	1.	A1UG_0.15	A318_1UG	18 Mar 2018 22:19
87	12	Ap031812.d	1.	A1UG_0.10	A318_1UG	18 Mar 2018 22:56
88	13	Ap031813.d	1.	A1UG_0.04	A318_1UG	18 Mar 2018 23:32
89	14	Ap031814.d	1.	A1UG_0.03	A318_1UG	19 Mar 2018 00:09
90		Ap031815.d	1.	No MS or GC data present		
91	1	Ap031901.d	1.	BFB1UG	A318_1UG	19 Mar 2018 09:15
92	2	Ap031902.d	1.	A1UG	A318_1UG	19 Mar 2018 10:06
93	3	Ap031903.d	1.	A1UG_1.0	A318_1UG	19 Mar 2018 10:45
94	4	Ap031904.d	1.	ALCS1UG-031918	A318_1UG	19 Mar 2018 11:51
95	5	Ap031905.d	1.	AMB1UG-031918	A318_1UG	19 Mar 2018 12:27
96	1	Ap031906.d	1.	C1803040	A318_1UG -007A VA...	19 Mar 2018 13:55
97	2	Ap031907.d	1.	C1803040-001A	A318_1UG	19 Mar 2018 14:38
98	3	Ap031908.d	1.	C1803040-002A	A318_1UG	19 Mar 2018 15:18
99	4	Ap031909.d	1.	C1803040-003A	A318_1UG	19 Mar 2018 15:58
100	5	Ap031910.d	1.	C1803040-004A	A318_1UG	19 Mar 2018 16:38
101	6	Ap031911.d	1.	C1803040-005A	A318_1UG	19 Mar 2018 17:18
102	7	Ap031912.d	1.	C1803040-006A	A318_1UG	19 Mar 2018 17:58
103	8	Ap031913.d	1.	C1803040	A318_1UG	19 Mar 2018 18:35
104	9	Ap031914.d	1.	C1803040-001A 5x	A318_1UG	19 Mar 2018 21:38
105	10	Ap031915.d	1.	C1803040-002A 5x	A318_1UG	19 Mar 2018 22:16
106	11	Ap031916.d	1.	C1803040-003A 5x	A318_1UG	19 Mar 2018 22:53
107	12	Ap031917.d	1.	C1803040-004A 5x	A318_1UG	19 Mar 2018 23:30
108	13	Ap031918.d	1.	C1803040-005A 5x	A318_1UG	20 Mar 2018 00:07
109	14	Ap031919.d	1.	C1803040-006A 10x	A318_1UG	20 Mar 2018 00:44
110	15	Ap031920.d	1.	C1803040-006A 40x	A318_1UG	20 Mar 2018 01:20
111	16	Ap031921.d	1.	ALCS1UGD-031918	A318_1UG	20 Mar 2018 02:00
112	17	Ap031922.d	1.		A318_1UG	20 Mar 2018 08:18
113		Ap031923.d	1.	No MS or GC data present		
114	1	Ap032001.d	1.	BFB1UG	A318_1UG	20 Mar 2018 09:48
115	2	Ap032002.d	1.	A1UG	A318_1UG	20 Mar 2018 10:37
116	3	Ap032003.d	1.	A1UG_1.0	A318_1UG	20 Mar 2018 11:17
117	4	Ap032004.d	1.	ALCS1UG-032018	A318_1UG	20 Mar 2018 12:16
118	5	Ap032005.d	1.	AMB1UG-032018	A318_1UG	20 Mar 2018 12:53
119	6	Ap032006.d	1.	C1803040-007A	A318_1UG	20 Mar 2018 13:30
120	7	Ap032007.d	1.	C1803040-006A 270X	A318_1UG	20 Mar 2018 14:48
121	8	Ap032008.d	1.	C1803046-001A	A318_1UG	20 Mar 2018 15:45
122	9	Ap032009.d	1.	C1803046-002A	A318_1UG	20 Mar 2018 16:25
123	10	Ap032010.d	1.	C1803046-003A	A318_1UG	20 Mar 2018 17:05
124	11	Ap032011.d	1.	C1803046-001A 10x	A318_1UG	20 Mar 2018 18:17
125	12	Ap032012.d	1.	C1803046-001A 40x	A318_1UG	20 Mar 2018 18:54
126	13	Ap032013.d	1.	C1803046	A318_1UG -002A 10x	20 Mar 2018 19:31
127	14	Ap032014.d	1.	C1803046-002A 20x	A318_1UG	20 Mar 2018 20:08
128	15	Ap032015.d	1.	C1803046	A318_1UG -003A 10x	20 Mar 2018 20:45
129	16	Ap032016.d	1.	C1803046-003A 20x	A318_1UG	20 Mar 2018 21:22
130	17	Ap032017.d	1.	C1803045-011A	A318_1UG	20 Mar 2018 22:02

Injection Log

 Instrument # 1
 Internal Standard Stock # A2449
 Standard Stock # A2450
 LCS Stock # A2451

Directory: C:\HPCHEM1\DATA

MetInfo EPA TO-15 / Jan. 19 affected

Line	Vial	FileName	Multiplier	SampleName	MetInfo	EPA TO-15 / Jan. 19 affected
331	18	Ap032018.d	1.	C1803045-011A MS	A318_1UG	20 Mar 2018 22:48
332	19	Ap032019.d	1.	C1803045-011A MSD	A318_1UG	20 Mar 2018 23:35
333	20	Ap032020.d	1.	C1803045-001A	A318_1UG	21 Mar 2018 00:16
334	21	Ap032021.d	1.	C1803045-002A	A318_1UG	21 Mar 2018 00:57
335	22	Ap032022.d	1.	C1803045-003A	A318_1UG	21 Mar 2018 01:38
336	23	Ap032023.d	1.	C1803045-004A	A318_1UG	21 Mar 2018 02:18
337	24	Ap032024.d	1.	C1803045-005A	A318_1UG	21 Mar 2018 03:00
338	25	Ap032025.d	1.	ALCS1UGD-032018	A318_1UG	21 Mar 2018 03:40
339	25	Ap032026.d	1.	C1803045-006A	A318_1UG	21 Mar 2018 04:21
340	26	Ap032027.d	1.	C1803045-007A	A318_1UG	21 Mar 2018 05:03
341	27	Ap032028.d	1.	C1803045-008A	A318_1UG	21 Mar 2018 05:44
342	28	Ap032029.d	1.	C1803045-009A	A318_1UG	21 Mar 2018 06:24
343	29	Ap032030.d	1.	C1803045-010A	A318_1UG	21 Mar 2018 07:06
344	30	Ap032031.d	1.	C1803045-012A	A318_1UG	21 Mar 2018 07:47
345	31	Ap032032.d	1.	C1803045-013A	A318_1UG	21 Mar 2018 08:29
346	32	Ap032033.d	1.	C1803045	A318_1UG -011A 10X	21 Mar 2018 09:06
347		Ap032034.d	1.	No MS or GC data present		
348	1	Ap032101.d	1.	BFB1UG	A318_1UG	21 Mar 2018 10:36
349	2	Ap032102.d	1.	A1UG	A318_1UG	21 Mar 2018 11:21
350	3	Ap032103.d	1.	A1UG_1.0	A318_1UG	21 Mar 2018 12:00
351	4	Ap032104.d	1.	ALCS1UG-032118	A318_1UG	21 Mar 2018 12:47
352	5	Ap032105.d	1.	AMB1UG-032118	A318_1UG	21 Mar 2018 13:23
353	6	Ap032106.d	1.	C1803053-001A	A318_1UG	21 Mar 2018 15:17
354	7	Ap032107.d	1.	C1803053-002A	A318_1UG	21 Mar 2018 15:57
355	8	Ap032108.d	1.	C1803053-001A 10X	A318_1UG	21 Mar 2018 16:38
356	1	Ap032109.d	1.	C1803052-002A	A318_1UG	21 Mar 2018 17:44
357	2	Ap032110.d	1.	C1803052-002A MS	A318_1UG	21 Mar 2018 18:30
358	3	Ap032111.d	1.	C1803052-002A MSD	A318_1UG	21 Mar 2018 19:17
359	4	Ap032112.d	1.	C1803052-001A	A318_1UG	21 Mar 2018 19:58
360	5	Ap032113.d	1.	C1803052-003A	A318_1UG	21 Mar 2018 20:38
361	6	Ap032114.d	1.	C1803052-004A	A318_1UG	21 Mar 2018 21:19
362	7	Ap032115.d	1.	C1803052-005A	A318_1UG	21 Mar 2018 21:59
363	8	Ap032116.d	1.	C1803050-002A	A318_1UG	21 Mar 2018 22:39
364	9	Ap032117.d	1.	C1803050-003A	A318_1UG	21 Mar 2018 23:20
365	10	Ap032118.d	1.	C1803050-004A	A318_1UG	22 Mar 2018 00:01
366	11	Ap032119.d	1.	C1803050-006A	A318_1UG	22 Mar 2018 00:41
367	12	Ap032120.d	1.	C1803050-007A	A318_1UG	22 Mar 2018 01:21
368	13	Ap032121.d	1.	C1803050	A318_1UG	22 Mar 2018 02:04
369	14	Ap032122.d	1.	C1803050-010A	A318_1UG	22 Mar 2018 02:44
370	15	Ap032123.d	1.	C1803050-012A	A318_1UG	22 Mar 2018 03:25
371	16	Ap032124.d	1.	C1803050-013A	A318_1UG	22 Mar 2018 04:05
372	17	Ap032125.d	1.	C1803050-014A	A318_1UG	22 Mar 2018 04:45
373	18	Ap032126.d	1.	ALCS1UGD	A318_1UG	22 Mar 2018 05:25
374	19	Ap032127.d	1.	C1803050-001A	A318_1UG	22 Mar 2018 06:05
375	20	Ap032128.d	1.	C1803050-005A	A318_1UG	22 Mar 2018 06:45
376	21	Ap032129.d	1.	C1803050-008A	A318_1UG	22 Mar 2018 07:25
377	22	Ap032130.d	1.	C1803050-011A	A318_1UG	22 Mar 2018 08:06
378	23	Ap032131.d	1.	C1803050-009A	A318_1UG	22 Mar 2018 08:46
379	24	Ap032132.d	1.	ALCS1UGD-032118	A318_1UG	22 Mar 2018 09:26
380	24	Ap032133.d	1.	C1803050-002A 5x	A318_1UG	22 Mar 2018 10:03
381		Ap032134.d	1.	No MS or GC data present		
382	1	Ap032201.d	1.	BFB1UG	A318_1UG	22 Mar 2018 11:06
383	2	Ap032202.d	1.	A1UG	A318_1UG	22 Mar 2018 11:51
384	3	Ap032203.d	1.	A1UG_1.0	A318_1UG	22 Mar 2018 12:30
385	4	Ap032204.d	1.	ALCS1UG-032218	A318_1UG	22 Mar 2018 13:14

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-2311	12/08/17	12/15/17	TO15 SULF	A0270	1ppm	1.5	30	50	ZZ	
A-2312			H2S	A0269	10ppm	↓	↓	500		
A-2313			TO15 106 IS	A2304	50ppb	0.9	45	1.0		
A-2314			STD	A2305	↓	↓	↓	↓		
A-2315			LCS	A2306	↓	↓	↓	↓		
A-2316	12/04/17	12/04/18	TO15 IS	FF-8482	LINDE	2000psig	↓	PPM	ZZ	
A-2317	12/13/17	12/12/18	STOCK TO15 STD	FF-47281	LINDE	2200psig	↓	1PPM	ZZ	
A-2318	12/18/17	12/18/18	TO15 LCS	A1807	1ppm	A1807	STD IS NOW	LCS	ZZ	
A-2319	12/16/17	12/28/17	IS	A2316	1ppm	1.5	30	50	M	
A-2320			STD	A2317	↓	↓	↓	↓		
A-2321			LCS	P2318	↓	↓	↓	↓		
A-2322			4PCA	9519	1ppm	1.5	↓	50		
A-2323			4PCA5	A2322	50ppb	3.0	↓	5		
A-2324			FORM	A0974	11.5ppm	0.20	45	50		
A-2325			SILOK	A1018/09	500ppb	3.0	30	↓		
A-2326			SULF	A0270	1ppm	1.5	↓	↓		
A-2327			H2S	A0269	10ppm	↓	↓	500		
A-2328			TO15 106 IS	A2315	50ppb	0.9	45	1.0		
A-2329			STD	A2320	↓	↓	↓	↓		
A-2330			LCS	A2321	↓	↓	↓	↓		
A-2331			M							

GC/MS Calibration Standards Logbook

Centek Laboratories, LLC

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-2430	3/6/18	3/13/18	TOS H2S	A2309 A2428	10 ppm 50 ppb	30 0.9	30	500	WD	
A-2437			TOS 106	A2428	50 ppb	0.9	45	1		
A-2438			STD	A2429						
A-2439			LCS	A2430						
A-2440	3/13/18	3/20/18	TOS IS	A2316	1 ppm	1.5	30	50	WD	
A-2441			STD	A2317						
A-2442			LCS	A2318						
A-2443			HRH	9519						
A-2444			4PCMS	A2443	50 ppb	3.0	30	5		
A-2445			FORM	A2331	11.9 ppm	0.19	45	50		
A-2446			SILX	A1088 A1089	500 ppb	3.0	30	50		
A-2447			SOLF	A0270	1 ppm	1.5	30	50		
A-2448			H2S	A0269	10 ppm	1.5	30	500		
A-2449			TOS 106	A2440	50 ppb	0.9	45	1		
A-2450			STD	A2441						
A-2451			LCS	A2442						
A-2452	3/20/18	3/27/18	TOS	A2316	1 ppm	1.5	30	50	WD	
A-2453			STD	A2317						
A-2454			LCS	A2318						
A-2455			HRH	9519						
A-2456			HRH	A2455	50 ppb	3.0	30	5		

Std #	Date Prep	Date Exp	Description	Stock #	Stock Conc	Initial Vol (psig)	Final Vol (psia)	Final Conc (ppb)	Prep by	Chkd by
A-2457	3/20/18	3/27/18	TO15 FOLM	A2331	11.9 ppm	0.19	45	50	WD	
A-2458			↓ SILOX	A1088 A1089	500 ppb	3.0	30	50		
A-2459			↓ SOLF	A0270	1 ppm	1.5	30	50		
A-2460			↓ H2S	A0269	10 ppm	1.5	30	500		
A-2461			TO15 IUG	A2452	50 ppb	0.9	45	↓		
A-2462			↓ STD	A2453	↓	↓	↓	↓		
A-2463			↓ LCS	A2454	↓	↓	↓	↓		
A-										
A-										
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GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

QC Canister Cleaning Logbook

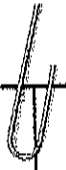
entek Laboratories, LLC

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date
1205	1.7	211	20	1/13/18	WAC01578.B	1.9 ± 0.2	+ 30 1/16/18
1196							+ 30
487							+ 30
1206							+ 30
211							+ 30
217		485					+ 30
218							+ 30
1208							+ 30
484							+ 30
485							+ 30
1203		1322					+ 30
1323							+ 30
1319							+ 30
1321							+ 30
1322							+ 30
1200		1201					+ 30
1320							+ 30
214							+ 30
210							+ 30
1201							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30
							+ 30

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date
287	1 L	287-1	20	2/23/18	WAR0222618 A	Wajm 3+0.20	+ 30 2/27/19
352							
359							
92							
284							
365		170			WAR0222618 B		
133							
161							
96							
170							
317		316			WAR0222618 C		
1179							
1318							
316							



QC Canister Cleaning Logbook

Centek Laboratories, LLC

Instrument: Entech 3100

Canister Number	Canister Size	QC Can Number	# of Cycles	Int & Date Cleaned	QC Batch Number	Detection Limits	Leak Test 24hr Int & Date
237	1L	239	30	2/27/18	WACO22818A	1.0, 0.30	+ 30 3/1/18
1195							+ 30
553							+ 30
1184							+ 30
239							+ 30
324		171			WACO22818B		+ 30
370							+ 30
131							+ 30
168							+ 30
171							+ 30
539		189			WACO22818C		+ 30
188							+ 30
886							+ 30
419							+ 30
189							+ 30
207		388			WACO22819D		+ 30
1191							+ 30
243							+ 30
226							+ 30
388							+ 30
564		1316			WACO22819E		+ 30
320							+ 30
1173							+ 30
195							+ 30
1316							+ 30

Data File : C:\HPCHEM\1\DATA2\2018JAN\AP011506.D Vial: 6
 Acq On : 15 Jan 2018 1:24 pm Operator: RJP
 Sample : WAC011517B Inst : MSD #1
 Misc : A113_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jan 15 15:52:42 2018 Quant Results File: A113_1UG.RES

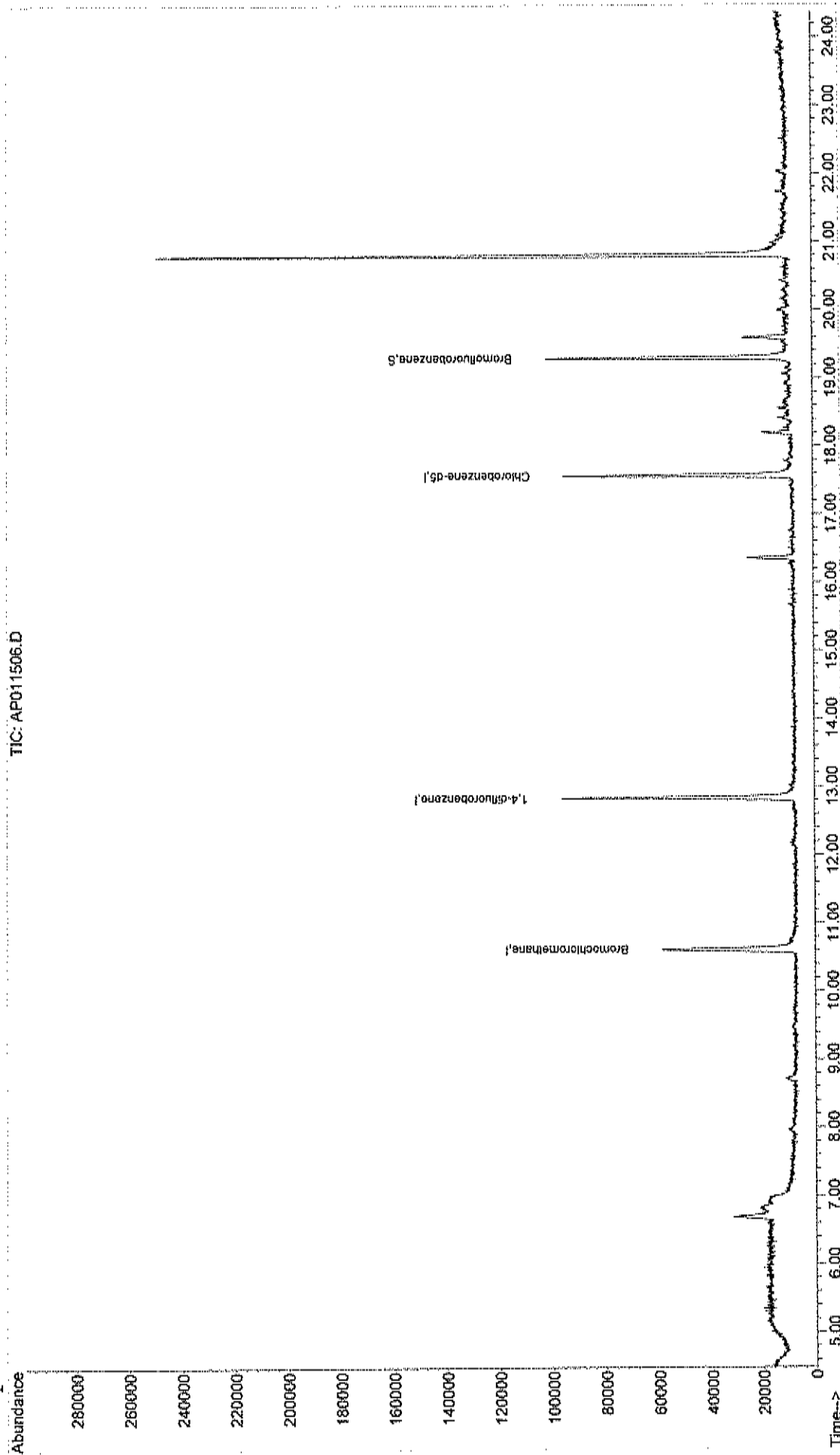
Quant Method : C:\HPCHEM\1\METHODS\A113_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Sat Jan 13 19:19:06 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.60	128	26841	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.82	114	101583	1.00	ppb	0.00
50) Chlorobenzene-d5	17.56	117	73757	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.29 95 38620 0.79 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 79.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2018JAN\AP011506.D Vial: 6
Acq On : 15 Jan 2018 1:24 pm Operator: RJP
Sample : WAC011517B Inst : MSD #1
Misc : A113_1UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 15 16:52 2018 Quant Results File: A113_1UG.RES
Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\2018JAN\AP011507.D Vial: 7
 Acq On : 15 Jan 2018 2:01 pm Operator: RJP
 Sample : WAC011517C Inst : MSD #1
 Misc : A113_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Jan 15 15:52:32 2018 Quant Results File: A113_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A113_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Sat Jan 13 19:19:06 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

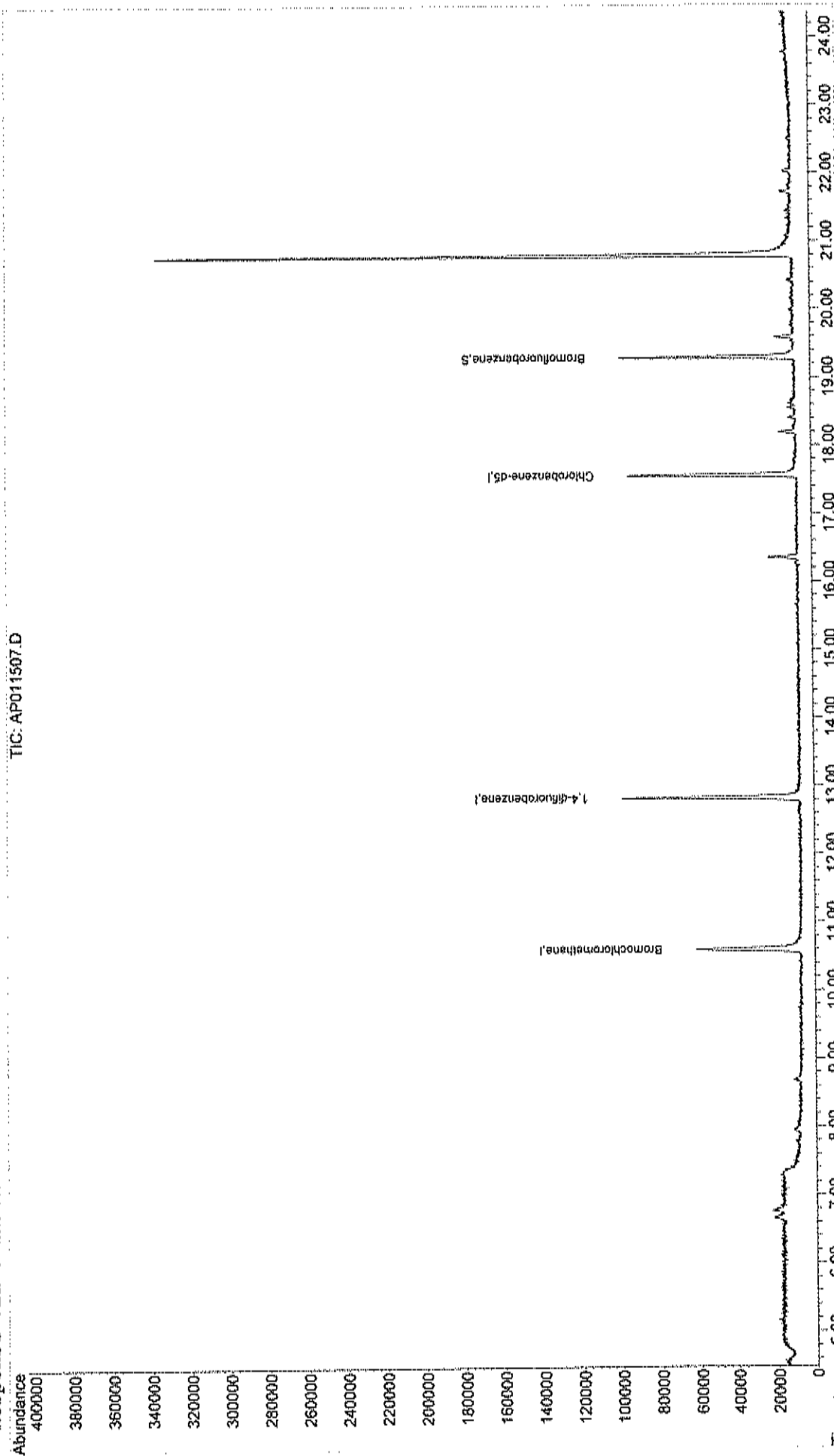
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.60	128	27870	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.83	114	102314	1.00	ppb	0.00
50) Chlorobenzene-d5	17.56	117	71806	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.29 95 37132 0.78 ppb 0.00
 Spiked Amount 1.000 Range 70 - 130 Recovery = 78.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\2018JAN\AP011507.D Vial: 7
Acq On : 15 Jan 2018 2:01 pm Operator: RJP
Sample : WAC011517C Inst : MSD #1
Misc : A113_IUG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 15 16:53 2018 Quant Results File: A113_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022605.D Vial: 1
 Acq On : 26 Feb 2018 5:38 pm Operator: RJP
 Sample : WAC022618A Inst : MSD #1
 Misc : A220_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Feb 27 07:16:41 2018 Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

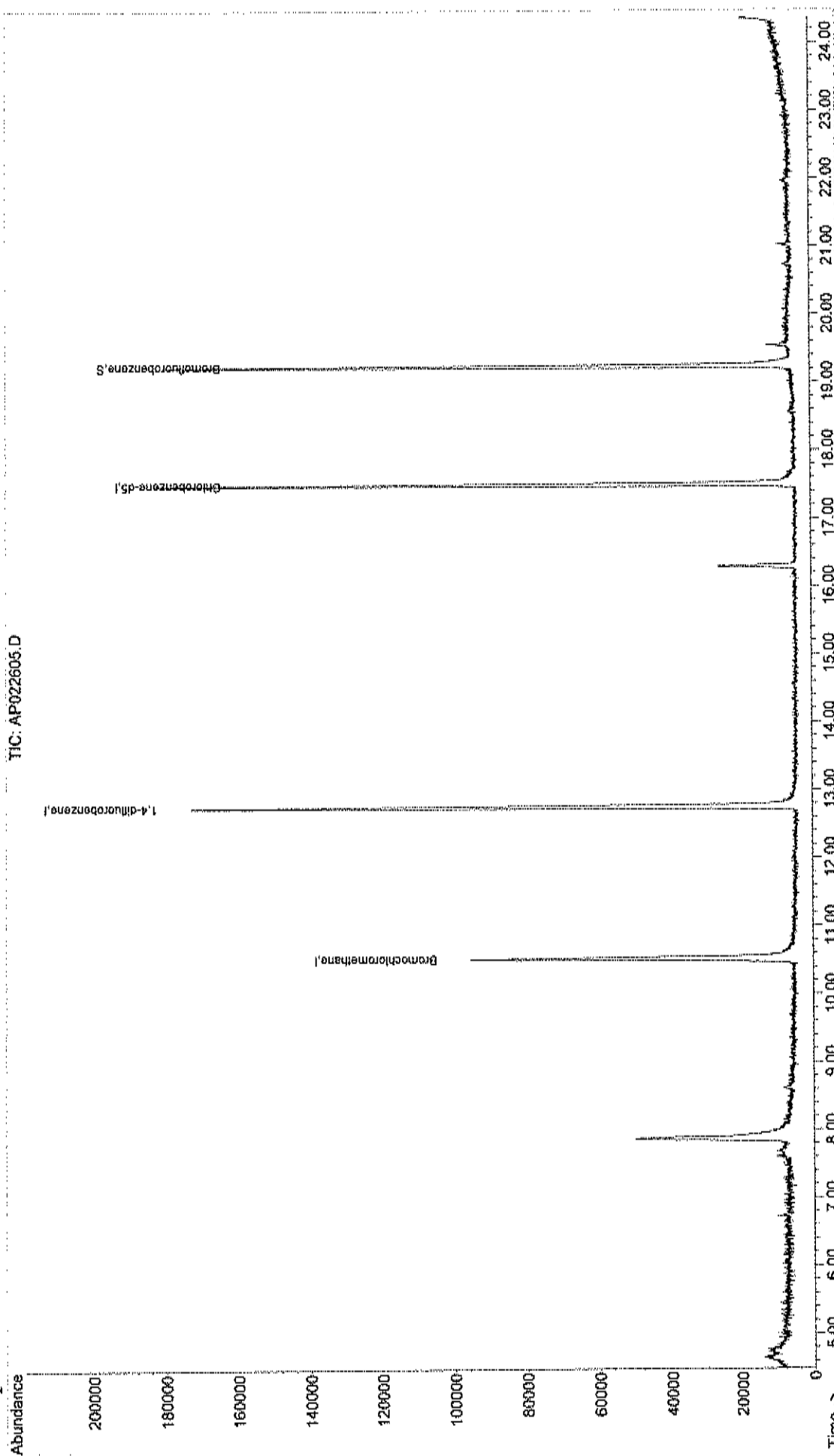
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.51	128	40685	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.75	114	184825	1.00	ppb	0.01
50) Chlorobenzene-d5	17.49	117	136534	1.00	ppb	0.00

System Monitoring Compounds
 65) Bromofluorobenzene 19.23 95 76860 0.77 ppb 0.02
 Spiked Amount 1.000 Range 70 - 130 Recovery = 77.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022605.D
Acq On : 26 Feb 2018 5:38 pm
Sample : WAC022618A
Misc : A220_IUG
MS Integration Params: RTEINT.P
Quant Time: Feb 27 8:16 2018
Quant Results File: A220_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022606.D
 Acq On : 26 Feb 2018 6:16 pm
 Sample : WAC022618B
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 27 07:16:42 2018

Vial: 2
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.51	128	40114	1.00	ppb	0.01
35) 1,4-difluorobenzene	12.76	114	175667	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	130110	1.00	ppb	0.01

System Monitoring Compounds

65) Bromofluorobenzene	19.23	95	71865	0.76	ppb	0.02
Spiked Amount	1.000	Range 70 - 130	Recovery	=	76.00%	

Target Compounds

Qvalue

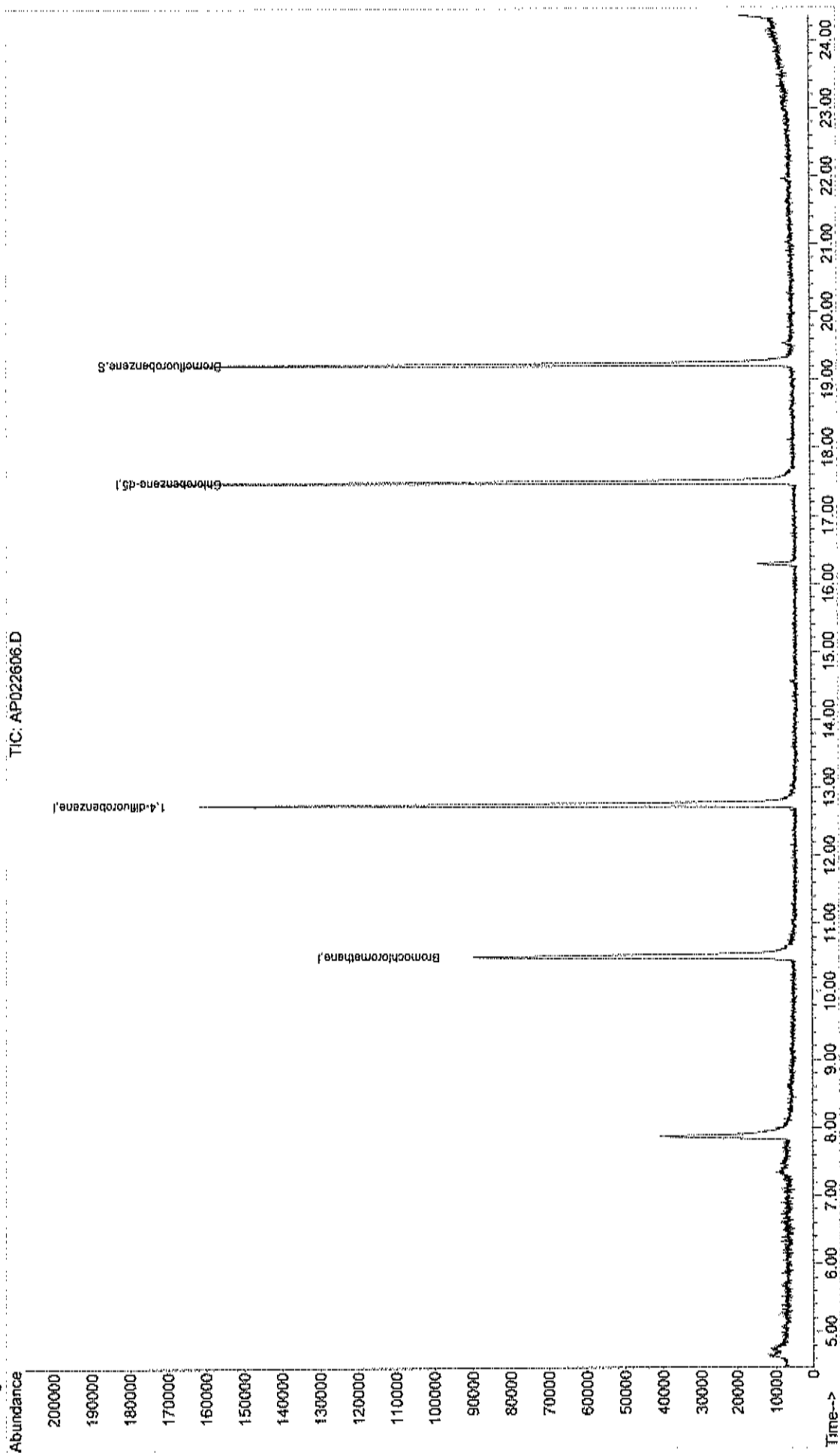
Quantitation Report (QF Reviewed)

Data File : C:\HPCHEM\1\DATA2\AP022606.D
Acq On : 26 Feb 2018 6:16 pm
Sample : WAC022618B
Misc : A220 1UG
MS Integration Params: RTEINT.P
Quant Time: Feb 27 8:16 2018

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A220_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022607.D
 Acq On : 26 Feb 2018 6:54 pm
 Sample : WAC022618C
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 27 07:16:43 2018

Vial: 3
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.52	128	38958	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.75	114	170500	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	126115	1.00	ppb	0.02

System Monitoring Compounds

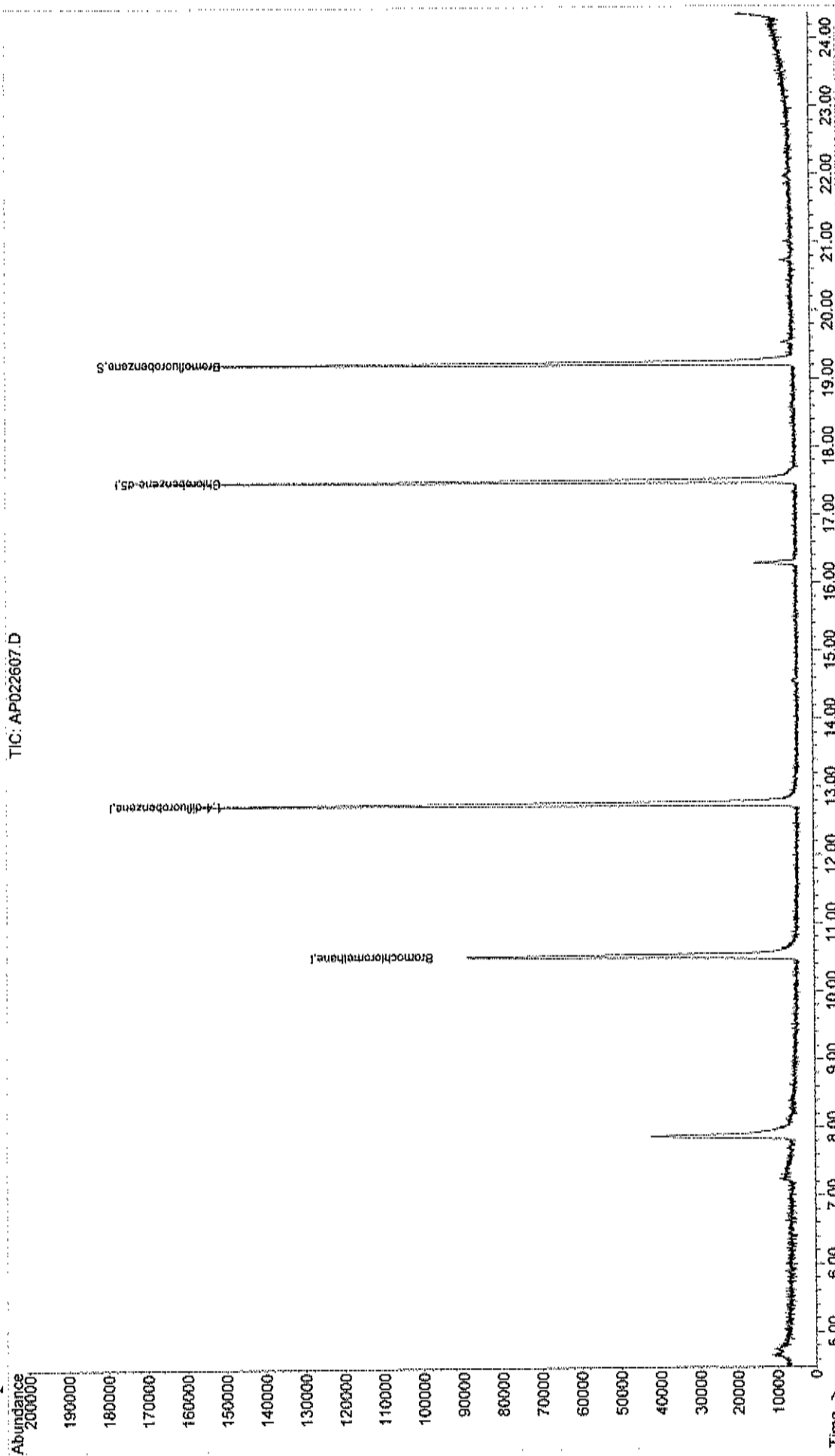
65) Bromofluorobenzene	19.23	95	70141	0.77	ppb	0.02
Spiked Amount	1.000	Range	70 - 130	Recovery	=	77.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022607.D Vial: 3
 Acq On : 26 Feb 2018 6:54 pm Operator: RJP
 Sample : WAC022618C Inst : MSD #1
 Misc : A220_1UG Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Feb 27 8:16 2018 Quant Results File: A220_1UG.REB

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Mar 28 07:43:59 2018
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022806.D
 Acq On : 28 Feb 2018 1:09 pm
 Sample : WAC022818A
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 28 14:32:25 2018

Vial: 6
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

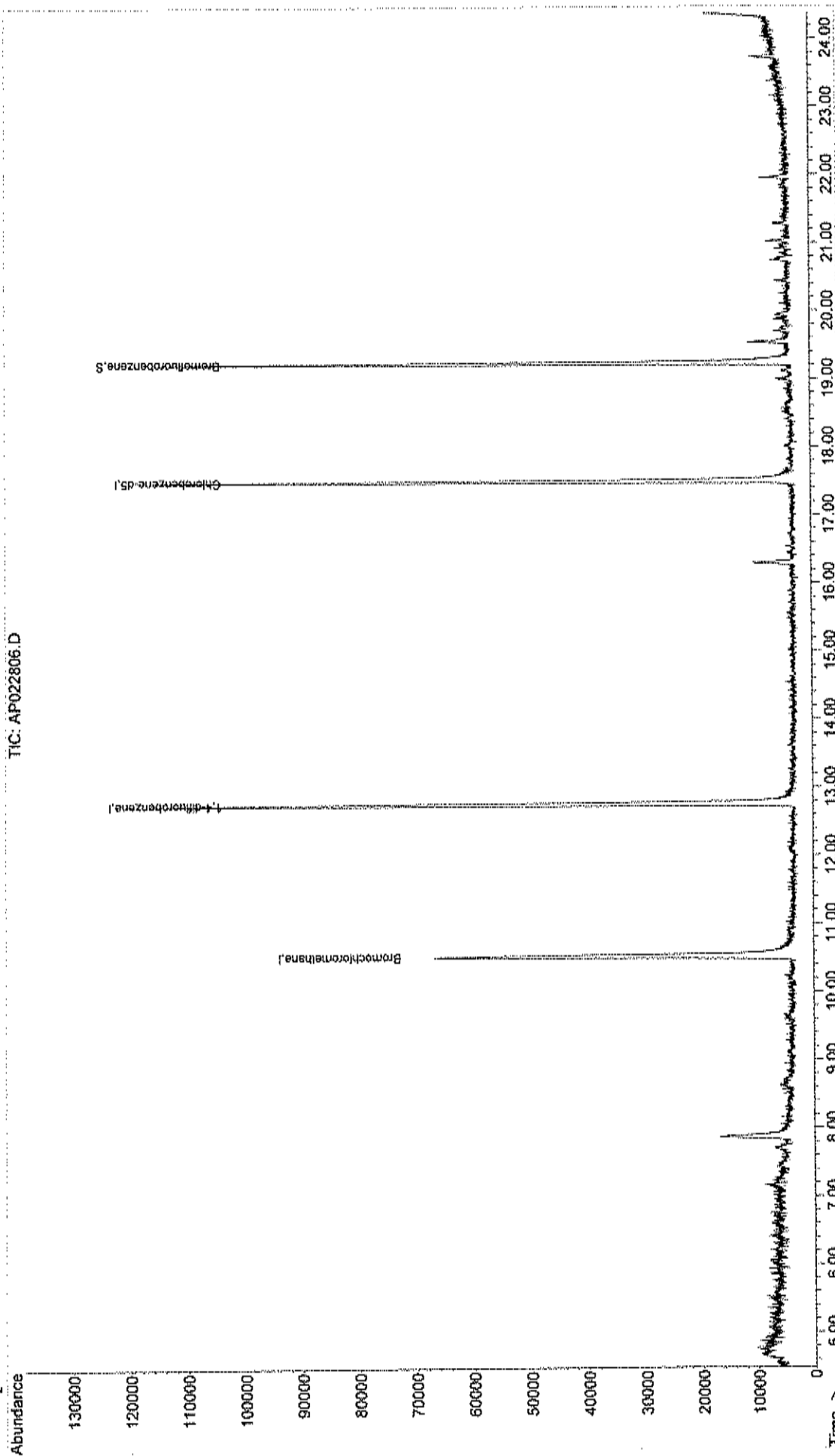
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.52	128	28384	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.76	114	123205	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	87664	1.00	ppb	0.01

System Monitoring Compounds
 65) Bromofluorobenzene 19.23 95 46318 0.73 ppb 0.02
 Spiked Amount 1.000 Range 70 - 130 Recovery = 73.00%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022806.D
Acq On : 28 Feb 2018 1:09 pm Vial: 6
Sample : WAC022818A Operator: RJP
Misc : A220_1UG Inst : MSD #1
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Feb 28 15:32 2018 Quant Results File: A220_1UG.RBS

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022807.D
 Acq On : 28 Feb 2018 1:47 pm
 Sample : WAC022818B
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Feb 28 14:32:34 2018

Vial: 7
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.52	128	27393	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.76	114	120733	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	87441	1.00	ppb	0.01

System Monitoring Compounds

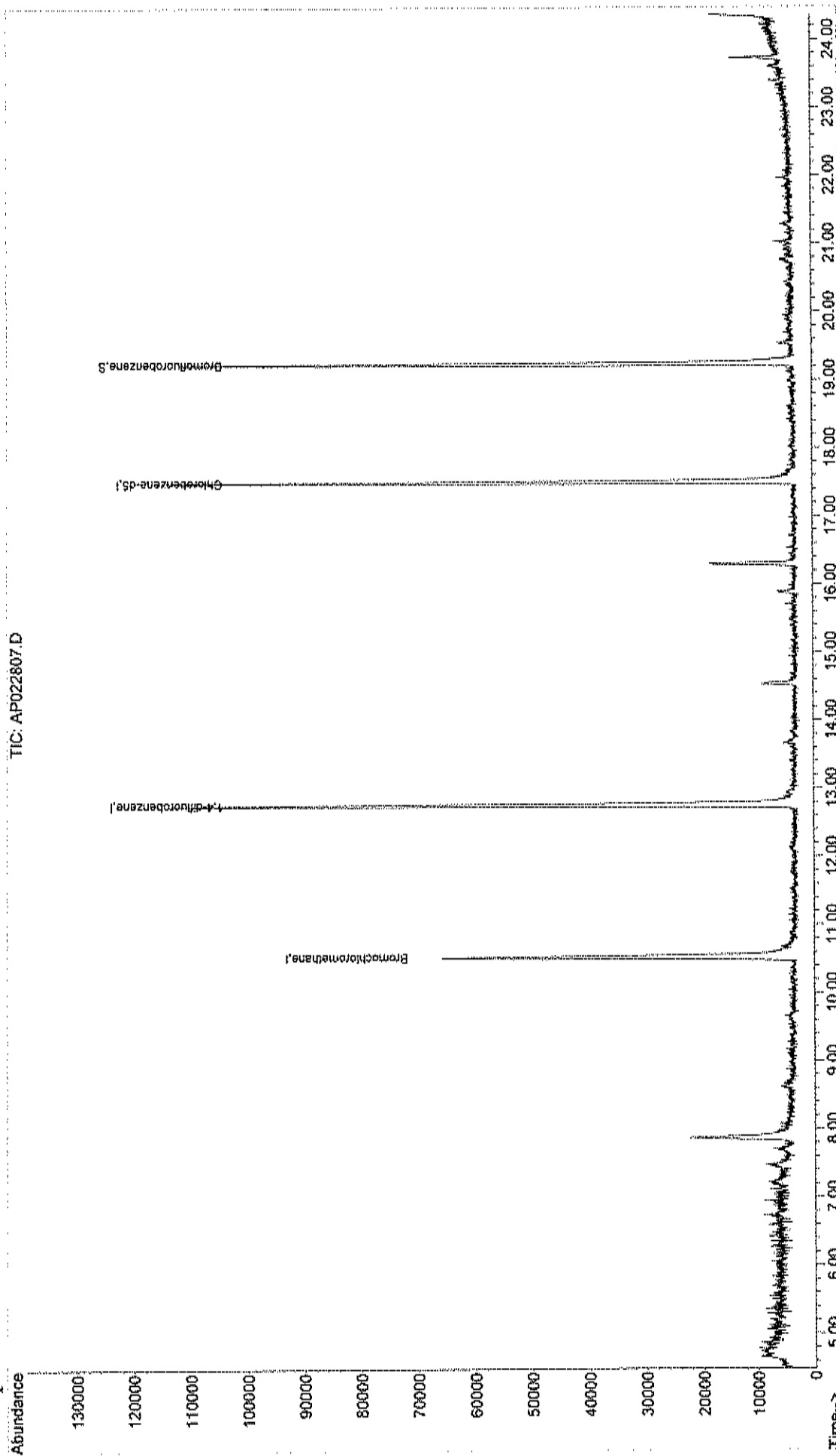
65) Bromofluorobenzene	19.23	95	46308	0.73	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	73.00%

Target Compounds

Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022807.D
Acq On : 28 Feb 2018 1:47 pm Vial: 7
Sample : WAC022818B Operator: RJP
Misc : A220_1UG Inst : MSD #1
MS Integration Params: RTEINT.P Multiplr: 1.00
Quant Time: Feb 28 15:32 2018 Quant Results File: A220_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022808.D
 Acq On : 28 Feb 2018 2:26 pm
 Sample : WAC022818C
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 01 08:53:47 2018

Vial: 8
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.52	128	25997	1.00	ppb	0.02
35) 1,4-difluorobenzene	12.76	114	110960	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	80959	1.00	ppb	0.01

System Monitoring Compounds
 65) Bromofluorobenzene 19.24 95 41665 0.71 ppb 0.02
 Spiked Amount 1.000 Range 70 - 130 Recovery = 71.00%

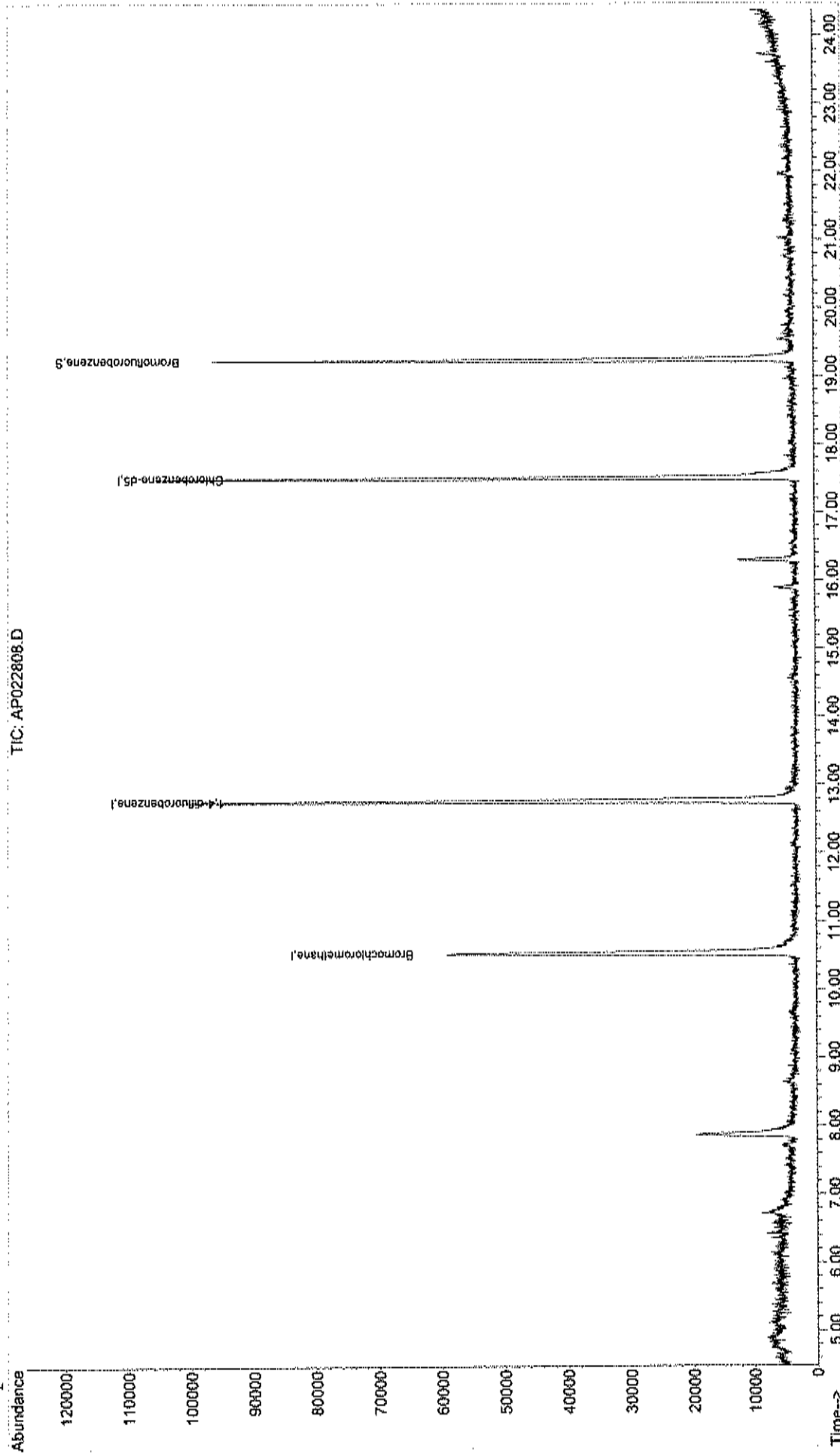
Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022808.D
Acq On : 28 Feb 2018 2:26 pm
Sample : WAC022818C
Misc : A220_1UG
MS Integration Params: RTEINT.P
Quant Time: Mar 1 9:53 2018

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A220_1UG.RES

Method : C:\HPCHEM\1\METHODS\A318_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA2\AP022809.D
 Acq On : 28 Feb 2018 3:04 pm
 Sample : WAC022818D
 Misc : A220_1UG
 MS Integration Params: RTEINT.P
 Quant Time: Mar 01 08:54:21 2018

Vial: 9
 Operator: RJP
 Inst : MSD #1
 Multiplr: 1.00

Quant Results File: A220_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A220_1UG.M (RTE Integrator)
 Title : TO-15 VOA Standards for 5 point calibration
 Last Update : Wed Feb 21 07:52:31 2018
 Response via : Initial Calibration
 DataAcq Meth : 1UG_RUN

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.53	128	27792	1.00	ppb	0.03
35) 1,4-difluorobenzene	12.76	114	115400	1.00	ppb	0.02
50) Chlorobenzene-d5	17.50	117	85708	1.00	ppb	0.01

System Monitoring Compounds

65) Bromofluorobenzene	19.23	95	43941	0.71	ppb	0.01
Spiked Amount	1.000	Range	70 - 130	Recovery	=	71.00%

Target Compounds

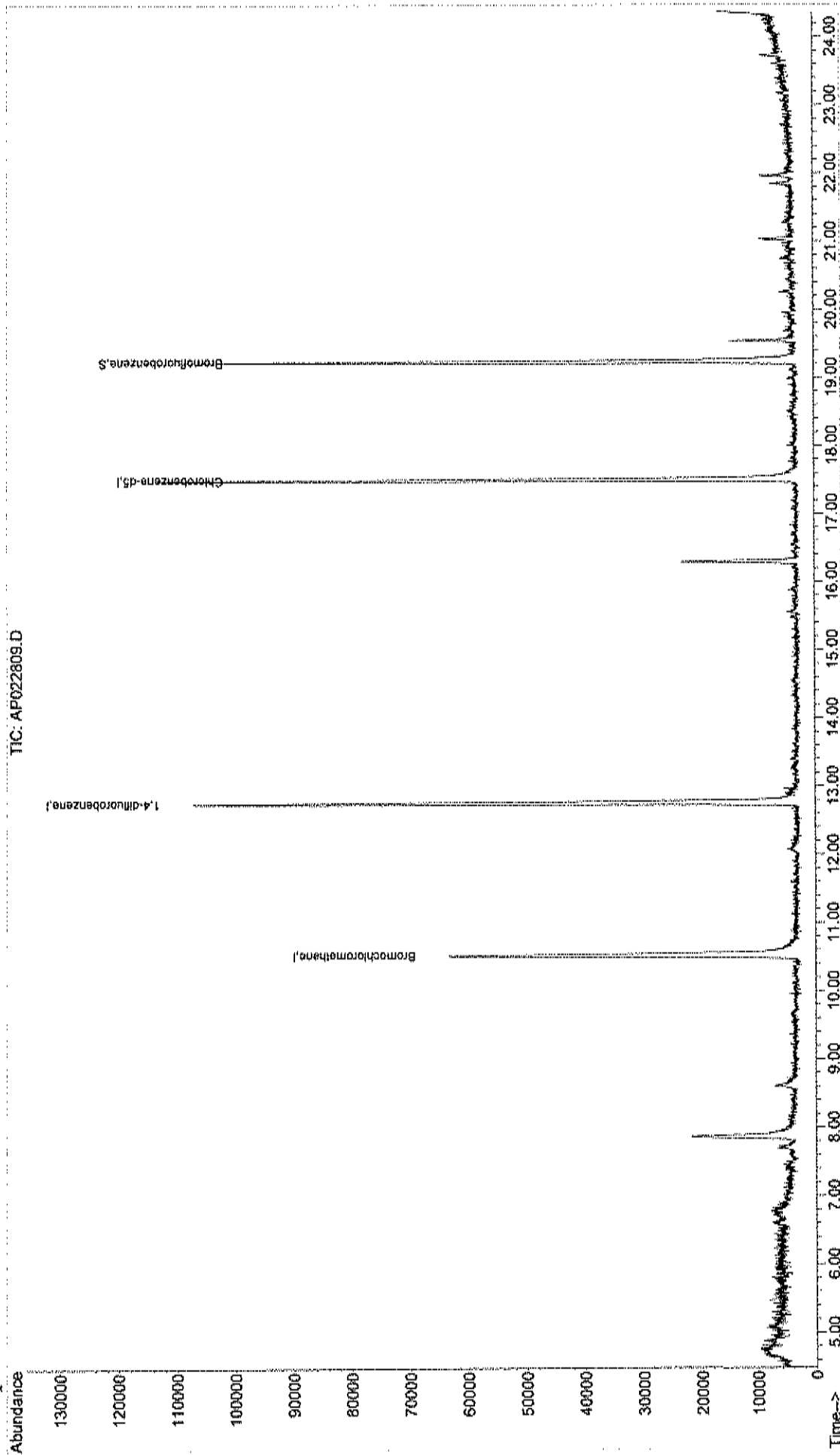
Qvalue

Data File : C:\HPCHEM\1\DATA2\AP022809.D
Acq On : 28 Feb 2018 3:04 pm
Sample : WAC022818D
Misc : A220_IUG
MS Integration Params: RTEINT.P
Quant Time: Mar 1 9:54 2018

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A220_IUG.RES

Method : C:\HPCHEM\1\METHODS\A318_IUG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Mar 28 07:43:59 2018
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\DI033018.D
 Acq On : 30 Mar 2018 7:03 pm
 Sample : C1803073-001A 10X
 Misc : TO15

Vial: 8
 Operator: WD
 Inst : GCMS3
 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Apr 2 9:30 2018

Quant Results File: J0318T15.RES

Quant Method : C:\HPCHEM\1\METHODS\J0318T15.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Mon Mar 19 08:07:20 2018

Response via : Initial Calibration

DataAcq Meth : NEW1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	10.00	128	145157	50.00	ppb	-0.06
40) 1,4-difluorobenzene	12.20	114	906339	50.00	ppb	-0.03
57) Chlorobenzene-d5	16.48	117	988624	50.00	ppb	0.00

System Monitoring Compounds

67) Bromofluorobenzene	17.94	95	691730	49.92	ppb	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.84%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.27	41	3511104	827.32	ppb	87
3) Freon 12	4.34	85	298070	24.67	ppb	99
4) Freon 114	4.55	85	26164	1.87	ppb	85
7) Vinyl Chloride	4.75	62	219671	43.65	ppb	96
8) Butane	4.85	43	4866346	499.58	ppb	85
11) Chloroethane	5.39	64	19406	7.62	ppb	98
12) Ethanol	5.47	45	3834057	2628.03	ppb	93
14) Freon 11	6.01	101	33378	2.98	ppb	99
16) Acetone	6.16	43	10771491	2219.91	ppb	78
17) Pentane	6.27	43	3576715m	284.14	ppb	
18) Isopropyl alcohol	6.28	45	8537592	1208.40	ppb	# 23
21) t-butyl alcohol	6.99	59	1460923	153.12	ppb	96
23) Methylene Chloride	7.25	84	96386	24.72	ppb	96
24) Carbon disulfide	7.41	76	95349	10.09	ppb	88
28) 1,1-Dichloroethane	8.61	63	41119	4.42	ppb	93
29) Methyl Ethyl Ketone	9.09	72	4983285	2306.94	ppb	# 1
30) Hexane	9.11	41	898447	149.32	ppb	# 1
31) cis-1,2-dichloroethene	9.54	96	201319	45.81	ppb	100
32) Ethyl acetate	9.66	45	567212	395.07	ppb	94
34) Tetrahydrofuran	10.27	42	2501661	421.46	ppb	91
36) 1,2-Dichloroethane	11.26	62	214423	35.18	ppb	100
37) Benzene	11.55	78	4170520	244.90	ppb	97
39) Cyclohexane	11.62	56	658769	72.49	ppb	87
41) 2,2,4-trimethylpentane	12.33	57	2404746	87.35	ppb	90
42) Heptane	12.65	43	2517349	243.62	ppb	92
43) Trichloroethene	12.79	130	117335	18.63	ppb	97
48) Methyl Isobutyl Ketone	13.86	43	1585457	142.03	ppb	92
52) Toluene	14.71	92	10480207	895.90	ppb	93
55) Tetrachloroethylene	15.63	164	234366	33.52	ppb	100
58) Chlorobenzene	16.52	112	323508	18.34	ppb	92
59) Ethylbenzene	16.75	106	3864225	394.50	ppb	# 80
60) m&p-Xylene	16.91	106	8313232	694.52	ppb	88
61) Nonane	17.24	43	2880298	176.18	ppb	# 71
62) Styrene	17.32	104	1143996	65.12	ppb	# 63
63) o-xylene	17.35	91	6318772	253.03	ppb	92
66) Cumene	17.83	105	2188834	64.55	ppb	96
68) Propylbenzene	18.30	91	2110717	54.69	ppb	98
70) 4-ethyltoluene	18.44	105	1943071	63.21	ppb	98
71) 1,3,5-trimethylbenzene	18.49	105	1983320	70.06	ppb	90
72) 1,2,4-trimethylbenzene	18.87	105	4115090	157.66	ppb	92
75) 1,4-dichlorobenzene	19.24	146	913757	58.19	ppb	90
77) 1,2-dichlorobenzene	19.50	146	38074	2.44	ppb	# 4
79) Naphthalene	21.19	128	115442m	6.34	ppb	

(#) = qualifier out of range (m) = manual integration

DI033018.D J0318T15.M

Mon Apr 02 08:38:12 2018

Page 1



APPENDIX 8

Waste Characterization Laboratory Analytical Report



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
LaBella Associates, P.C.

For Lab Project ID

201124

Referencing

691 St. Paul St, 2170820

Prepared

Wednesday, March 18, 2020

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in blue ink, appearing to read "R. R. R.", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, March 18, 2020



Lab Project ID: 201124

Client: LaBella Associates, P.C.

Project Reference: 691 St. Paul St, 2170820

Sample Identifier: WCS01-Drums-20200313

Lab Sample ID: 201124-01

Date Sampled: 3/13/2020

Matrix: Soil

Date Received: 3/13/2020

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1221	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1232	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1242	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1248	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1254	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1260	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1262	< 0.274	mg/Kg		3/13/2020 18:44
PCB-1268	< 0.274	mg/Kg		3/13/2020 18:44

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	49.4	18.3 - 89.6		3/13/2020 18:44

Method Reference(s): EPA 8082A
 EPA 3546
 Preparation Date: 3/13/2020



Client: LaBella Associates, P.C.

Project Reference: 691 St. Paul St, 2170820

Sample Identifier: WCS01-Drums-20200313

Lab Sample ID: 201124-01A

Date Sampled: 3/13/2020

Matrix: TCLP Extract

Date Received: 3/13/2020

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		3/16/2020 14:38
1,2-Dichloroethane	< 20.0	ug/L	500		3/16/2020 14:38
2-Butanone	< 100	ug/L	200000		3/16/2020 14:38
Benzene	< 20.0	ug/L	500		3/16/2020 14:38
Carbon Tetrachloride	< 20.0	ug/L	500		3/16/2020 14:38
Chlorobenzene	< 20.0	ug/L	100000		3/16/2020 14:38
Chloroform	< 20.0	ug/L	6000		3/16/2020 14:38
Tetrachloroethene	< 20.0	ug/L	700		3/16/2020 14:38
Trichloroethene	< 20.0	ug/L	500		3/16/2020 14:38
Vinyl chloride	< 20.0	ug/L	200		3/16/2020 14:38
Surrogate	Percent Recovery		Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	85.8		74.3 - 138		3/16/2020 14:38
4-Bromofluorobenzene	102		66.3 - 125		3/16/2020 14:38
Pentafluorobenzene	91.9		87.4 - 111		3/16/2020 14:38
Toluene-D8	107		85.8 - 113		3/16/2020 14:38

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x69079.D



Lab Project ID: 201124

Client: LaBella Associates, P.C.

Project Reference: 691 St. Paul St, 2170820

Sample Identifier: WCS01-Drums-20200317

Lab Sample ID: 201124-02

Date Sampled: 3/17/2020

Matrix: TCLP Extract

Date Received: 3/17/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		3/18/2020 12:34
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		3/18/2020 12:34
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		3/18/2020 12:34
2,4-Dinitrotoluene	< 40.0	ug/L	130		3/18/2020 12:34
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		3/18/2020 12:34
Hexachlorobenzene	< 40.0	ug/L	130		3/18/2020 12:34
Hexachlorobutadiene	< 40.0	ug/L	500		3/18/2020 12:34
Hexachloroethane	< 40.0	ug/L	3000		3/18/2020 12:34
Nitrobenzene	< 40.0	ug/L	2000		3/18/2020 12:34
Pentachlorophenol	< 80.0	ug/L	100000		3/18/2020 12:34
Pyridine	< 40.0	ug/L	5000		3/18/2020 12:34
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	102	59.6 - 114		3/18/2020 12:34	
2-Fluorobiphenyl	86.8	36.2 - 99.1		3/18/2020 12:34	
2-Fluorophenol	68.9	14.9 - 105		3/18/2020 12:34	
Nitrobenzene-d5	87.7	53.7 - 102		3/18/2020 12:34	
Phenol-d5	65.4	10 - 106		3/18/2020 12:34	
Terphenyl-d14	94.6	58.7 - 116		3/18/2020 12:34	

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
 Preparation Date: 3/18/2020
 Data File: B45161.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, March 18, 2020



CHAIN OF CUSTODY

201121

1 of 2

REPORT TO:		CLIENT: Labella Associates LLC		CLIENT: Same		LAB PROJECT ID: 2170820	
ADDRESS: 300 State St		ADDRESS:		ADDRESS:		QUOTATION #:	
CITY: Rochester		STATE: NY		CITY:		STATE:	
PHONE:		PHONE:		PHONE:		ZIP:	
ATTN: Mike Peluchy		ATTN:		ATTN:		EMAIL: mpeluchy@labella.com	

PROJECT REFERENCE 691 St. Paul St	WA - Water	DW - Drinking Water	SO - Soil	SD - Solid	WP - Wipe	OL - Oil
Matrix Codes: AQ - Aqueous Liquid NA - Non-Aqueous Liquid	WG - Groundwater	WW - Wastewater	SL - Sludge	PT - Paint	CK - Caulk	AR - Air

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MACTD RIS	NON HAZAROUS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
3-18-2020	0830	α		Wisoi - drums - 2020 0509	5.1	23 X	TCLP VOC TCLP SVOC PCB	A For TCLP extract. CP 3/13/2020	01A
				2020 0513		X			
				per Sample 1c cells					
				CP 3/13/2020					
3/17/2020		γ		WCSOI - drums - 20200317		X		replacement sample rec'd 3/17/2020 9:20 insufficient volume to re-extract	109c

Turnaround Time	Report Supplements
Standard 5 day <input type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day <input checked="" type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	Other <input type="checkbox"/>
Other <input type="checkbox"/>	Other EDD <input type="checkbox"/>

Availability contingent upon lab approval; additional fees may apply.

None Required Basic EDD NVSDEC EDD

Batch QC Category A Category B

Standard 5 day 10 day Rush 3 day Rush 2 day Rush 1 day Other

None Required Basic EDD NVSDEC EDD

Batch QC Category A Category B

Other Other EDD

Sampled By: Michael F. Peluchy Date/Time: 2020-03-13 0840

Relinquished By: [Signature] Date/Time: 3/13/2020 840

Received By: [Signature] Date/Time: 3/13/2020 09:05

Received @ Lab By: [Signature] Date/Time: 3/13/2020 08:45

Total Cost: [] P.I.F. []

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional name for sample conditions



2 of 2

Chain of Custody Supplement

Client: La Bella Associates Completed by: Glenn Pezzulo
 Lab Project ID: 201124 Date: 3/13/2020

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> TCLP v.o.A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Comments	<u>12°C</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



APPENDIX 9

Disposal Documentation



OCTOBER 19, 2020

VSQG

BAUSCH & LOMB

691 ST. PAUL STREET

ROCHESTER, NY 14605

Re: Certificate of Disposal/Recycling

Work Order# 49025

VSQG

BAUSCH & LOMB

691 ST. PAUL STREET

ROCHESTER, NY 14605

Dear Sir/Madam:

This letter is to certify that Cycle Chem, Inc. (EPA ID No. PAD067098822) has accepted and processed the following shipments. This acceptance is in accordance with all state and federal regulations and with the requirements set forth in Cycle Chem's Hazardous Waste Facility Permit.

Date In	Manifest In	Prod Code (Off Spec)	Date Out	Manifest Out	Disposal Facility	Disposal Method	Drum Id	Serial #	Mgt. Code
03/27/2020	SUN-3806-1	LD	04/08/2020	6436828	MODERN LANDFILL		D47801-1		
03/27/2020	SUN-3806-1	LD	04/08/2020	6436828	MODERN LANDFILL		D47801-2		

Broker:

SUN ENVIRONMENTAL CORP. (CCI-PA)

4655 CROSSROADS PARK DRIVE

LIVERPOOL, NY 13088

If there are any further questions about the management of your waste, please call 717-938-4700

Sincerely,

Terry Earnest
General Manager
Cycle Chem, Inc.
EPA ID No. PAD067098822

507-10

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number
V S O G

2. Page 1 of
1

3. Emergency Response Phone
800-807-7455

4. Waste Tracking Number
SUN-3806

5. Generator's Name and Mailing Address
**BAUSCH & LOMB
691 ST. PAUL STREET
ROCHESTER NY 14605**
Generator's Phone: **605-205-6263**

At: MIKE PELYCHATY

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
SUN ENVIRONMENTAL CORP.

U.S. EPA ID Number
NYR000176958

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
**CYCLE CHEM, INC.
660 INDUSTRIAL DR.
LEWISBERRY PA 17339**
Facility's Phone: **717-838-4700**

U.S. EPA ID Number
PAD067098822

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. **NON RCRA, NON DOT REGULATED SOLIDS (SOIL AND CONCRETE)**

002

DM

01000

P

2.

3.

4.

13. Special Handling Instructions and Additional Information

**JOB# LABL.1063 SUN PO# R41022
1. 110470-LD (55-GALLONS)**

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Michael Polychat

Signature

[Signature]

Month Day Year
3 25 2002

15. International Shipments Import to U.S. Export from U.S.

Port of entry/exit:

Transporter Signature (for exports only):

Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Paul D Burch Jr

Signature

[Signature]

Month Day Year
3 25 2002

Transporter 2 Printed/Typed Name

Signature

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/typed Name

Annie E. Hied

Signature

[Signature]

Month Day Year
3 27 2002

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY