

**Elton Crossing (Melrose C - Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
**BRONX, NEW YORK**

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## **Periodic Review Report**

**NYSDEC Brownfield Cleanup Program Site Number: C203073**

**AKRF Project Number: 11901**

**Prepared for:**

New York State Department of Environmental Conservation  
Division of Environmental Remediation, Bureau B  
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**On Behalf of:**

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**MAY 2019**

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## P.E. CERTIFICATION

I, Michelle Lapin, P.E., am currently a registered Professional Engineer licensed by the State of New York. I had primary direct responsibility for implementation of the Site Management Plan (SMP) protocols, and I certify that the documentation of site management activities is accurately presented in the Periodic Review Report (PRR) for the Elton Crossing (Melrose C – Family) site, [BCP Site No. C203073 (the “Site”)].


For each Institutional Control (IC) and Engineering Control (EC) identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the ICs and ECs (collectively, the “controls”) required by the remedial program was performed under my direction;
- The controls employed at this Site are unchanged from the date they were put in place, or last approved by the New York State Department of Environmental Conservation (the “Department”);
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for the controls;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of the controls;
- If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the Site is compliant with the Environmental Easement (EE);
- The EC systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

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, Michelle Lapin, P.E., of 440 Park Avenue South, 7<sup>th</sup> Floor, New York, NY 10016, am certifying as the Owner’s Designated Site Representative for the Site.

Michelle Lapin, P.E.  
NYS Professional Engineer

May 3, 2019  
Date

  
Signature



## **EXECUTIVE SUMMARY**

This Periodic Review Report (PRR) was prepared for the Elton Crossing (Melrose C – Family) site located at 432 East 162<sup>nd</sup> Street (899 Elton Avenue) in the Bronx, New York, hereafter referred to as the “Site”. The Site is identified on the New York City Tax Map as Bronx Borough Block 2383, Lot 19 (former Lots 19, 25, 27, 30, 35, 8900, and a formerly unmapped section of Melrose Crescent from East 161<sup>st</sup> Street to East 162<sup>nd</sup> Street). The Site is an approximately 0.695-acre parcel bounded by: East 162<sup>nd</sup> Street to the north, followed by a construction site; East 161<sup>st</sup> Street to the south, followed by residential and commercial buildings; Elton Avenue, followed by Boricua College and the O’Neill Triangle Park to the east; and residential apartment buildings and open land to the west. The development project included the construction of an approximately 171,017-gross square foot mixed-use commercial and residential building with an interior parking area on the northwestern portion, a partial cellar on the northeastern portion, and a central exterior parking area and courtyard. The building contains: mechanical space in the partial cellar; a residential lobby, commercial spaces, parking, and a courtyard on the ground floor; and residential apartments above. A Site Location Map is provided as Figure 1 and a Site Plan is provided as Figure 2.

The Site was investigated and remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) in accordance with Brownfield Cleanup Agreement (BCA) Index No. C203073-11-14, which was executed in November 2014 and amended in October 2016. The Site was remediated to Track 4 Site-Specific Soil Cleanup Objectives (SSSCOs) in accordance with the NYSDEC-approved June 2015 Remedial Action Work Plan (RAWP) and Decision Document (DD), as documented in the December 2016 Final Engineering Report (FER). Following completion of remediation and submission of the FER, NYSDEC issued the Certificate of Completion (COC) in December 2016. Post-remedial Site monitoring requirements were established in the December 2016 Site Management Plan (SMP).

The purpose of this PRR is to document and certify that the Site’s Engineering Controls (ECs) and Institutional Controls (ICs) have been implemented in accordance with the SMP and all relevant Brownfield Cleanup Program (BCP) requirements during the 12-month periodic review reporting period from April 16, 2018 to April 16, 2019. This PRR also documents the soil vapor intrusion evaluation (SVIE) conducted at the Site in November 2018. The SVIE was performed to determine whether the sub-slab depressurization system (SSDS) required activation or if it could remain in a passive state. The SVIE was conducted in accordance with the October 2018 NYSDEC-approved Vapor Intrusion Assessment Work Plan (VIWP), and the Site-specific Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP), included as Appendices J and H of the SMP, respectively.

The results of the PRR and SVIE are included herein. The remedy remains effective and protective of human health and the environment, and remains in compliance with the requirements established in the SMP. Periodic inspections, including the annual Site-wide composite cover system and SSDS inspections, will continue to be performed in accordance with the SMP.

## 1.0 SITE OVERVIEW

### 1.1 Site History

The Site was developed historically with: an automobile garage from 1927 to 1940; a factory in 1945; freezer and oven mobile units in 1961; a metal works from at least 1969 to 1978; and Blasco Supply Company from 2000 to 2005 on former Lot 19. Former Lot 25 was developed with an automobile garage in 1921 and a funeral home from at least 1927 to 1984. Former Lot 27 was developed with an undertaker and a multi-story residential building from at least 1969 to 1979. Former Lot 29 was developed with a beauty shop, a lawyers' office, a dentist, and a multi-story residential building from 1927 to 1971. Former Lot 35 was developed with: the Elton Glass Works, Soenning Plumbing and Heating, and a butcher and glazer in 1927; and stores and a multi-story residential building in 1965. The remaining former lots (southern and eastern portion of the Site) were developed historically as multi-story residences with cellars that likely contained petroleum storage tanks. A Site Location Map is provided as Figure 1.

### 1.2 Site Redevelopment

The former building on the northwestern portion of the Site (former Lot 19) was demolished in June 2015. The remediation allowed for redevelopment of the Site for restricted residential use as described in 6 New York Codes, Rules, and Regulations (NYCRR) Part 375-1.8(g)(2)(ii), which may include industrial, commercial, and certain institutional uses, including but not limited to, multi-family residential, educational, and child care uses. The development project included the construction of an approximately 171,017-gross square foot, mixed-use, commercial and residential building with an interior parking area on the northwestern portion, a partial cellar on the northeastern portion and a central exterior courtyard. The building contains: mechanical space in the partial cellar; a residential lobby, commercial spaces, parking, and a courtyard on the ground floor; and residential apartments above. A Site Plan showing the extent of the Site building is provided as Figure 2.

### 1.3 Geology and Hydrogeology

The Site elevation is approximately 30 feet above the National Geodetic Vertical Datum of 1929 (NGVD) (an approximation of mean sea level). The topography of the Site is relatively level.

Based on subsurface investigations conducted at the Site prior to development, soil/fill at the Site was composed of between approximately 3 to 9 feet of fill comprising sand, silt, gravel, concrete, brick, plastic, glass, concrete, and asphalt, underlain by apparent native sand and gravel on top of Inwood Marble bedrock. A February 2014 geotechnical investigation by Tectonic Engineering and Surveying Consultants identified bedrock beneath the Site at depths ranging between 7.5 and 23 feet below grade, which was observed during general excavation activities at the Site.

During AKRF's February and March 2015 Supplemental Remedial Investigation (SRI), groundwater was encountered within bedrock fractures between 14.72 and 17.15 feet below grade. Based on Site-specific groundwater measurements, groundwater flow beneath the Site is generally to the northwest. Regional groundwater flow is generally to the south towards the Harlem River, located approximately 1.7 miles south of the Site. Groundwater in the Bronx is not used as a source of potable water.

### 1.4 Nature and Extent of Contamination Prior to Remediation

Based on the Remedial Investigation (RI) conducted in April 2014 and the SRI conducted in February and March 2015, the fill layer across the Site was contaminated with polycyclic aromatic hydrocarbons (PAHs), pesticides, polychlorinated biphenyls (PCBs), and metals. In addition, petroleum-contaminated soil/fill was encountered from approximately 8 to 17 feet below surface grade on former

Lot 29 (northeastern portion of the Site). The petroleum contamination was attributed to the former fuel oil use at the Site. The elevated levels of pesticides indicated the prior usage and possible storage of pesticides in the cellar(s) of the former Site structure(s). The contaminants in the soil/fill were not observed to be migrating and were documented to have no adverse effect on groundwater quality. Elevated levels of volatile organic compounds (VOCs) were detected in soil vapor beneath former Lot 19 (northwestern portion of the Site) and on the southern portion of the Site.

**1.4.1 Pre-Remedial Soil/Fill Contamination**

A total of 43 soil/fill samples were submitted for laboratory analysis during the RI and SRI. Soil sample analytical results were compared to the 6 NYCRR Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs). RI and SRI soil/fill sample concentrations above respective UUSCOs and/or RRSCOs are summarized in Table 1.

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte              | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|----------------------|----------------|---------------|---------------|-----------------------|
| Benzo(a,h)anthracene | SB-2 (0-2)     | 1             | 1             | 1.15                  |
|                      | SB-3 (8-10)    |               |               | 2.72                  |
|                      | SB-5 (0-2)     |               |               | 1.16                  |
|                      | SB-6 (5-7)     |               |               | 2.24                  |
|                      | SB-8 (0-2)     |               |               | 6.23 D                |
|                      | SB-8 (7-9)     |               |               | 4.3 D                 |
|                      | SB-8 (7-9)B    |               |               | 3.45                  |
|                      | SB-10 (0-2)    |               |               | 1.81 J                |
|                      | SB-10 (0-2)B   |               |               | 4.8 JD                |
|                      | SB-13 (0-2)    |               |               | 2.03                  |
| Benzo(a)pyrene       | SB-2 (0-2)     | 1             | 1             | 1.3                   |
|                      | SB-3 (8-10)    |               |               | 2.77                  |
|                      | SB-5 (0-2)     |               |               | 1.24                  |
|                      | SB-6 (5-7)     |               |               | 2.15                  |
|                      | SB-8 (0-2)     |               |               | 6.87 D                |
|                      | SB-8 (7-9)     |               |               | 4.39 D                |
|                      | SB-8 (7-9)B    |               |               | 3.63                  |
|                      | SB-10 (0-2)    |               |               | 1.89 J                |
|                      | SB-10 (0-2)B   |               |               | 4.99 JD               |
|                      | SB-13 (0-2)    |               |               | 1.97                  |
| Benzo(b)fluoranthene | SB-2 (0-2)     | 1             | 1             | 1.66                  |
|                      | SB-3 (8-10)    |               |               | 3.01                  |
|                      | SB-5 (0-2)     |               |               | 1.46                  |
|                      | SB-6 (5-7)     |               |               | 2.49                  |
|                      | SB-8 (0-2)     |               |               | 7.47 D                |
|                      | SB-8 (7-9)     |               |               | 5.01 D                |

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte                | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|------------------------|----------------|---------------|---------------|-----------------------|
|                        | SB-8 (7-9)B    |               |               | 4.38 D                |
|                        | SB-10 (0-2)    |               |               | 2.07                  |
|                        | SB-10 (0-2)B   |               |               | 5.69 D                |
|                        | SB-13 (0-2)    |               |               | 2.46                  |
| Benzo(k)fluoranthene   | SB-3 (8-10)    | 0.8           | 3.9           | 1.12                  |
|                        | SB-6 (5-7)     |               |               | 0.895                 |
|                        | SB-8 (0-2)     |               |               | 2.56 J                |
|                        | SB-8 (7-9)     |               |               | 1.85                  |
|                        | SB-8 (7-9)B    |               |               | 1.4                   |
|                        | SB-10 (0-2)B   |               |               | 1.89 J                |
|                        | SB-13 (0-2)    |               |               | 0.886                 |
| Chrysene               | SB-2 (0-2)     | 1             | 3.9           | 1.38                  |
|                        | SB-3 (8-10)    |               |               | 2.91                  |
|                        | SB-5 (0-2)     |               |               | 1.23                  |
|                        | SB-6 (5-7)     |               |               | 2.5                   |
|                        | SB-8 (0-2)     |               |               | 6.49 JD               |
|                        | SB-8 (7-9)     |               |               | 4.79 D                |
|                        | SB-8 (7-9)B    |               |               | 3.63                  |
|                        | SB-10 (0-2)    |               |               | 2.04                  |
|                        | SB-10 (0-2)B   |               |               | 5.34 D                |
| Dibenz(a,h)anthracene  | SB-3 (8-10)    | 0.33          | 0.33          | 0.462                 |
|                        | SB-6 (5-7)     |               |               | 0.631                 |
|                        | SB-8 (0-2)     |               |               | 1.34 J                |
|                        | SB-8 (7-9)     |               |               | 0.858                 |
|                        | SB-8 (7-9)B    |               |               | 0.675                 |
|                        | SB-10 (0-2)    |               |               | 0.453                 |
|                        | SB-10 (0-2)B   |               |               | 0.822                 |
|                        | SB-13 (0-2)    |               |               | 0.531                 |
| Indeno(1,2,3-cd)pyrene | SSB-1 (5-7)    | 0.5           | 0.5           | 0.406 J               |
|                        | SB-2 (0-2)     |               |               | 0.918                 |
|                        | SB-3 (8-10)    |               |               | 1.68                  |
|                        | SB-5 (0-2)     |               |               | 0.908                 |
|                        | SB-6 (5-7)     |               |               | 1.78                  |
|                        | SB-8 (0-2)     |               |               | 4.12 JD               |
|                        | SB-8 (7-9)     |               |               | 3.27                  |
| SB-8 (7-9)B            | 2.61           |               |               |                       |

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte     | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|-------------|----------------|---------------|---------------|-----------------------|
|             | SB-10 (0-2)    |               |               | 1.25 J                |
|             | SB-10 (0-2)B   |               |               | 3.21 J                |
|             | SB-13 (0-2)    |               |               | 1.54                  |
|             | SSB-1 (5-7)    |               |               | 1.23 J                |
| Xylenes     | SB-13 (8-10)   | 0.26          | 100           | 0.769                 |
| Arsenic     | SB-10 (0-2)B   | 13            | 16            | 18.4 J                |
|             | SSB-1 (0-2)    |               |               | 16.1 c                |
|             | SSB-1 (5-7)    |               |               | 14.5                  |
|             | SS-1           |               |               | 13.3                  |
| Barium      | SB-3 (0-2)     | 350           | 400           | 588                   |
|             | SB-3 (8-10)    |               |               | 487                   |
|             | SB-4 (0-2)     |               |               | 592                   |
|             | SB-4 (8-10)    |               |               | 923                   |
|             | SB-5 (0-2)     |               |               | 592                   |
|             | SB-6 (5-7)     |               |               | 2,900                 |
|             | SB-8 (0-2)     |               |               | 397 J                 |
|             | SB-8 (0-2)FD   |               |               | 389                   |
|             | SB-8 (7-9)     |               |               | 1,580 J               |
|             | SB-8 (7-9)B    |               |               | 554 J                 |
|             | SB-10 (0-2)    |               |               | 999 J                 |
|             | SB-10 (0-2)B   |               |               | 716 J                 |
|             | SB-13 (0-2)    |               |               | 383                   |
|             | SB-13 (8-10)   |               |               | 668                   |
|             | SB-14 (0-2)    |               |               | 2,200                 |
|             | SSB-1 (0-2)    |               |               | 792                   |
| SSB-1 (5-7) | 492            |               |               |                       |
| Cadmium     | SB-4 (8-10)    | 2.5           | 4.3           | 6.8                   |
|             | SSB-1 (0-2)    |               |               | 792                   |
|             | SSB-1 (5-7)    |               |               | 492                   |
| Chromium    | SB-2 (8-10)    | 30            | 180           | 33                    |
|             | SB-4 (0-2)     |               |               | 34.9                  |
|             | SB-5 (0-2)     |               |               | 40.4 b                |
|             | SB-7 (0-2)     |               |               | 36.9                  |
|             | SB-7 (5-7)     |               |               | 35.3                  |
|             | SB-10 (0-2)B   |               |               | 36.5 Jb               |
|             | SB-10 (8-10)   |               |               | 44.7 J                |
|             | SB-10 (8-10)FD |               |               | 70.2 J                |

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte      | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|--------------|----------------|---------------|---------------|-----------------------|
|              | SB-13 (8-10)   |               |               | 31.2                  |
| Copper       | SB-1 (0-2)     | 50            | 270           | 60.7                  |
|              | SB-1 (8-10)    |               |               | 267                   |
|              | SB-4 (8-10)    |               |               | 51.9                  |
|              | SB-5 (0-2)     |               |               | 71.5 b                |
|              | SB-7 (0-2)     |               |               | 329                   |
|              | SB-7 (5-7)     |               |               | 54.6 Jb               |
|              | SB-10 (0-2)B   |               |               | 60.8                  |
|              | SB-13 (8-10)   |               |               | 198 c                 |
|              | SSB-1 (0-2)    |               |               | 270                   |
|              | SSB-1 (5-7)    |               |               | 95.3                  |
|              | SS-1           |               |               | 130 c                 |
|              | Lead           |               |               | SB-2 (0-2)            |
| SB-3 (0-2)   |                | 199           |               |                       |
| SB-3 (8-10)  |                | 97.9          |               |                       |
| SB-4 (0-2)   |                | 598           |               |                       |
| SB-4 (8-10)  |                | 2,760         |               |                       |
| SB-5 (0-2)   |                | 678 b         |               |                       |
| SB-6 (5-7)   |                | 156           |               |                       |
| SB-8 (0-2)   |                | 667 Jb        |               |                       |
| SB-8 (0-2)FD |                | 300 J         |               |                       |
| SB-8 (7-9)   |                | 465           |               |                       |
| SB-8 (7-9)B  |                | 565           |               |                       |
| SB-9 (0-2)   |                | 245           |               |                       |
| SB-10 (0-2)  |                | 452 J         |               |                       |
| SB-10 (0-2)B |                | 3,530 Jb      |               |                       |
| SB-11 (0-2)  |                | 136           |               |                       |
| SB-13 (0-2)  |                | 220           |               |                       |
| SB-13 (8-10) |                | 683           |               |                       |
| SB-14 (0-2)  |                | 935 c         |               |                       |
| SSB-1 (0-2)  |                | 1,940         |               |                       |
| SSB-1 (5-7)  |                | 373           |               |                       |
| SSB-1 (7-9)  |                | 100           |               |                       |
| SSB-2 (5-7)  |                | 450           |               |                       |
| SSB-2 (8-10) | 354 c          |               |               |                       |
| SS-1         | 354 c          |               |               |                       |
| Mercury      | SB-4 (8-10)    | 0.18          | 0.81          | 0.95                  |

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte        | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|----------------|----------------|---------------|---------------|-----------------------|
|                | SB-8 (0-2)     |               |               | 2.2 J                 |
|                | SB-8 (0-2)FD   |               |               | 1.2 J                 |
|                | SB-8 (7-9)     |               |               | 0.29                  |
|                | SB-10 (0-2)    |               |               | 0.2 J                 |
|                | SB-10 (0-2)B   |               |               | 1.8 J                 |
|                | SB-13 (0-2)    |               |               | 0.39                  |
|                | SB-13 (8-10)   |               |               | 34.8                  |
|                | SSB-1 (0-2)    |               |               | 44                    |
|                | SSB-1 (5-7)    |               |               | 5.3                   |
|                | SSB-1 (7-9)    |               |               | 0.82                  |
|                | Nickel         |               |               | SB-5 (0-2)            |
| SB-7 (5-7)     |                | 30.5          |               |                       |
| SB-10 (0-2)B   |                | 32.4 J        |               |                       |
| SB-10 (8-10)FD |                | 52.3 J        |               |                       |
| SSB-1 (0-2)    |                | 34.7          |               |                       |
| SSB-1 (5-7)    |                | 43.1          |               |                       |
| SSB-1 (7-9)    |                | 30.6          |               |                       |
| SSB-3 (5-7)    |                | 38.6          |               |                       |
| SS-1           |                | 35.7          |               |                       |
| Selenium       | SB-10 (0-2)B   | 3.9           | 180           | 5.2 b                 |
| Silver         | SB-4 (8-10)    | 2             | 180           | 17.1                  |
| Zinc           | SB-2 (0-2)     | 109           | 10,000        | 197                   |
|                | SB-3 (0-2)     |               |               | 274                   |
|                | SB-3 (8-10)    |               |               | 273                   |
|                | SB-4 (0-2)     |               |               | 637                   |
|                | SB-4 (8-10)    |               |               | 1,470                 |
|                | SB-5 (0-2)     |               |               | 519 b                 |
|                | SB-6 (5-7)     |               |               | 895                   |
|                | SB-8 (0-2)     |               |               | 1,220 Jb              |
|                | SB-8 (0-2)FD   |               |               | 214 J                 |
|                | SB-8 (7-9)     |               |               | 669                   |
|                | SB-8 (7-9)B    |               |               | 569                   |
|                | SB-9 (0-2)     |               |               | 431                   |
|                | SB-10 (0-2)    |               |               | 463 J                 |
|                | SB-10 (0-2)B   |               |               | 1,780 Jb              |
|                | SB-10 (8-10)   |               |               | 124                   |
|                | SB-11 (0-2)    |               |               | 153                   |

**Table 1**  
**Pre-Remedial Soil/Fill Exceedances of Soil Cleanup Objectives (SCOs)**

| Analyte | Soil Sample ID | UUSCO (mg/kg) | RRSCO (mg/kg) | Concentration (mg/kg) |
|---------|----------------|---------------|---------------|-----------------------|
|         | SB-13 (0-2)    |               |               | 192                   |
|         | SB-13 (8-10)   |               |               | 1,220                 |
|         | SB-14 (0-2)    |               |               | 921                   |
|         | SSB-1 (0-2)    |               |               | 1,280                 |
|         | SSB-1 (5-7)    |               |               | 1,320                 |
|         | SSB-1 (7-9)    |               |               | 404                   |
|         | SSB-2 (8-10)   |               |               | 633                   |
|         | SS-1           |               |               | 833                   |

Notes:  
 mg/kg – milligrams per kilogram = parts per million (ppm)  
 b – The reported concentration is from the second analytical run on the sample.  
 c – Elevated detection limit due to dilution required due to the presence of a high-interfering element.  
 J – The analyte was detected above the laboratory reporting limit; the reported concentration is estimated and may be inaccurate or imprecise.  
 D – The reported concentration is the result of a diluted analysis.  
 Jb – The reported concentration is from the second analytical run and is estimated.  
 JD – The reported concentration is the result of a diluted analysis and is estimated.

Additionally, soil/fill containing lead at a toxic characteristic leaching procedure (TCLP) concentration of 5.7 milligrams per liter (mg/L) in test pit TP-4 on the northeastern portion of the Site, above the hazardous waste threshold of 5 mg/L, was identified during in-situ waste classification sampling. The hazardous waste was subsequently delineated to an approximately 30- by 40-foot area on the northeastern portion of the Site.

#### 1.4.2 Pre-Remedial Groundwater Contamination

Three groundwater samples were collected for laboratory analysis during the SRI. Laboratory analytical results were compared to NYSDEC Division of Water – Technical and Operational Guidance Series 1.1.1 (TOGS) Ambient Water Quality Standards and Guidance Values (AWQSGVs), although groundwater in the Bronx is not used as a potable water source.

The VOC chloroform was detected in one groundwater sample above its AWQSGV. Four metals in the total (unfiltered) analysis (iron, magnesium, manganese, and sodium) and three metals in the dissolved (filtered) analysis (iron, magnesium, and sodium) were detected in at least one of the groundwater samples above their respective AWQSGV. These metals are naturally occurring, are typical of groundwater quality in the Bronx, and were not likely related to a spill or release.

#### 1.4.3 Pre-Remedial Soil Vapor Contamination

Although there are currently no regulatory or published guidance values for VOCs in soil vapor, soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site. Six soil vapor samples were collected for laboratory analysis during the RI and one soil vapor sample was collected for laboratory analysis during the SRI.



Thirty-one VOCs were detected in the samples collected during the RI and 13 VOCs were detected in the sample collected during the SRI. VOCs associated with petroleum [including benzene, toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 1,2,4- and 1,3,5-trimethylbenzene, cyclohexane, n-heptane, n-hexane, 4-ethyltoluene, and 2,2,4-trimethylpentane] were detected at concentrations up to 123,000 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). Solvent-related VOCs (including styrene, PCE, and toluene) were detected at concentrations up to 871  $\mu\text{g}/\text{m}^3$ .

## 2.0 SITE REMEDIATION

Site remediation was conducted in accordance with the June 2015 NYSDEC-approved RAWP, as documented in the December 2016 NYSDEC-approved FER. Remedial activities included: (1) a Track 4 cleanup to achieve SSSCOs; and (2) implementation of ICs and ECs. All post-excavation soil/fill endpoint samples met the Track 4 SSSCOs. A list of the SSSCOs for the primary contaminants of concern and applicable land use for the Site are provided in Table 2.

**Table 2**  
**Track 4 Site-Specific Soil Cleanup Objectives (SSSCOs)**

| Compound   | Track 4 SSSCO                                  |
|--|--|
| VOCs   | Restricted Residential Soil Cleanup Objectives |
| Total SVOCs  | 500 ppm  |
| Lead   | 1,200 ppm                                      |
| Mercury  | 3 ppm  |
| Pesticides   | Commercial Soil Cleanup Objectives             |
| Polychlorinated Biphenyls  | Commercial Soil Cleanup Objectives             |
| Other Metals   | Commercial Soil Cleanup Objectives             |
| Notes:<br>VOCs – volatile organic compounds<br>SVOCs – semivolatile organic compounds<br>ppm – parts per million |  |

The completed remedy was documented in the NYSDEC-approved December 2016 FER and post-remediation Site management requirements were established in the NYSDEC-approved December 2016 SMP.

### 2.1 Contaminated Materials Removal and Endpoint Sampling

To achieve Track 4 SSSCOs, soil/fill was excavated and either disposed of off-site or re-used on-site to meet the required Site grades for redevelopment. The required in-situ pre-characterization sampling or ex-situ sampling for re-use was conducted prior to disposal or re-use, respectively. The following materials were removed from the Site (in addition to the materials associated with the demolition of the former Site structures): 14,068.21 tons of non-hazardous and 342.74 tons of hazardous soil/fill; five underground storage tanks (USTs) (one 550-gallon UST, one 1,000-gallon UST, two 275-gallon USTs, and one 1,080-gallon UST); and one 550-gallon aboveground storage tank (AST) and associated contents [1,950 gallons of a petroleum product/water mixture from the USTs, 200 gallons of a petroleum product/water mixture from the AST, and one 55-gallon drum (weighing approximately 300

pounds) of tank sludge]. Hazardous soil/fill excavation for disposal occurred within an approximately 30- by 40-foot area in Disposal Grid TP-4 in the northeastern portion of the Site from surface grade to a depth of approximately 14 feet below surface grade. Non-hazardous soil/fill excavation occurred across the Site from surface grade to bedrock at the deepest locations (approximately 8 to 20 feet below surface grade). Table 3 summarizes the quantity of soil/fill excavated and facilities where the material was disposed of off-site.

**Table 3**  
**Off-Site Soil/Fill Disposal Summary**

| Disposal Facility                   | Disposal Facility Location      | Waste Stream                        | Tons             |
|-------------------------------------|---------------------------------|-------------------------------------|------------------|
| Phase III Environmental, LLC        | Palmerton, Pennsylvania         | PA Clean                            | 6,134.00         |
|                                     |                                 | PA Regulated                        | 7,423.88         |
| Impact Environmental                | Lyndhurst, New Jersey           | NJ Residential                      | 423.29           |
| Republic Environmental Systems      | Hatfield, Pennsylvania          | Hazardous Lead                      | 342.74           |
| Atlantic County Utilities Authority | Egg Harbor Township, New Jersey | Elevated Pesticides (non-hazardous) | 68.26            |
|                                     |                                 | Elevated Mercury (non-hazardous)    | 18.78            |
| <b>Total</b>                        |                                 |                                     | <b>14,410.95</b> |

Following the removal of five USTs encountered during remedial excavation, tank excavation endpoint samples were collected in accordance with the NYSDEC-approved RAWP and the NYSDEC Technical Guidance for Soil Investigation and Remediation (DER-10). One soil/fill sample was collected from each of the four sidewalls and at the bottom of each tank grave, with the exception of the 1,000-gallon UST in Disposal Grid TP-12, where the tank excavation extended to bedrock and a bottom sample could not be collected. The tank excavation endpoint samples were designated with the prefix “UST”, a number (1-5 in the order the tank was encountered during excavation activities), an “N”, “S”, “E”, “W”, or “B” for the cardinal directions north, east, south, west, and the bottom of the excavation that the sample was collected from, and the sampling date. UST endpoint soil samples were analyzed for the Commissioner’s Policy (CP)-51 List of VOCs and SVOCs, as approved by the NYSDEC project manager.

UST Endpoint Sampling

All of the UST endpoint soil sample results met SSSCOs. Estimated concentrations of VOCs at concentrations below UUSCOs were detected in soil/fill samples UST-1/2-S-V 20150728, UST-3/4-N-V 20150820, and UST-5-S-V 20150824. The SVOCs benzo(k)fluoranthene and chrysene were detected above UUSCOs in soil/fill sample UST-3/4-W-C 20150824. The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected above UUSCOs and RRSCOs in soil/fill samples UST-3/4-W-C 20150824, UST-5-B-C 20150824, UST-5-E-C 20150824, UST-5-N-C 20150824, and/or UST-5-S-C 20150824.

Remedial Performance Site-Wide Endpoint Sampling

After completion of soil/fill excavation in October and December 2015, and February and March 2016, the residual management zone (RMZ) elevation was surveyed and endpoint samples were collected and analyzed to assess soil/fill concentrations relative to the NYSDEC UUSCOs, RRSCOs, and SSSCOs beneath the new Site building concrete foundation slabs. Analysis of the samples indicated that residual soil/fill complied with the SSSCOs. The PAHs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected in soil/fill sample EP-4 20160311 at concentrations above UUSCOs and/or RRSCOs, but below SSSCOs. The pesticides cis-chlordane, dieldrin, endrin, heptachlor, 4,4'-DDD, 4,4'-DDE, and/or 4,4'-DDT were detected at concentrations (some estimated) above UUSCOs in endpoint soil/fill samples EP-1 20160311, EP-2 20160225, EP-4 20160311, EP-5 20160311, EP-6 20160311, EP-7-B 20151023, EP-7-E 20151023, EP-7-N 20151023, EP-7-S 20151023, EP-7-W 20151023, and EP-X 20160311 (blind duplicate of EP-3 20160311). The pesticide dieldrin was also detected above the RRSCO in soil/fill sample EP-7-E 20151023 and the associated blind duplicate sample EP-X 20151023. The metals copper, lead, and/or mercury were detected in the endpoint soil/fill samples EP-X 20151023, EP-7-E 20151023, EP-5 20160311, and EP-7-W 20151023 at concentrations above respective UUSCOs, but below RRSCOs and SSSCOs.

Endpoint samples with concentrations exceeding their respective UUSCOs and RRSCOs are shown on Figure 8 of the SMP.

## 2.2 Import Soil/Fill Sample Analytical Results

Approximately 5,100 cubic yards of soil/fill were imported for use as backfill across the Site. Prior to importation, soil/fill samples were collected in accordance with the NYSDEC-approved RAWP and DER-10. The import soil samples were designated with the prefix "ISP" (import stockpile), a number, the letter "V" for the volatile grab samples or a "C" for the five-point composite samples, and the sampling date in "yyyymmdd" format. The six soil/fill samples (ISP-1 through ISP-6) were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, TAL metals by EPA Method 6000/7000 series, total cyanide, and hexavalent chromium by EPA Method 7196. VOCs were not detected in samples ISP-2-V1 0151016, ISP-2-V3 0151016, ISP-2-V4 0151016, and ISP-2-V5 0151016 and PCBs were not detected in samples ISP-5-CX 20160425, ISP-5B-C2 20160425, ISP-6A-C1 20150512, and ISP-6-CX 20150512. Several VOCs were detected in the remainder of the soil/fill samples at estimated concentrations below UUSCOs, RRSCOs, and SSSCOs. Acetone was detected in sample ISP-2-V7 20151016 at a concentration of 0.087 mg/kg, above its UUSCO of 0.05 mg/kg. SVOCs were detected at concentrations in the samples below UUSCOs, RRSCOs, and SSSCOs. Pesticides were detected in all samples. The pesticide P,P'-DDT was detected above its UUSCO of 0.0033 mg/kg, but below RRSCOs and SSSCOs in all import soil samples (except ISP-2-C1 20151016) at concentrations between 0.0049 mg/kg and 0.0149 mg/kg. The pesticide P,P'-DDE was detected above its UUSCO of 0.0033 mg/kg in samples ISP-1-C1 20150930, ISP-1-C2 20150930, ISP-3-C1 20160118, and ISP-5B-C2 20160425 at concentrations ranging from 0.00381 mg/kg to 0.00526 mg/kg. Dieldrin was also detected in import sample ISP-5B-C2 20160425 at a concentration of 0.0551 mg/kg, above its UUSCO, but below its RRSCO and its SSSCO. The remaining pesticides were detected below UUSCOs. Metals were not detected at concentrations above UUSCOs, RRSCOs, or SSSCOs in the following import samples: ISP-1-C2 20150930, ISP-2-C3 20151016, ISP-6A-C1 20160512, and ISP-6-CX 20160512. Select metals, including copper in two samples, lead in eight samples, mercury in six samples, and zinc in two samples were detected above UUSCOs, but below RRSCOs and SSSCOs, in the following samples: ISP-1-C1 20150930, ISP-2-C1 20151016, ISP-2-C2 20151016, ISP-3-C1 20160118, ISP-3-X 20160118, ISP-3-C2 20160118, ISP-3-C3 20160118, ISP-5A-C1 20160425, ISP-5-CX 20160425, ISP-5B-C2 20160425,

and ISP-6B-C2 20160512. Metals were not detected in any of the reuse samples above RRSCOs or SSSCOs.

A summary of import sample analytical results is provided in Tables 12a through 12e of the FER.

### 2.3 Reuse Soil/Fill Sample Analytical Results

Fourteen stockpiles were sampled at the Site for use as backfill in areas that were over-excavated for the installation of foundation elements. The reuse soil/fill sample analytical results were designated with the prefix "SP" (stockpile), a number (3-15 in the order the stockpile was sampled), a "V" for the volatile grab samples and a "C" for the five-point composite samples, and the sampling date. Stockpiles SP-5, SP-6B, SP-7, and SP-8 were deemed unacceptable for reuse on-site and were disposed of off-site in accordance with the NYSDEC-approved RAWP at approved disposal facilities.

VOCs and SVOCs were not detected above UUSCOs or RRSCOs in any of the soil/fill stockpiles reused on-site. Select PCBs were detected in reuse sample SB-7B-C1 20150924 at a total concentration of 0.226 mg/kg, above the total PCBs UUSCO of 0.1 mg/kg, but below the RRSCO of 0.226 mg/kg. No other PCBs were detected in the soil/fill approved for on-site reuse above UUSCOs or RRSCOs. Pesticides were not detected above UUSCOs or RRSCOs in the following reuse samples: SP-12-C1 20151221, SP-13A-C1 20160204, or SP-15A-C1 20160225. Dieldrin, P,P'-DDD, P,P'-DDE, and P,P'-DDT were detected above the UUSCO of 0.0033 mg/kg, but below their respective RRSCOs of 13 mg/kg, 8.9 mg/kg, and 7.9 mg/kg at concentrations ranging between an estimated 0.00338 mg/kg and 0.151 mg/kg in the following reuse samples: SP-3A-C1 20150911, SP-3B-C1 20150911, SP-4A-C1 20150914, SP-4A-C-2 20150914 and associated blind duplicate sample SP-4A-XC-2 20150914, SP-5A-C1 20150917, SP-5B-C1 20150917, SP-6A-C1 20150924, SB-6B-C1 20150924, SB-7A 20150924, SB-7B-C1 20150924, SP-9-C1 20151116 and associated blind duplicate sample SP-9-XC 20151116, SP-10A-C1 20151120, SP-10B-C1 20151120, SP-11A-C1 20151221, SP-11B-C1 20151221 and associated blind duplicate sample SP-11B-CX 20151221, SP-13B-C1 20160204 and associated blind duplicate sample SP-13B-CX 20160204, SP-14-C1 20160219 and associated blind duplicate sample SP-14-CX 20160219, SB-15-C1 20160727 and associated blind duplicate sample SP-15-CX 20160727, and SP-15B-C1 20160225.

A summary of reuse soil/fill sample analytical results is provided in Tables 11a through 11e of the FER.

### 2.4 Completion of Remediation Activities

Remedial activities at the Site concluded in October 2016. The Site was remediated to Track 4 SSSCOs in accordance with the June 2015 NYSDEC-approved RAWP, as documented in the December 2016 NYSDEC-approved FER. As a condition of completing a Track 4 cleanup, long-term Site management requires the implementation of an SMP with ICs and ECs.

### 2.5 Post-Remedial Construction Activities

As documented in the NYSDEC approved September 2018 PRR, post-remedial construction activities occurred at the Site between December 2016 and June 2018. The activities included sampling and import of soil/fill, the removal and replacement of portions of the composite cover system, and the installation of aboveground components of the SSDS. Procedures outlined in the EWP and SMP were strictly adhered to for the work, as detailed in the SMP. Work involving subsurface disturbance was also conducted in accordance with the procedures defined in the Site-specific HASP and CAMP. All post-remedial construction activities were detailed in Section 5.0 of the September 2018 NYSDEC-approved PRR.

### 3.0 SITE MANAGEMENT REQUIREMENTS

The SMP provides a detailed description of all procedures required to manage remaining contamination at the Site after completion of the remedial action (RA). Documented procedures include the following: (1) implementation and management of all ICs and ECs; and (2) performance of periodic inspections, certification of results, and submittal of annual PRRs.

#### 3.1 Institutional Controls (ICs)

Two ICs, the Environmental Easement (EE) [city file review number (CFRN) No. 2015000273271] and an SMP, were required by the RAWP to: (1) implement, maintain, and monitor the ECs; (2) prevent future exposure to any remaining contamination; and (3) limit the use and development of the Site to restricted residential uses only. Adherence to the ICs is required by the EE and is being implemented under the SMP. ICs identified in the EE may not be discontinued without an amendment to, or an extinguishment of the EE. The ICs include:

- The Site may be used for restricted residential use.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the Site is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the New York City Department of Health and Mental Hygiene (NYCDOH) to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from NYSDEC.
- All applicable environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP.
- All activities that will disturb any remaining contaminated material must be conducted in accordance with the SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP.
- Access to the Site must be provided to agents, employees, or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the EE.
- In-ground vegetable gardens and farming activities on the Site are prohibited.

#### 3.2 Engineering Controls (ECs)

Two ECs, a composite cover system and a vapor mitigation system, were implemented as part of the RA to prevent exposure to residual subsurface contamination.

##### 3.2.1 Composite Cover System

Exposure to any residual contaminated soil/fill is being prevented by an engineered composite cover system. The composite cover system was initially installed in September 2016 during remedial activities, and was modified between January and June 2018. The modifications documented in the September 2018 PRR were completed in accordance with the SMP and EWP, and are shown on Figure 3. The composite cover system includes the following cover types:

1. Building Slabs: 6 inches of concrete underlain by Grace Florprufe® 120R vapor barrier underlain by a 6-inch to 4-foot layer of ¾-inch gas-permeable aggregate (GPA) stone bedding underlain by geotextile fabric.
2. Elevator Pits: 6 inches of concrete underlain by Grace Preprufe® 300R vapor barrier/waterproofing underlain by a 6-inch to 4-foot layer of ¾-inch GPA underlain by geotextile fabric.
3. Exterior Foundation Walls: concrete foundation wall adjacent to Grace Preprufe® 300R vapor barrier/waterproofing adjacent to compacted subgrade.
4. Parking Area – Type 1: 6 inches of concrete underlain by Florprufe® 120R vapor barrier underlain by compacted subgrade.
5. Parking Area – Type 2: 6 inches of concrete underlain by a demarcation barrier (orange snow fence) underlain by compacted subgrade.
6. Walkway: 6 inches of concrete underlain by a demarcation barrier (orange snow fence) underlain by compacted subgrade.
7. Landscaped Area – Type 1: two feet of clean fill/soil underlain by a demarcation barrier (geotextile fabric), underlain by compacted subgrade.
8. Landscaped Area – Type 2: two feet of clean fill/soil underlain by a demarcation barrier (orange snow fence), underlain by compacted subgrade.
9. Courtyard: permeable pavers underlain by 2 inches of virgin gravel underlain by two feet of clean fill/soil underlain by a demarcation barrier (orange snow fence) underlain by compacted subgrade.

The compacted subgrade underneath the composite cover system constitutes the RMZ, which includes all soil/fill that requires adherence to special conditions during any post-remedial disturbance, excavation, or handling as part of on-site activities. The elevation of the RMZ is provided in Appendix B of the FER. Subgrade utilities for the building, SSDS piping and GPA are also located within the RMZ. The vapor barrier, geotextile fabric, and orange construction snow fence act as demarcation barriers, which separate the composite cover system from the RMZ. The two-foot thick clean fill buffer consists of imported fill that complies with the lower of the protection of groundwater or the protection of public health soil cleanup objectives (SCOs) for restricted residential use, as outlined in 6 NYCRR Part 375-6.7(d) and table 375-6.8(b), in accordance with the requirements stated in Section 5.4.9 of the NYSDEC-approved RAWP.

### 3.2.2 Sub-Slab Depressurization System (SSDS)

A SSDS was installed to mitigate the potential for soil vapor intrusion into the new building. The sub-slab components of the SSDS were installed between November 2015 and March 2016, as documented in the FER. The aboveground components were installed between January 2018 and June 2018, as documented in the September 2018 PRR. The components of the SSDS include:

- One 0.02-inch slotted, 4-inch diameter Schedule 40 polyvinyl chloride (PVC) pipe section (VR-1A) in the northeastern portion of the Site beneath the partial cellar;
- Three 0.02-inch slotted, 4-inch diameter Schedule 40 PVC pipe sections in the southern and southeastern portions of the Site (VR-1B, VR-1C, and VR-1D);

- One galvanized steel header in the partial cellar, which manifolds the four 4-inch diameter galvanized steel aboveground pipes into one 6-inch diameter galvanized steel riser pipe (VR-1) that extends the roof;
- A 10-foot, 10-inch diameter pipe extension above the rooftop fitted with a rain cap;
- Communication and pipe sleeves through concrete foundation elements;
- Two sub-slab condensate drains; and
- Five vacuum monitoring points (MP-1 through MP-5).

The SSDS “as-built” drawings are provided as Appendix A.

## 4.0 SOIL VAPOR INTRUSION EVALUATION (SVIE)

Following the completion of the new building envelope, an SVIE was conducted in accordance with the October 2018 NYSDEC-approved Vapor Intrusion Assessment Work Plan (VIWP) to determine whether contaminated vapor concentrations below the foundation slab and concentrations present in indoor air necessitate activation of the SSDS. The SVIE included: a pre-sampling inspection; chemical inventory; and collection and laboratory analysis of five sub-slab soil vapor samples, five indoor air samples, and one ambient (outdoor) air sample.

### 4.1 Pre-Sampling Building Inspection and Chemical Inventory

On November 19, 2018, prior to sampling, AKRF completed a pre-sampling inspection to document interior Site building characteristics, building occupancy, air flow patterns, utilities, building operations, chemical and maintenance product inventory, and any other known factors that may affect indoor air quality. AKRF personnel also visually inspected the building slabs to confirm their integrity. In addition, AKRF completed a pre-sampling questionnaire based on an interview with Mr. Ruddy Cabral of Briarwood Organization, Inc., construction superintendent for the Site, who answered pertinent questions about the building's age, construction characteristics, the heating venting and air conditioning (HVAC), and factors that may potentially influence indoor air quality.

A ppbRAE™ photoionization detector (PID) capable of detecting VOCs in the parts per billion (ppb) range equipped with a 10.6 electron Volt (eV) lamp was used to field-screen the indoor air for the presence of organic vapors. Relevant sections of a NYSDOH Indoor Air Quality Questionnaire and Chemical Inventory form were completed to document the results of the inspection.

### 4.2 Soil Vapor, Indoor, and Ambient Air Sampling

On November 19 and 20, 2018, five soil vapor samples (MP-1\_20181120 through MP-4\_20181120, and MP-5\_20181119), five indoor air samples (IA-1\_20181120 through IA-5\_20181120), and one ambient air sample (AA-1\_20181120) were collected from the locations shown on Figure 2 of the SVIE Report (SVIER). The soil vapor and indoor air samples were co-located and the ambient air sample was collected from the exterior courtyard. During sampling, the building remained sealed (all windows and doors closed), the HVAC was not operating, and the building was occupied by a minimal number of building staff on the ground and cellar floors.

Prior to sampling, each of the sub-slab soil vapor points (MP-1 through MP-5) was purged using a GilAir Plus sampling pump. During purging, a shroud was placed over the sampling point and helium gas was introduced through a small hole in the shroud to saturate the atmosphere around the sample port with helium gas. The purged vapors were collected in a 1-Liter Tedlar® bag and monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point, and to verify the adequacy of the seal. Helium was not detected at any of the installed soil vapor points indicating that all of the points passed the seal integrity tests. Purged vapors from the soil vapor samples were field-screened for VOCs using a calibrated PID. After purging, the probe was connected via Teflon™ lined tubing to a laboratory-supplied 6-Liter SUMMA® canister equipped with a 24-hour flow controller.

The indoor and ambient air samples were collected concurrently with the sub-slab soil vapor samples. The SUMMA® canisters were placed approximately 3 to 5 feet above the floor to simulate the breathing zone. Sampling information was recorded on sampling logs. Table 4 summarizes sample locations and IDs.



**Table 4**  
**Soil Vapor, Indoor Air, and Ambient Air Sample Summary**

| Sample Location ID | Sample ID                   | Location                                   |
|--------------------|-----------------------------|--|
| MP-1/IA-1          | MP-1_20181120/IA-1_20181120 | Partial Cellar, Electric Room              |
| MP-2/IA-2          | MP-2_20181120/IA-2_20181120 | Ground Floor, Northeastern Retail Location |
| MP-3/IA-3          | MP-3_20181120/IA-3_20181120 | Ground Floor, Central Retail Location      |
| MP-4/IA-4          | MP-4_20181120/IA-4_20181120 | Ground Floor, Southwestern Retail Location |
| MP-5/IA-5          | MP-5_20181119/IA-5_20181120 | Ground Floor, Recreation Room              |
| AA-1               | AA-1_20181120               | Ground Floor, Exterior Courtyard           |

**4.3 Soil Vapor Intrusion Evaluation (SVIE) Results**

Sub-slab soil vapor and indoor air sample analytical results were compared to the Soil Vapor/Indoor Air Matrices included in the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006, updated May 2017. Decision matrices have only been developed for eight VOCs [1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, PCE, TCE, and vinyl chloride].

Of the VOCs detected, only PCE, TCE, carbon tetrachloride have established NYSDOH Soil Vapor/Indoor Air matrices. The remaining compounds with established decision matrices were not detected in the sub-slab soil vapor or indoor air samples. Matrix A is the applicable matrix for TCE and carbon tetrachloride and Matrix B is the applicable matrix for PCE. Tables 5, 6, and 7 show the comparison of sub-slab soil vapor to indoor air for carbon tetrachloride, PCE, and TCE, respectively.

**Table 5**  
**Comparison of Sub-Slab to Indoor Air Carbon Tetrachloride Concentrations and Matrix Results**

| Sample Location ID | Sub-Slab Soil Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Indoor Air Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Matrix Result     |
|--------------------|---|--|-------------------|
| MP-1/IA-1          | ND  | 0.37   | No further action |
| MP-2/IA-2          | ND  | 0.44   | No further action |
| MP-3/IA-3          | 0.33  | 0.34   | No further action |
| MP-4/IA-4          | 0.50  | 0.29   | No further action |
| MP-5/IA-5          | 0.59  | 0.39   | No further action |

Note: ND = Not Detected Above the Reporting Limit

**Table 6**  
**Comparison of Sub-Slab to Indoor Air PCE Concentrations and Matrix Results**

| Sample Location ID                                | Sub-Slab Soil Vapor Concentrations (µg/m <sup>3</sup> ) | Indoor Air Vapor Concentrations (µg/m <sup>3</sup> ) | Matrix Result     |
|---|---|--|-------------------|
| MP-1/IA-1   | ND  | ND   | No further action |
| MP-2/IA-2   | ND  | ND   | No further action |
| MP-3/IA-3   | 12  | ND   | No further action |
| MP-4/IA-4   | 2.2   | ND   | No further action |
| MP-5/IA-5   | 2.4   | ND   | No further action |
| Note: ND = Not Detected Above the Reporting Limit |   |  |                   |

**Table 7**  
**Comparison of Sub-Slab to Indoor Air TCE Concentrations and Matrix Results**

| Sample Location ID                                | Sub-Slab Soil Vapor Concentrations (µg/m <sup>3</sup> ) | Indoor Air Vapor Concentrations (µg/m <sup>3</sup> ) | Matrix Result     |
|---|---|--|-------------------|
| MP-1/IA-1   | ND  | ND   | No further action |
| MP-2/IA-2   | ND  | ND   | No further action |
| MP-3/IA-3   | 1.2   | ND   | No further action |
| MP-4/IA-4   | ND  | ND   | No further action |
| MP-5/IA-5   | ND  | ND   | No further action |
| Note: ND = Not Detected Above the Reporting Limit |   |  |                   |

When comparing the analytical results for TCE, PCE, and carbon tetrachloride in the sub-slab soil vapor samples and the co-located indoor air samples using NYSDOH Soil Vapor/Indoor Air Matrix A (the applicable matrix for TCE and carbon tetrachloride) and NYSDOH Soil Vapor/Indoor Air Matrix B (the applicable matrix for PCE), the matrix indicates a result of “no further action”.

The results of the SVIE were presented in the February 2019 SVIER). In an April 3, 2019 email, NYSDEC determined that the SSDS does not need to be activated and can remain in a passive state. The SVIER and a copy of the NYSDEC approval notification are included in Appendix B.

## **5.0 REMEDY PERFORMANCE EVALUATION AND MAINTENANCE**

The SMP describes the measures for evaluating the performance and effectiveness of the ICs and ECs. The annual Site-wide, composite cover system, and SSDS inspection were conducted in accordance with the SMP.

### **5.1 Site-Wide Inspection**

The Site-wide inspection was conducted on March 21, 2019 to ensure that all aspects of the remedy were in-place and effective. Based on the inspection results, all ICs and ECs remain in compliance with the SMP and remain effective and protective of human health and the environment. The Site-Wide Inspection Log is included in Appendix C.

### **5.2 Composite Cover System Inspection and Maintenance**

The composite cover system inspection was conducted concurrently with the Site-wide inspection on March 21, 2019. The composite cover system inspection consisted of checking all surficial components of the Site cover system, including the landscaped areas and concrete slabs, for holes, cracking and/or other signs of damage. During the inspection, all observed Site cover system components were found to be intact, with no signs of significant cracking or damage. No corrective actions were recommended. The Composite Cover System Inspection Logs and the Photographic Log documenting the inspection are included in Appendix D.

### **5.3 Sub-Slab Depressurization System (SSDS) Inspection**

As the SSDS operates as a passive system, monitoring of quantitative operational parameters was not required. The accessible components of the SSDS were inspected visually on March 21, 2019 during the annual Site-wide and composite cover system inspections, and is documented in the Composite Cover System Inspection Log, included in Appendix D. The above-grade components of the SSDS and the vapor monitoring points (VMPs) appeared to be in good condition with no visible signs of damage and/or breaches that would constitute a short circuit of the vapor pathway. No substantive issues were identified during the April 16, 2018 through April 16, 2019 reporting period. Visual inspection of the SSDS will continue to be conducted as part of the Site-wide and composite cover system inspections.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

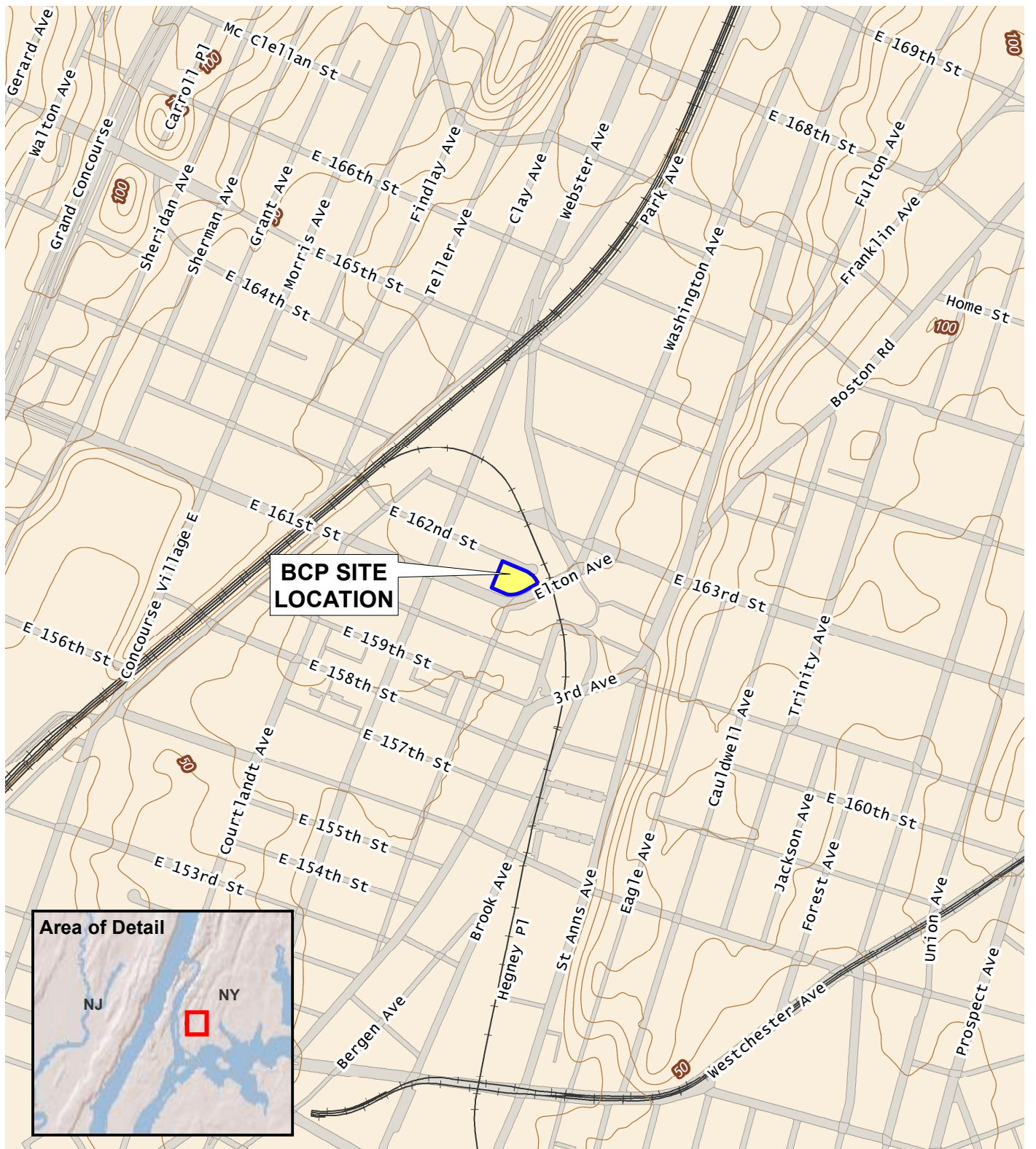
The purpose of this PRR is to document the Site management activities and findings associated with the ICs and ECs, and to certify that the controls are being implemented in accordance with the NYSDEC-approved SMP 12-month periodic review reporting period from April 16, 2018 to April 16, 2019. This PRR also documents work conducted in November 2018, which included an SVIE to determine the need for possible activation of the SSDS. The IC/EC Certification Form is provided in Appendix E.

Based on the inspections and data summarized in this report, the following conclusions were developed:

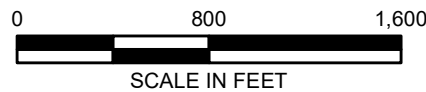
- The IC/EC Certification Form for the Site was completed based on results from Site monitoring and inspections described in this report. The monitoring and inspection findings indicate that all ICs/ECs at the Site remain in place and effective.
- The engineered composite cover system and SSDS components are in good condition.

In summary, the remedy remains effective and protective of human health and the environment and remains in compliance with the requirements set forth in the SMP. Additionally, based on the conclusions of the SVIER and concurrence by NYSDEC and NYSDOH, the SSDS will continue to operate in a passive state. Periodic inspections, including annual Site-wide, composite cover system and SSDS inspections will continue to be performed in accordance with the SMP.

## FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program 2018



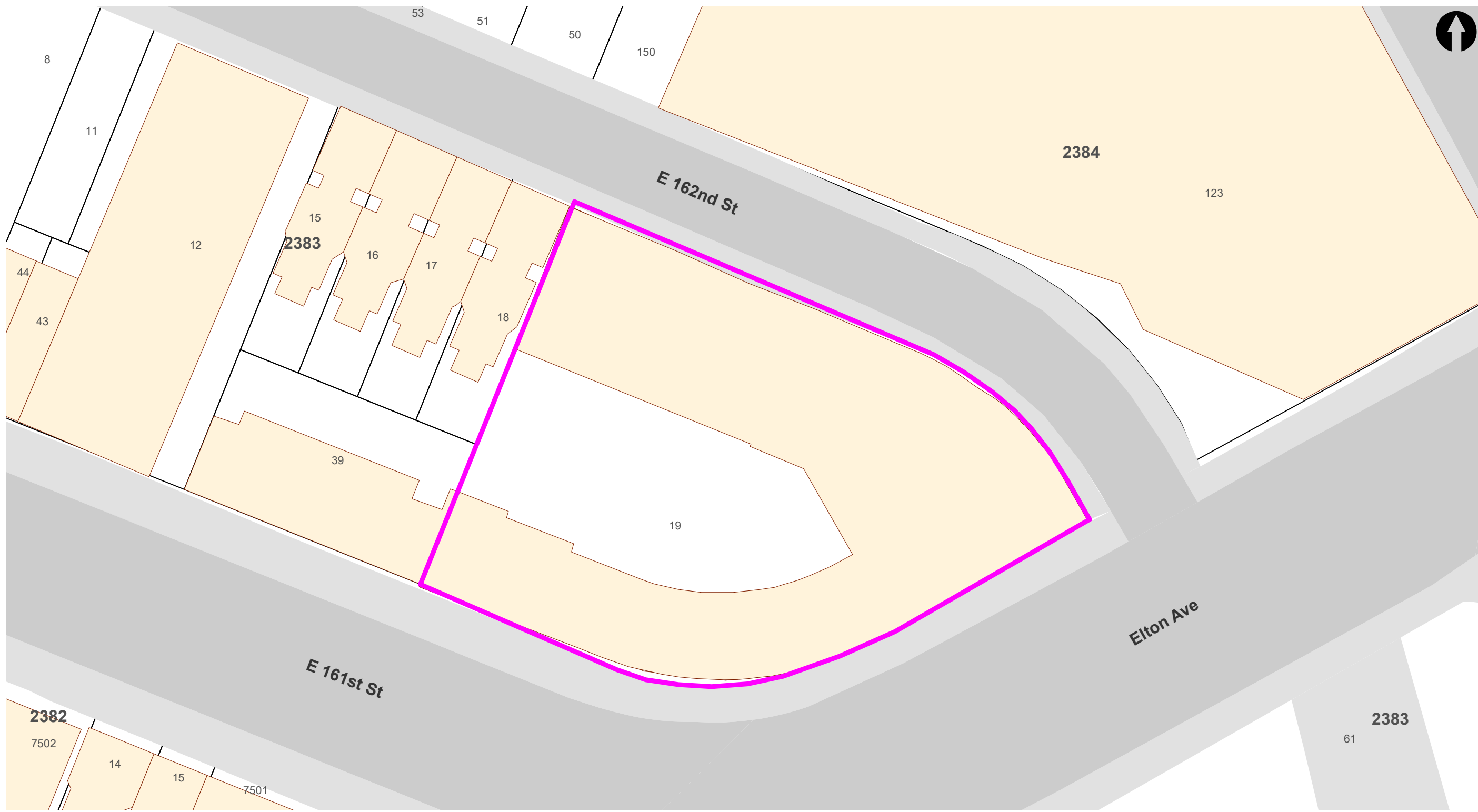
440 Park Avenue South, New York, NY 10016

**Elton Crossing (Melrose C Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
 Bronx, New York




**SITE LOCATION**

|             |                 |
|-------------|-----------------|
| DATE        | <b>4/1/2019</b> |
| PROJECT NO. | <b>11901</b>    |
| FIGURE      | <b>1</b>        |

©2019 AKRF W:\Projects\11901 - MELROSE SITE C FAMILY ELTONCROSSING\Technical\GIS and Graphics\Hermat\11901 Fig 2 Site Plan.PRR.mxd 4/2/2019 9:02:20 AM iszalus



**LEGEND**

-  BCP SITE BOUNDARY
-  BUILDING
-  LOT BOUNDARY AND TAX LOT NUMBER
- 2383** BLOCK NUMBER



Map Source:  
NYC DCP (NYC Dept. of City Planning) GIS database

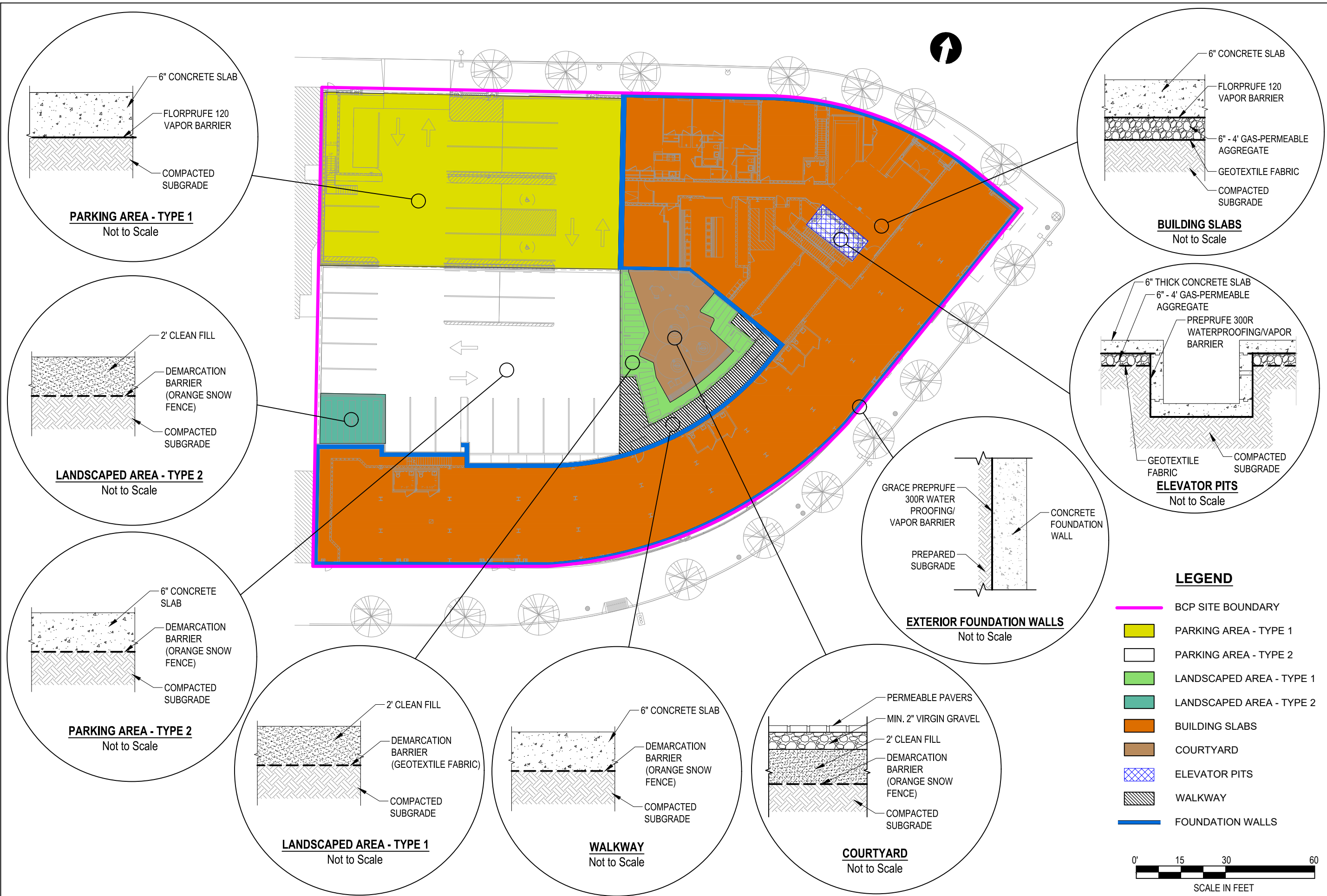


**Elton Corssing (Melrose C Family)  
432 East 162<sup>nd</sup> Street (899 Elton Avenue)  
Bronx, New York**

**SITE PLAN**

|                 |
|-----------------|
| DATE            |
| <b>4/2/2019</b> |
| PROJECT NO.     |
| <b>11901</b>    |
| FIGURE          |
| <b>2</b>        |





**LEGEND**

- BCP SITE BOUNDARY
- PARKING AREA - TYPE 1
- PARKING AREA - TYPE 2
- LANDSCAPED AREA - TYPE 1
- LANDSCAPED AREA - TYPE 2
- BUILDING SLABS
- COURTYARD
- ELEVATOR PITS
- WALKWAY
- FOUNDATION WALLS



**Elton Crossing (Melrose C Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
 Bronx, New York

**COMPOSITE COVER SYSTEM PLAN**



**APPENDIX A**  
**SUB-SLAB DEPRESSURIZATION SYSTEM AS-BUILT DRAWINGS**



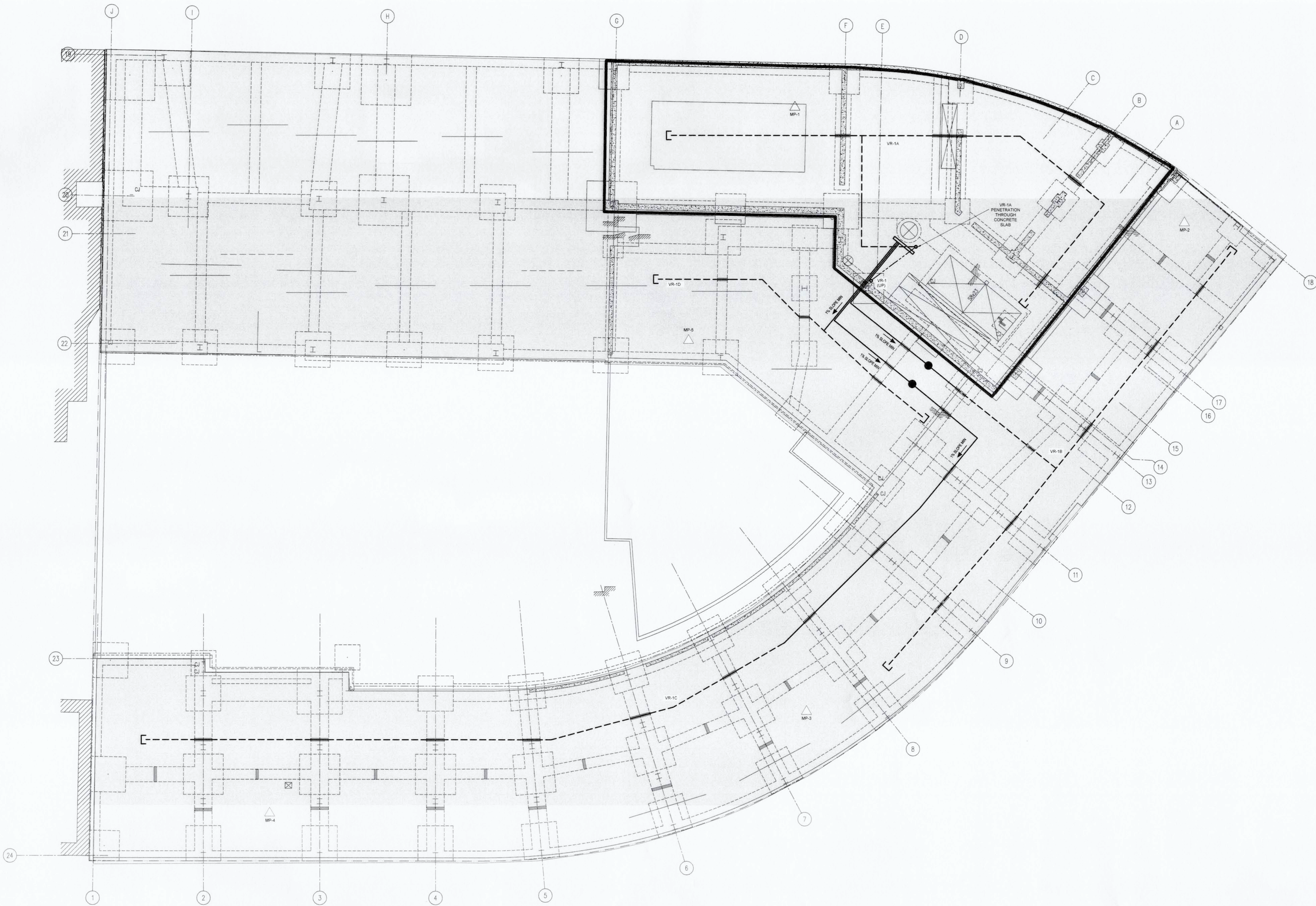


**OWNER**  
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 DEVELOPMENT FUND CORP.  
 902 BROADWAY, 13TH FLOOR  
 NEW YORK, NY 10010

**ENVIRONMENTAL ENGINEER**



440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016  
 (212) 696-0670 (PHONE)  
 (212) 726-0942 (FAX)

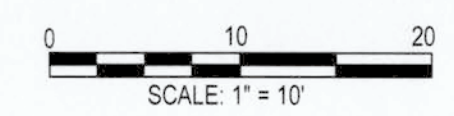


**LEGEND**

- LATERAL EXTENT OF GAS VAPOR BARRIER AND 6-INCH TO 4-FOOT THICK GAS PERMEABLE AGGREGATE (SEE DETAILS ON DRAWING ENV-101)
- VERTICAL RISER AND IDENTIFICATION NUMBER EXTENDING TO ROOF WITH EXHAUST STACK (SEE DETAIL 2 ON ENV-103)
- 4-INCH DIAMETER SCHEDULE 40 0.02-INCH SLOTTED PVC SSDS PIPE BENEATH FLOOR SLAB WITH END CAP (SEE DETAILS 2 AND 7 ON DRAWING ENV-101)
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SSDS PIPE BENEATH FLOOR SLAB
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SSDS PIPE ABOVE FLOOR SLAB
- MANIFOLD
- EXTENT OF PARTIAL CELLAR
- MONITORING POINT (SEE DETAIL 4 ON DRAWING ENV-101)
- PIPE SLEEVE (SEE DETAIL 9 ON DRAWING ENV-101)
- COMMUNICATION SLEEVE (SEE DETAIL 11 ON DRAWING ENV-101)
- CONDENSATE DRAIN (SEE DETAIL 5 ON ENV-101)
- CONCRETE FOUNDATION ELEMENT

**NOTE**

1. SOLID HORIZONTAL 4-INCH SCHEDULE 40 PVC PIPE SLOPED MINIMUM 1% UNIFORMLY TOWARDS THE SSDS SLOTTED PIPING OR CONDENSATE DRAIN.



MICHELLE LAPIN, P.E.

**REVISIONS**

| No.        | DATE             | DESCRIPTION |
|------------|------------------|-------------|
| 05/04/2015 | DEC SUBMISSION   |             |
| 06/12/2015 | DEC REVISIONS    |             |
| 06/24/2015 | DESIGN REVISIONS |             |
| 07/16/2015 | 100% CD          |             |
| 10/07/2016 | AS BUILT EDITS   |             |
| 05/22/2018 | AS BUILT EDITS   |             |
| 08/06/2018 | 2018 PRR         |             |

**PROJECT**

ELTON CROSSING  
 (MELROSE C FAMILY)  
 BRONX, NEW YORK

|                 |                  |
|-----------------|------------------|
| DRAWN BY<br>MRV | CHECKED BY<br>ML |
|-----------------|------------------|

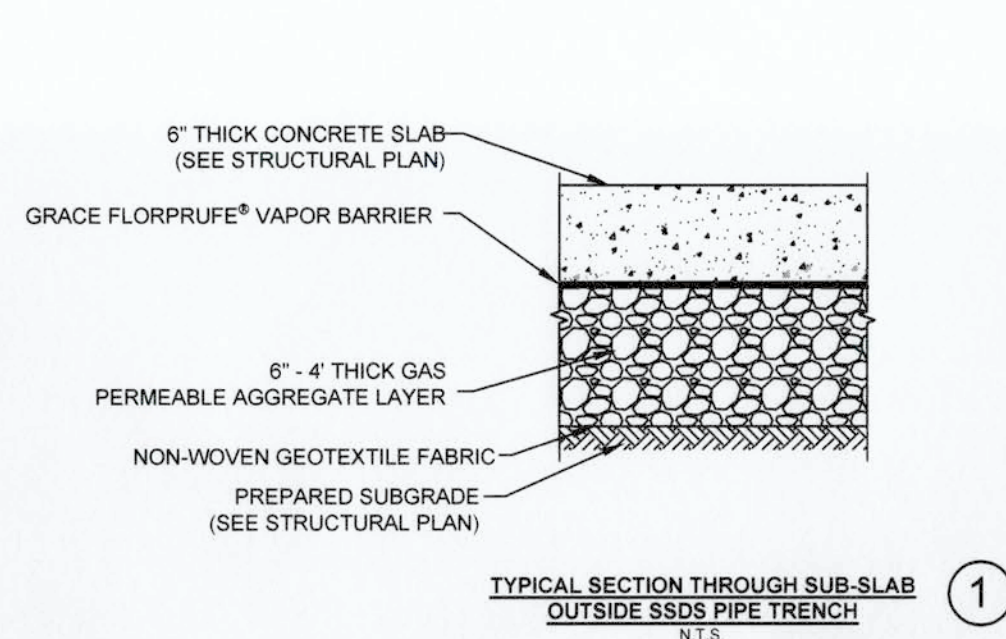
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SHEET TITLE  
**UNDERGROUND  
 SUB-SLAB  
 DEPRESSURIZATION  
 LAYOUT**

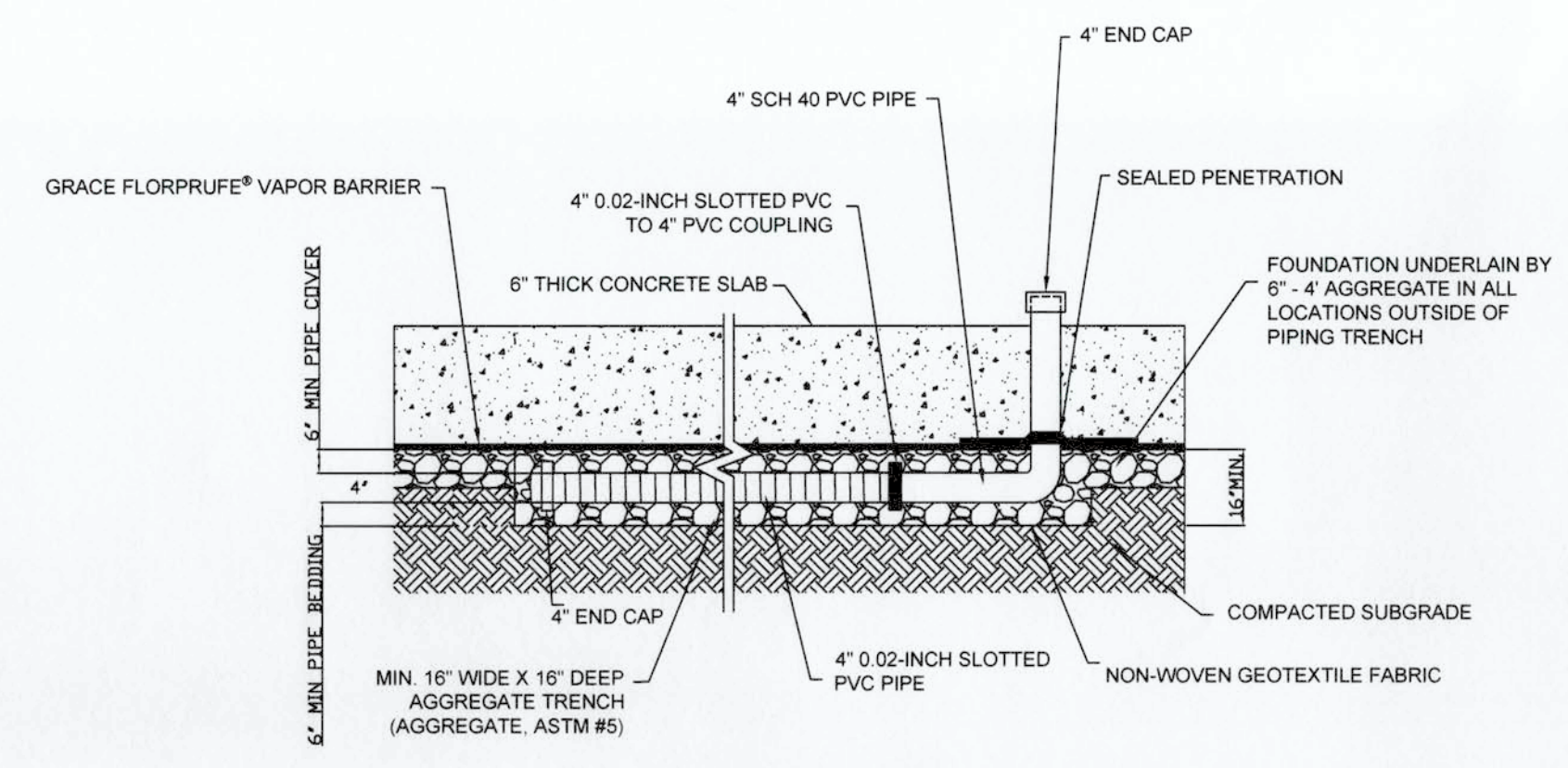
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**ENV-100**

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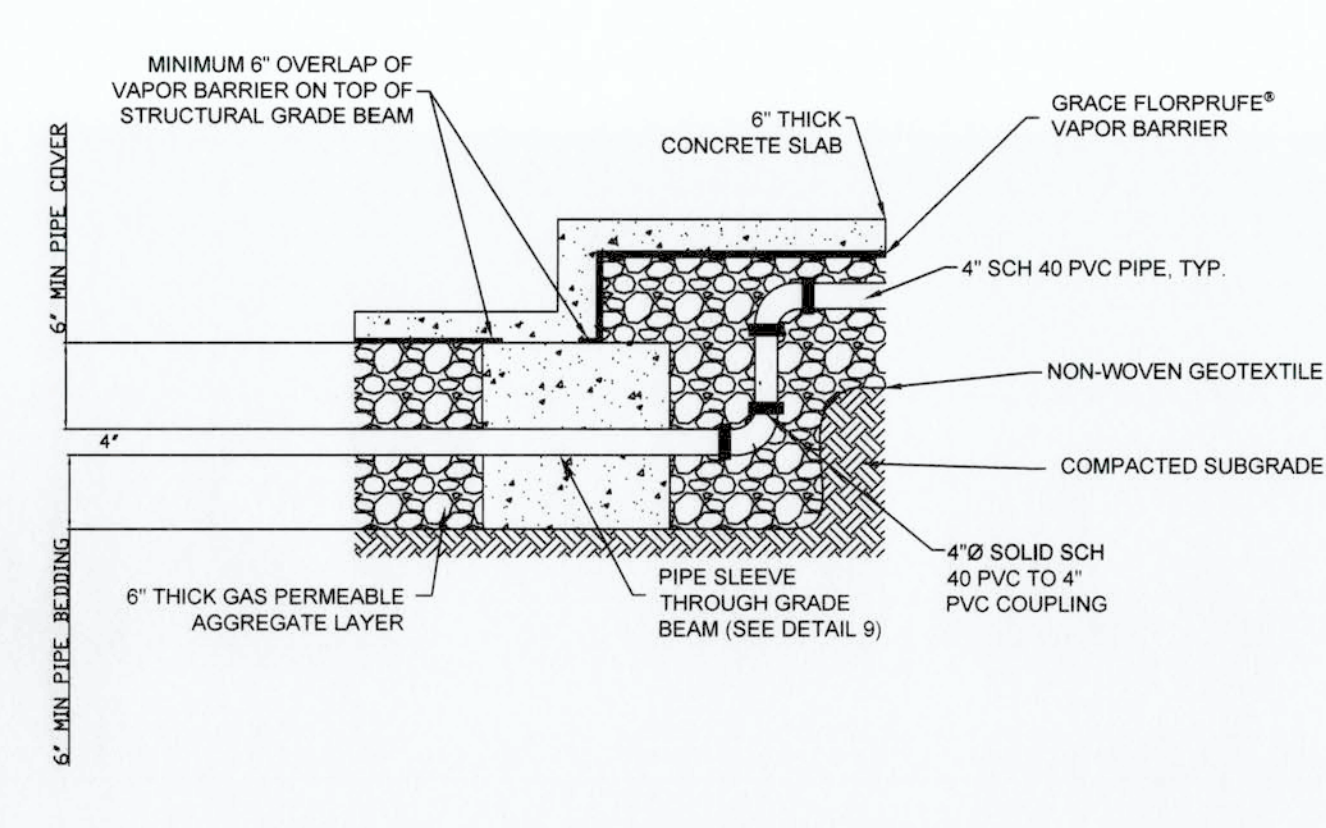




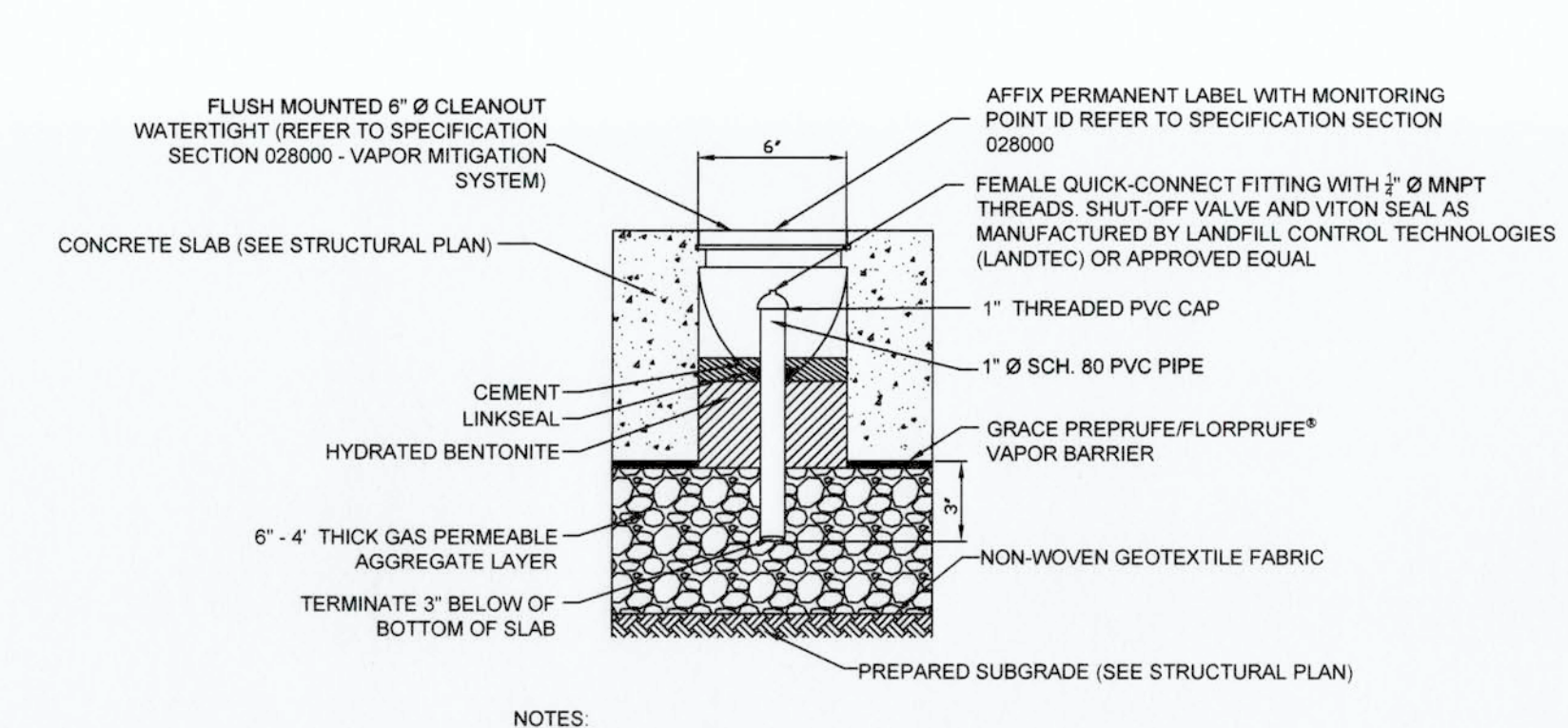
TYPICAL SECTION THROUGH SUB-SLAB OUTSIDE SSS PIPE TRENCH N.T.S. ①



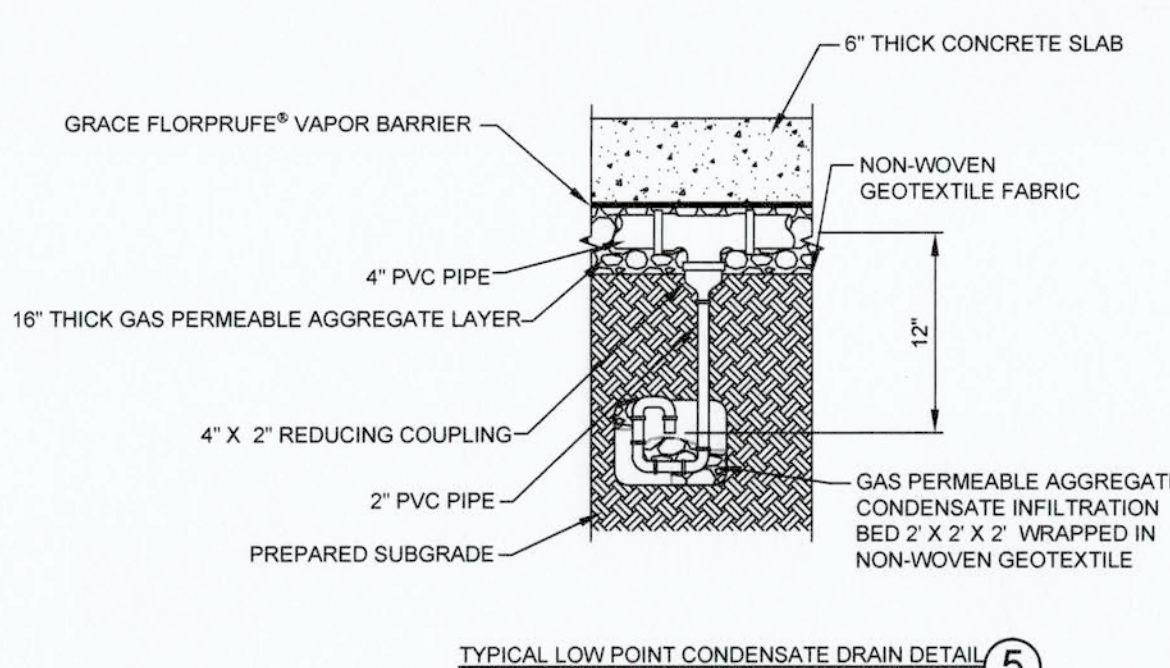
TYPICAL SSS PIPING PROFILE N.T.S. ②



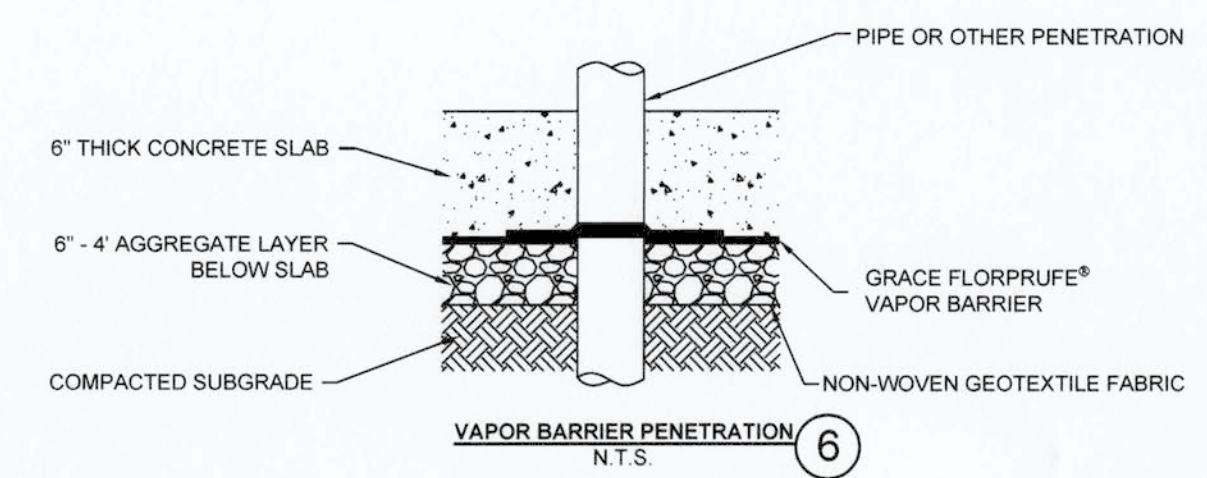
TYPICAL PROFILE AT ELEVATION CHANGE THROUGH GRADE BEAM N.T.S. ③



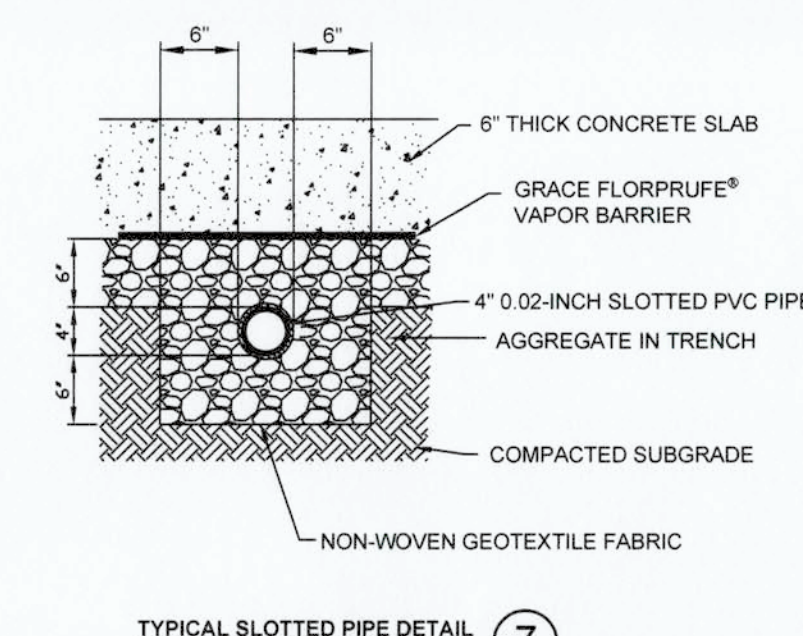
TYPICAL MONITORING POINT DETAIL N.T.S. ④



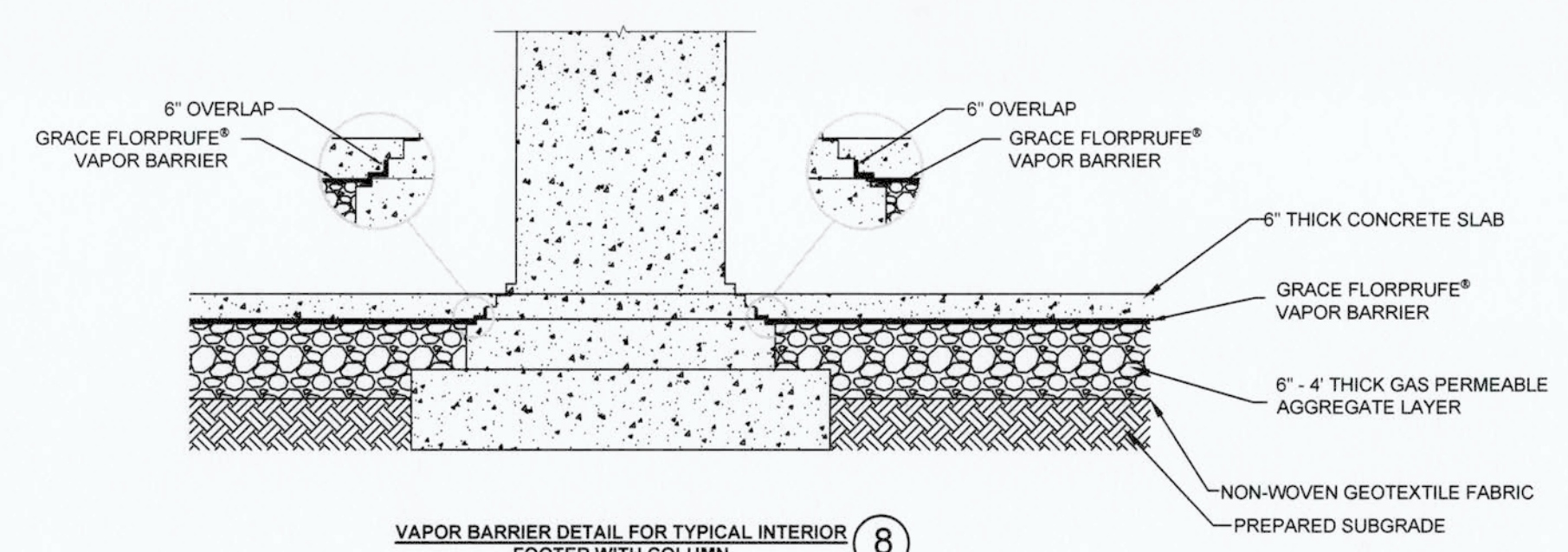
TYPICAL LOW POINT CONDENSATE DRAIN DETAIL N.T.S. ⑤



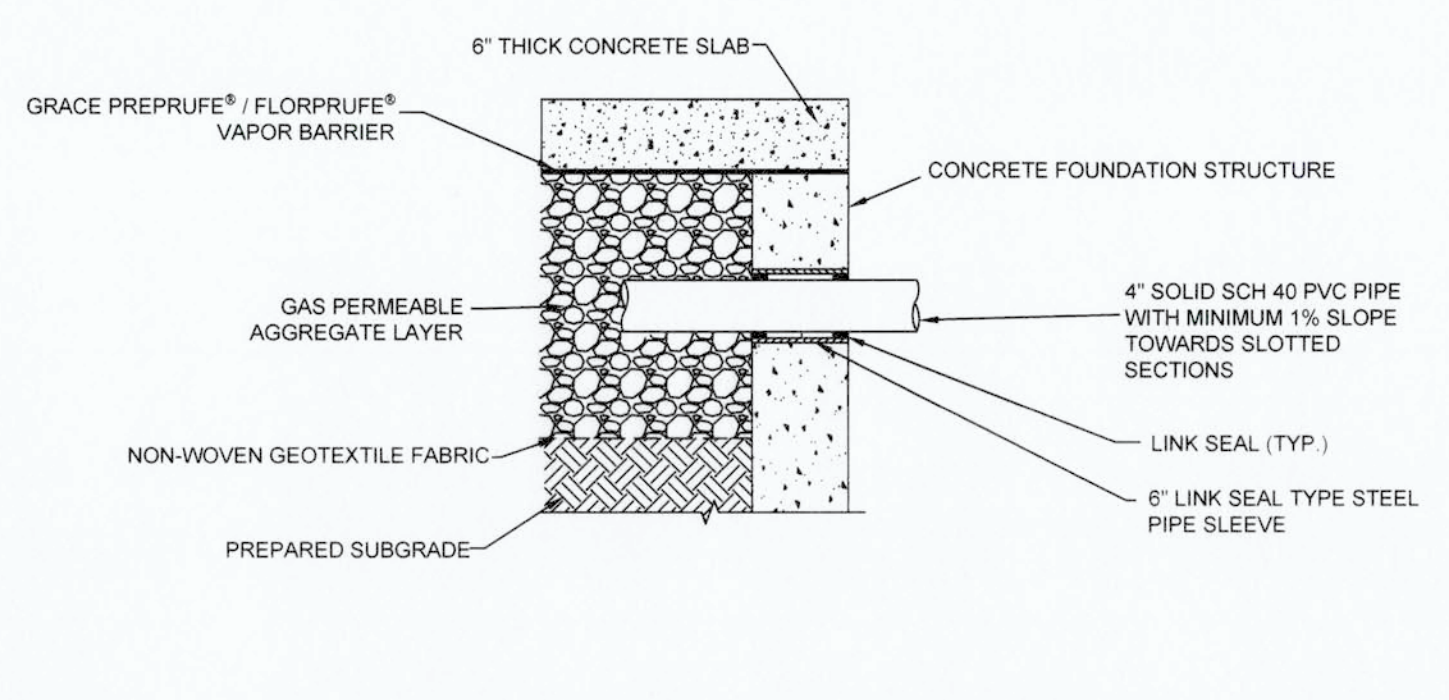
VAPOR BARRIER PENETRATION N.T.S. ⑥



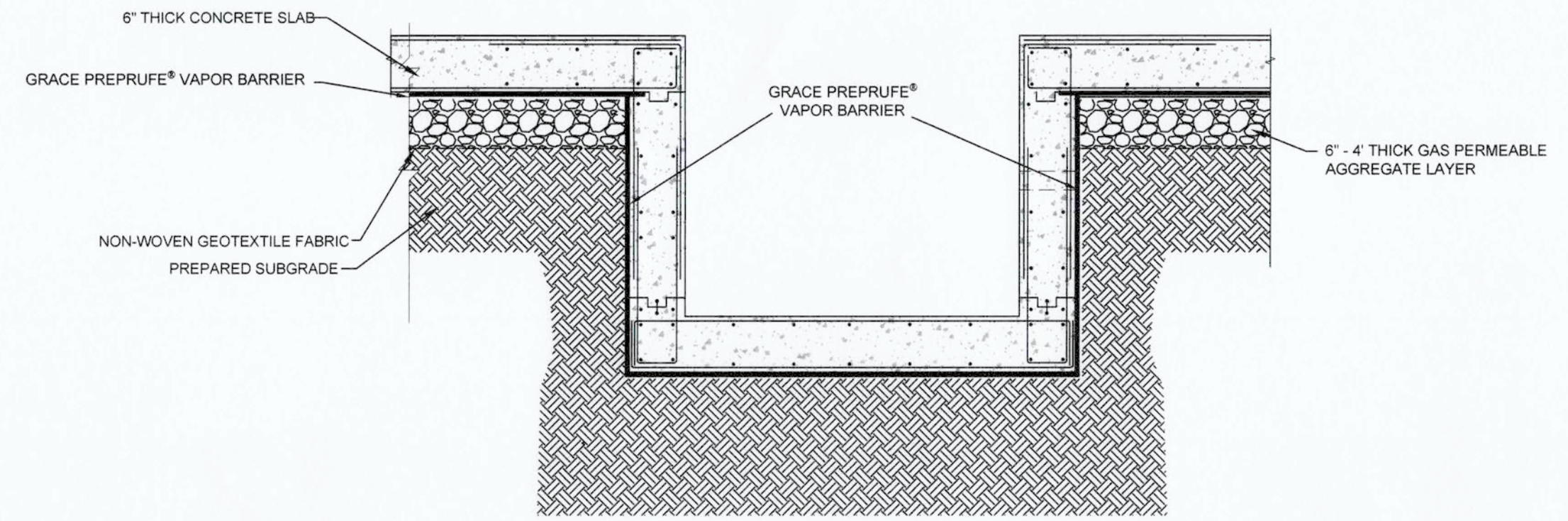
TYPICAL SLOTTED PIPE DETAIL N.T.S. ⑦



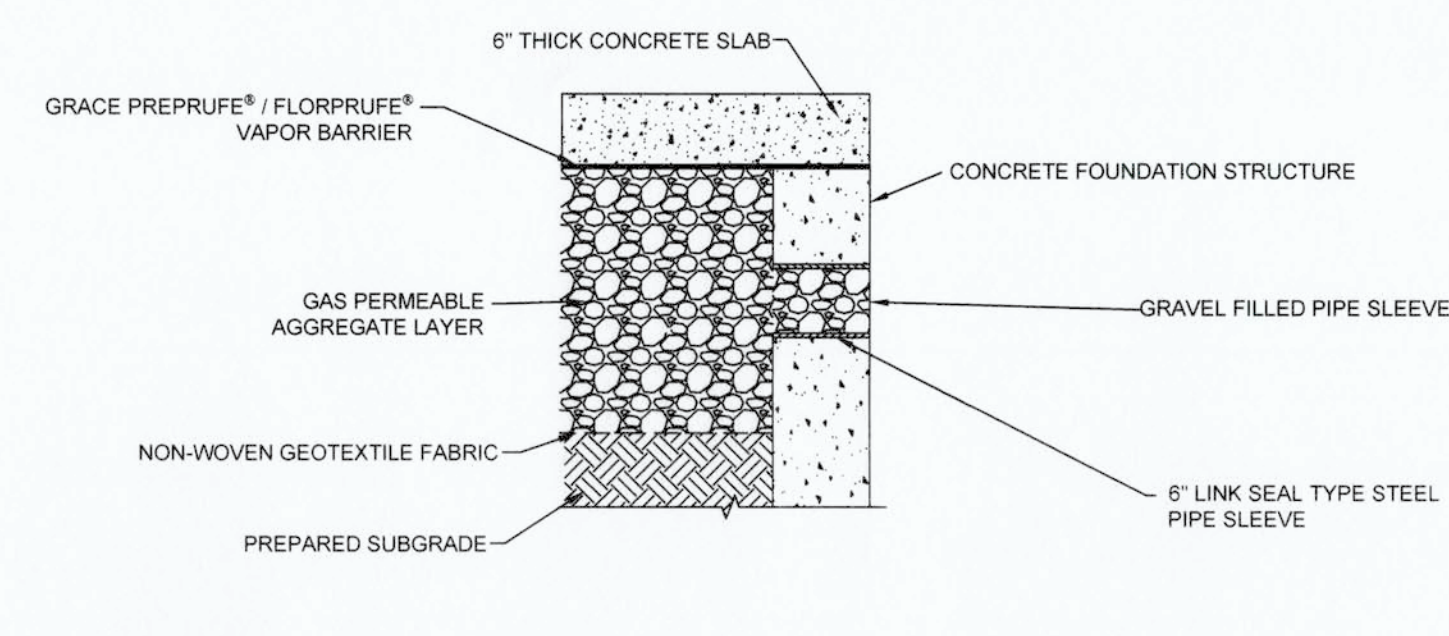
VAPOR BARRIER DETAIL FOR TYPICAL INTERIOR FOOTER WITH COLUMN N.T.S. ⑧



TYPICAL PIPE SLEEVE THROUGH FOUNDATION ELEMENT N.T.S. ⑨



VAPOR BARRIER DETAIL AT TYPICAL ELEVATOR / SUMP PIT / UTILITY PIT, ETC. N.T.S. ⑩



TYPICAL GRAVEL FILLED COMMUNICATION SLEEVE THROUGH FOUNDATION ELEMENT N.T.S. ⑪

**NOTE**

1. SOLID HORIZONTAL 4-INCH SCHEDULE 40 PVC PIPE SLOPED MINIMUM 1% UNIFORMLY TOWARDS THE SSS SLOTTED PIPING OR CONDENSATE DRAIN.

**OWNER**  
ELTON CROSSING HOUSING DEVELOPMENT FUND CORP.  
902 BROADWAY, 13TH FLOOR  
NEW YORK, NY 10010

**ENVIRONMENTAL ENGINEER**  
**AKRF**  
440 PARK AVENUE SOUTH  
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| 06/24/2015 | DESIGN REVISIONS |             |
| 07/16/2015 | 100% CD          |             |
| 10/07/2016 | AS BUILT EDITS   |             |
| 05/22/2018 | AS BUILT EDITS   |             |
| 08/08/2018 | 2018 PRR         |             |

**PROJECT**  
ELTON CROSSING (MELROSE C FAMILY)  
BRONX, NEW YORK

**DRAWN BY** MRV  
**CHECKED BY** ML

**SCALE** AS NOTED  
**DATE** 05/22/18

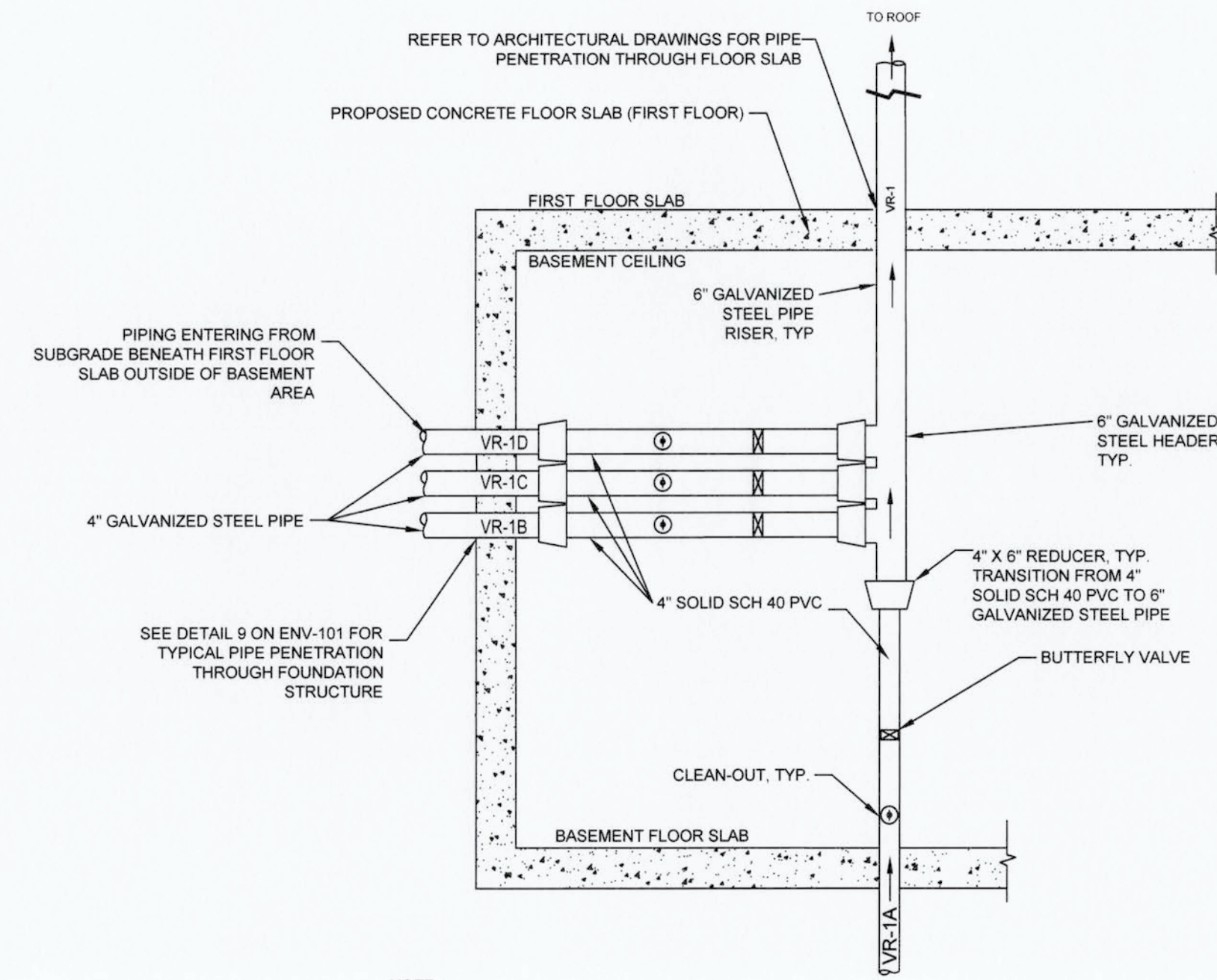
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UNDERGROUND SUB-SLAB DEPRESSURIZATION LAYOUT

**SHEET NO.**  
ENV-101



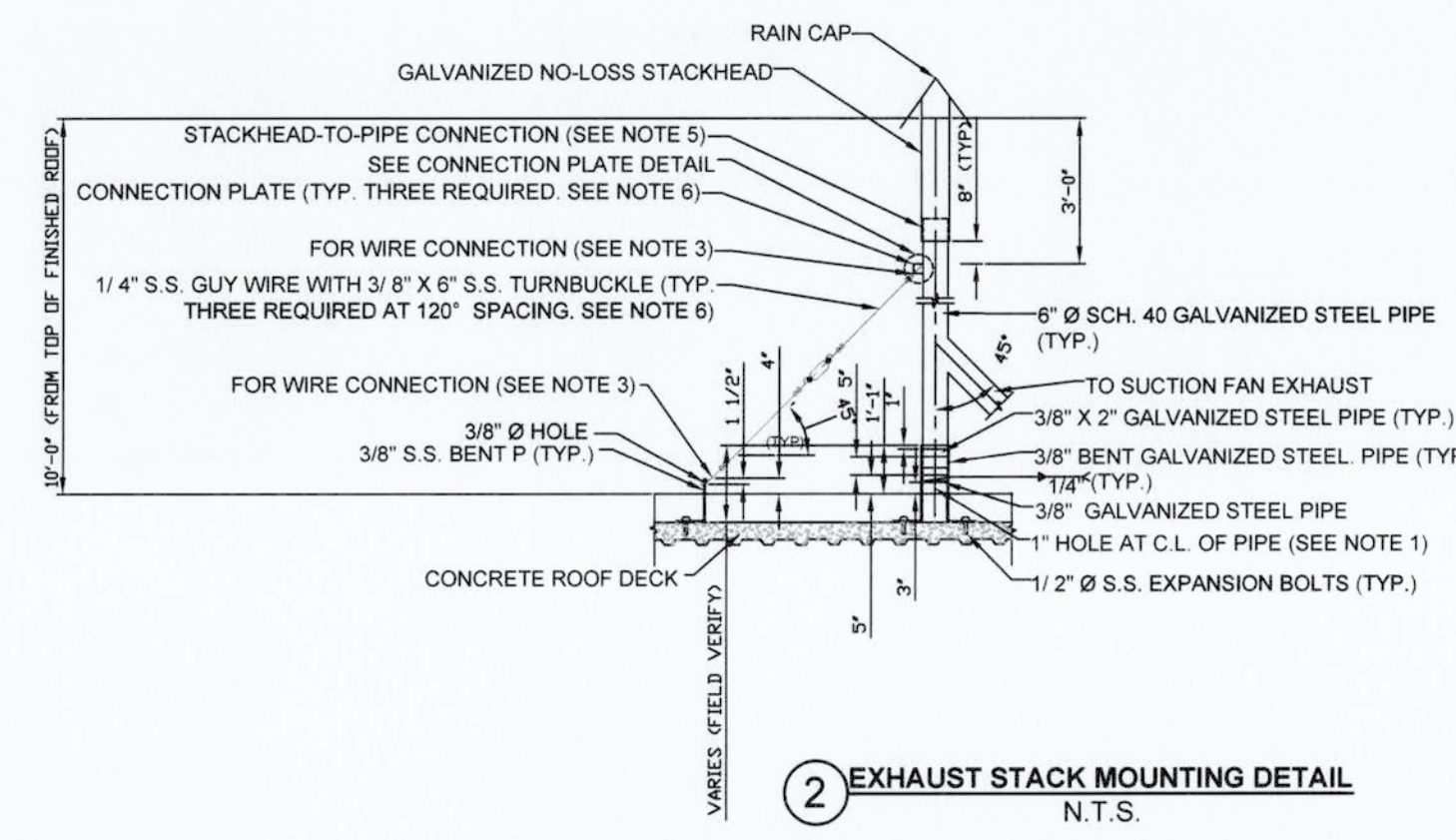






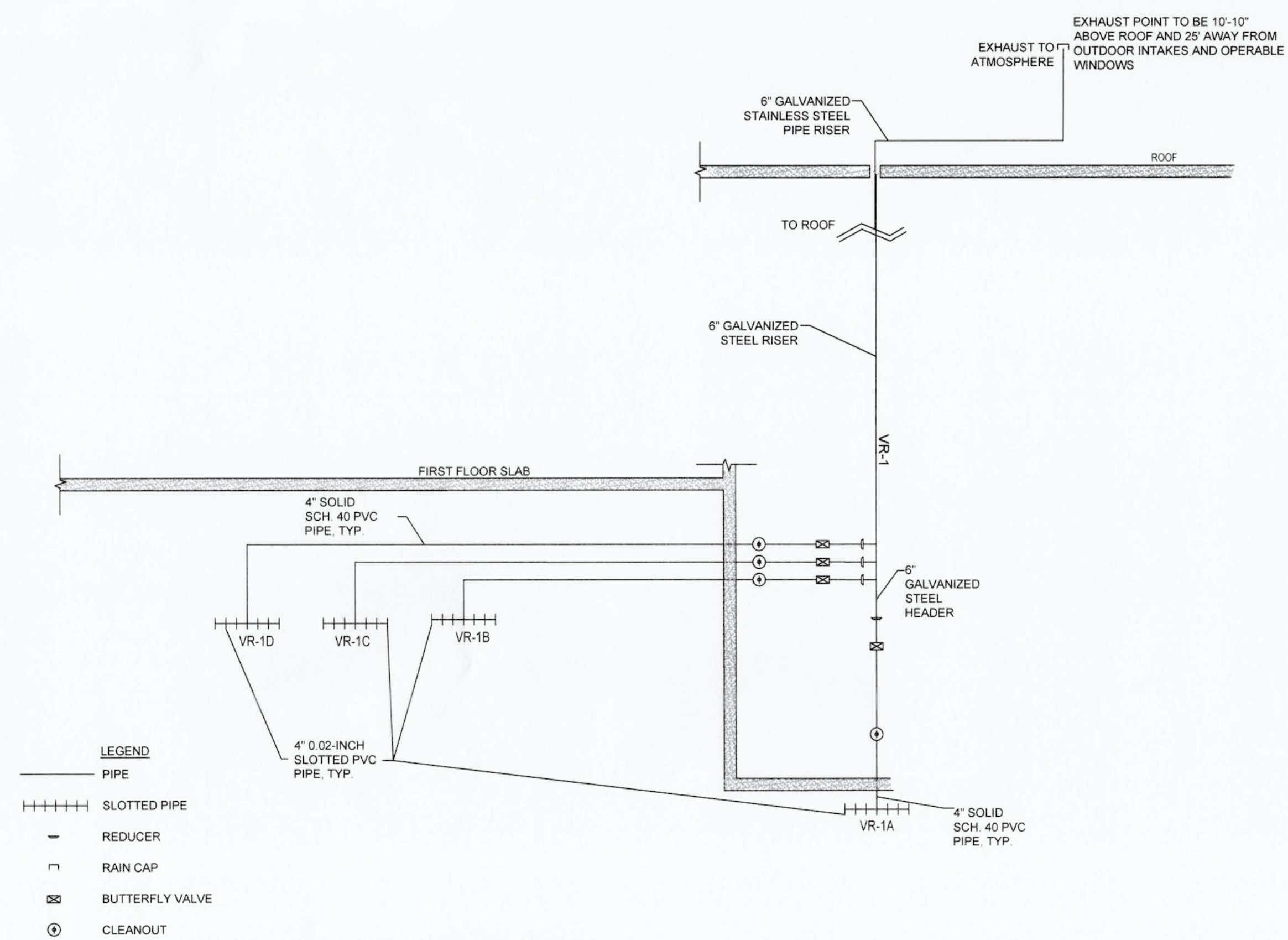
NOTE:  
 1. ALL HORIZONTAL PIPE RUNS (ABOVE GROUND AND UNDERGROUND) ARE PITCHED A MINIMUM OF 1/8-INCH VERTICAL PER FOOT HORIZONTAL (1% SLOPE) TOWARDS EACH SLOTTED VENTING PIPE OR TO CONDENSATE SUMP WITHIN THE SUB-SLAB WHEN UNDERGROUND PIPING COULD NOT BE SLOPED TOWARDS THE SLOTTED PIPES. THE SYSTEM WAS INSTALLED SUCH THAT NO PORTION WILL ALLOW EXCESS ACCUMULATION OF CONDENSATION

1 PIPING MANIFOLD DIAGRAM  
 N.T.S.



NOTES:  
 1. PROVIDE PITCH POCKET IN PLATE FOR DRAINAGE.  
 2. ADJUST DIMENSIONS TO PROVIDE A TIGHT FIT BETWEEN THE PIPE AND THE BEND.  
 3. 1/4" S.S. GUY WIRE SHALL BE LOOPED THROUGH THE 3/8" Ø HOLES AT THE TOP AND BOTTOM CONNECTION PLATES AND THROUGH THE EYE AT EACH END OF THE TURNBUCKLE. EACH CONNECTION SHALL BE SECURED BY TWO 1/4" S.S. WIRE ROPE CLAMPS.  
 4. ALL PLATES, GUY WIRES, TURNBUCKLES, AND CLIPS ARE ASTM A304 STAINLESS STEEL.  
 5. RISER PIPE IS GALVANIZED STEEL. REFER TO SPECIFICATION 0 28 000 VAPOR MITIGATION SYSTEM.  
 6. PROVIDE CONNECTION PER MANUFACTURER'S RECOMMENDATION OR USE (6) 1/4" ASTM A304 STAINLESS STEEL MACHINE SCREWS, DRILL AND TAP AS REQUIRED.  
 7. THREE GUY WIRE/CONNECTION PLATES ARE TO BE USED SPACED EVENLY AROUND THE CIRCUMFERENCE OF THE PIPE (120° SPACING).  
 8. PROVIDE LIGHTNING ROD AND GROUNDING WIRE AS PER ELECTRICAL REQUIREMENTS.  
 9. COORDINATE ALL ROOF PENETRATIONS FOR FAN SUPPORT WITH OTHER TRADES.

2 EXHAUST STACK MOUNTING DETAIL  
 N.T.S.



LEGEND:  
 + + + + + SLOTTED PIPE  
 — REDUCER  
 ▽ RAIN CAP  
 ∞ BUTTERFLY VALVE  
 ○ CLEANOUT

3 PROCESS FLOW DIAGRAM  
 N.T.S.

GENERAL NOTES:  
 1. DRAWING SHALL BE USED FOR SUB-SLAB DEPRESSURIZATION SYSTEM ONLY.  
 2. DESIGN DETAILS AND DRAWINGS ARE ADAPTED FROM EPA DOCUMENT EPA825/R-92/016.  
 3. SYSTEM INSTALLATION ADHERES TO OCTOBER 2006 FINAL GUIDANCE FOR EVALUATING SOIL VAPOR INTRUSION IN THE STATE OF NEW YORK PREPARED BY NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH), ALL APPLICABLE PORTIONS OF THE BUILDING CODE OF THE CITY OF NEW YORK, INCLUDING BUT NOT LIMITED TO 2008 NEW YORK CITY MECHANICAL CODE, CHAPTER 5, SECTION MC 512-SUBSLAB EXHAUST SYSTEMS, AS SUCH, POINT OF EXHAUST IS:  
 • AT LEAST 10 FEET ABOVE ROOF.  
 • AT LEAST 25 FEET FROM ANY ADJOINING OR ADJACENT BUILDINGS, OPERABLE WINDOWS, HVAC INTAKES, SUPPLY REGISTERS, OR ANY OTHER AIR INLETS.  
 4. VENT AND RISER PIPING INSTALLED IN ACCORDANCE WITH THE NEW YORK CITY PLUMBING CODE, INCLUDING, BUT NOT LIMITED TO THOSE REQUIREMENTS PERTAINING TO:  
 • PROTECTION OF SYSTEM COMPONENTS  
 • TRENCHING, EXCAVATION, AND BACKFILL  
 • STRUCTURAL SAFETY  
 • PIPING SUPPORT  
 • JOINTS  
 5. REFER TO DRAWINGS ENV-100, ENV-101, AND ENV-102 FOR SDDS PIPING LAYOUT, RISER, GAS VAPOR BARRIER AND GAS PERMEABLE AGGREGATE DETAILS AND SECTIONS.

OWNER  
 ELTON CROSSING HOUSING  
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| 06/12/2015 |      | DEC REVISIONS      |
| 06/24/2015 |      | DESIGN REVISIONS   |
| 07/16/2015 |      | 100% CD            |
| 10/07/2016 |      | AS BUILT EDITS     |
| 11/04/2016 |      | SMP/PER SUBMISSION |
| 08/06/2018 |      | 2016 PRR           |

PROJECT  
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 (MELROSE C FAMILY)  
 BRONX, NEW YORK

|                   |                  |
|-------------------|------------------|
| DRAWN BY<br>KH    | CHECKED BY<br>MG |
| SCALE<br>AS NOTED | DATE<br>06/24/15 |

SHEET TITLE  
 SDDS EQUIPMENT  
 SCHEDULE AND  
 DETAILS

SHEET NO.  
 ENV-103



**APPENDIX B**  
**SOIL VAPOR INTRUSION EVALUATION REPORT (SVIER) AND NYSDEC APPROVAL**



**MacCabe, Michael (DEC)**

to Dawn, me, Deborah ▾

Wed, Apr 3, 2:24 PM



Amy,

The February 2019 Soil Vapor Intrusion Evaluation Report for the new building at the Elton Crossing site documents the lack of intrusion of site-related contaminant into indoor air at concentrations that would require mitigation.

Therefore, based on the findings of the SVI Evaluation Report, it is deemed acceptable that the SSDS remain in its current passive state.

Thanks

**Michael D. MacCabe, P.E.**

Senior Environmental Engineer



Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233-7016

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[www.dec.ny.gov](http://www.dec.ny.gov)



# **ELTON CROSSING (MELROSE C FAMILY)**

**432 EAST 162<sup>ND</sup> STREET (899 ELTON AVENUE)**

**BRONX, NEW YORK**

---

## **Soil Vapor Intrusion Evaluation Report**

**NYSDEC BCP Site No: C203073**

**AKRF Project Number: 11901**

### **Prepared for:**

New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233

### **On Behalf Of:**

Elton Crossing Associates, L.P.; Elton Crossing Moderate Associates, LLC;  
and Elton Crossing LIHTC Associates, LLC  
902 Broadway, 13<sup>th</sup> Floor  
New York, New York 10010

### **Prepared by:**



**AKRF, Inc.**

440 Park Avenue South, 7<sup>th</sup> Floor  
New York, New York 10016  
212-696-0670

---

**FEBRUARY 2019**



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## IN-TEXT TABLES

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| In-Text Table 5 | – Comparison of Sub-Slab to Indoor Air TCE Concentrations and Matrix Results                  |
| In-Text Table 6 | – Comparison of Sub-Slab to Indoor Air PCE Concentrations and Matrix Results                  |

## ATTACHED TABLE

|                  |  |
|------------------|--|
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|------------------|--|

## FIGURES

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## APPENDICES

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## 1.0 INTRODUCTION

This Soil Vapor Intrusion Evaluation Report (SVIER) has been prepared by AKRF, Inc. (AKRF) on behalf of Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing Low-Income Housing Tax Credit (LIHTC) Associates, LLC (collectively, the Volunteer) for the property located at 432 East 162<sup>nd</sup> Street (899 Elton Avenue) in the Bronx, New York, hereafter referred to as the “Site”. The Site is identified on the New York City Tax Map as Bronx Borough Block 2383, Lot 19 (former Lots 19, 25, 27, 30, 35, 8900, and the formerly unmapped section of Melrose Crescent from East 161<sup>st</sup> Street to East 162<sup>nd</sup> Street). The Site is an approximately 0.695-acre parcel bounded by: East 162<sup>nd</sup> Street to the north, beyond which is a construction site (Melrose Commons Site B, aka Bronx Commons); East 161<sup>st</sup> Street to the south, beyond which are residential and commercial buildings; Elton Avenue, followed by Boricua College and the O’Neill Triangle Park, to the east; and residential buildings and open land to the west. A Site Location Map is provided as Figure 1 and a Site and Sample Location Plan is provided as Figure 2.

The Site was investigated and remediated under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) in accordance with Brownfield Cleanup Agreement (BCA) Index No. C203073-11-14, which was executed in November 2014 and amended in October 2016. The Site was remediated to Track 4 Site-Specific Soil Cleanup Objectives (SSSCOs) in accordance with the NYSDEC-approved June 2015 Remedial Action Work Plan (RAWP) and Decision Document (DD), as documented in the December 2016 Final Engineering Report (FER). After receipt of the Certificate of Completion (COC) in December 2016, the Site was redeveloped into an approximately 171,017-gross square foot residential building with retail on the first floor, at-grade parking, and a centrally-located exterior courtyard. Post-remedial Site monitoring requirements were established in the NYSDEC-approved December 2016 Site Management Plan (SMP). The inaugural Periodic Review Report (PRR), submitted to NYSDEC in August 2018 and approved in October 2018, documented and certified that the Site’s Engineering Controls (ECs), Institutional Controls (ICs), and all relevant BCP requirements during the inaugural 18-month reporting period from December 16, 2016 to April 16, 2018 were adhered to in accordance with the SMP.

This SVIER describes the sampling methodology, analytical results, and conclusions of the Soil Vapor Intrusion (SVI) Evaluation (SVIE) conducted at the Site. The results of the SVIE were used to determine whether the sub-slab depressurization system (SSDS), currently operating in a passive state, required activation. The SVIE included: a pre-sampling inspection; chemical inventory; and collection and laboratory analysis of five sub-slab soil vapor samples, five indoor air samples, and one ambient (outdoor) air sample. The work described in this SVIER was conducted in accordance with the NYSDEC-approved Vapor Intrusion Assessment Work Plan (VIWP), and the Quality Assurance Project Plan (QAPP) and Health and Safety Plan (HASP), included as Appendices J and H of the SMP, respectively.

## 2.0 PREVIOUS INVESTIGATIONS

Phase I Environmental Site Assessment (ESA) Report – 432-440 East 162<sup>nd</sup> Street, 446 East 162<sup>nd</sup> Street, 448-450 East 162<sup>nd</sup> Street, 903 Elton Avenue, 901 Elton Avenue, 899 Elton Avenue, 897 Elton Avenue, 433-435 East 161<sup>st</sup> Street, 429-431 East 161<sup>st</sup> Street, and 425 East 161<sup>st</sup> Street (Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, 37, 39, 8900, a section of Melrose Crescent between East 161<sup>st</sup> and East 162<sup>nd</sup> Streets, frontage on the north side of East 161<sup>st</sup> Street, west side of Melrose Crescent and a portion of old Lot 33, and part of unbuilt Melrose Crescent between East 162<sup>nd</sup> Street and East 161<sup>st</sup> Street comprising old lots 22, 23, 24, and a portion of old Lot 33 as well as part of former Lots 25, 30, and 31), Bronx, New York, Environmental Health Investigations, Inc. (EHI), February 2011

The Phase I ESA prepared by EHI identified several on- and off-site environmental conditions that may have affected the Site, including the following historic uses: a factory, metal works, automobile garage, glass works, freezer and oven mobile unit warehouse, glazer, plumbing and heating store, undertaker, beauty shop, dentist, and funeral home. The use of oils and other petroleum-containing fluids, acids, solvents, formaldehyde, phenol, methanol, and heavy metals are commonly associated with these historic uses. Suspect asbestos-containing material (ACM), lead-based paint (LBP), mercury-containing fluorescent light bulbs, and polychlorinated biphenyl (PCB)-containing fluorescent light ballasts were also identified in the former building on former Lot 19.

The surrounding area was historically mixed-use and included: a gasoline station, automotive repair facilities, and a paint store south of the Site along East 161<sup>st</sup> Street; a dry cleaner west of the Site along East 161<sup>st</sup> Street; and a BCP Site south of the Site across East 161<sup>st</sup> Street. The Phase I ESA also noted that, due to past residential development at the Site, there was a possibility that underground storage tanks (USTs) may have existed at the Site. However, no information regarding the status of former petroleum storage tanks on the Site was included in the Phase I ESA.

Inspection for Asbestos Containing Materials (ACM) – 440 East 162<sup>nd</sup> Street, Bronx, New York, ALC Environmental, Inc., (ALC) July 2011

ALC conducted an asbestos survey within the former Site building. A total of 57 bulk samples were collected and analyzed for asbestos. The findings of the asbestos survey identified chrysotile, a type of asbestos, within the former building in 9-inch by 9-inch vinyl floor tiles and mastic in the front room, 12-inch by 12-inch vinyl floor tile and mastic in the office area, roof membrane, and parapet roof mastic.

Geotechnical Investigation Report – East 161<sup>st</sup> Street and Elton Avenue, Bronx, New York, Tectonic Engineering and Surveying Consultants (Tectonic), February 2014

Tectonic conducted a geotechnical engineering investigation of the Site, which included the advancement of 46 borings and the excavation of 4 test pits. Two observation wells were installed within two of the borings. The report noted that one of the observation wells was dry. Unconsolidated fill was reportedly encountered at depths ranging from 2 to 14 feet below grade, generally consisting of sand with varying amounts of silt and gravel. The fill was underlain by native sand, silt, gravel, cobbles, and boulders, typically encountered between 4 and 13 feet below grade. At several locations, abundant brick, debris, and refuse were encountered at depths extending to bedrock, which was encountered between 7.5 and 23 feet below grade. Groundwater was observed within bedrock fractures at approximately 20.5 feet below grade; no surficial groundwater encountered.

*Sampling Protocol and Health and Safety Plan (HASP) – Melrose Commons Site C – Family, Tax Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, and 8900, and a section of Melrose Crescent, between East 161<sup>st</sup> Street and East 162<sup>nd</sup> Street, AKRF, February 2014*

AKRF prepared a Sampling Protocol and associated HASP for the Site. The Sampling Protocol proposed a geophysical survey across accessible areas of the Site, advancement of 13 soil borings with continuous sample collection and laboratory analysis of up to 3 soil samples from each boring, the installation of four 2-inch diameter groundwater monitoring wells with the collection and laboratory analysis of 4 groundwater samples, and the installation of 6 temporary soil vapor probes with the collection and laboratory analysis of 6 soil vapor samples. The HASP provided Site-specific health and safety measures during implementation of the investigation. The scope of the investigation was based on the previous reports and investigations for the Site.

*Remedial Investigation (RI) Report (RIR) – Melrose Commons Site C – Family, Block 2328, Lots 19, 25, 27, 29, 30, 31, 35, 8900, and section of Melrose Crescent between East 161<sup>st</sup> Street and East 162<sup>nd</sup> Street, AKRF, April 2014*

AKRF conducted an RI at the Site that included the advancement of 14 soil borings and installation of 6 temporary soil vapor probes, with collection and laboratory analysis of soil, soil vapor, and ambient air samples. Groundwater was not encountered during the investigation. The results of the soil sampling identified some elevated semivolatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) in soil; and some elevated concentrations of petroleum- and solvent-related volatile organic compounds (VOCs) in soil vapor. Based on an evaluation of the data and information from the investigation, AKRF concluded that contaminated soil and soil vapor were present at the Site. The elevated concentrations of xylenes, photoionization detector (PID) readings, staining, and petroleum odors were attributed to former fuel oil use at the Site. The SVOCs, PCBs, and metals concentrations and chemical-like odor observed in soil; and the VOCs in the soil vapor were attributed to the historic use at the Site and subsequent demolition of the former structures. The elevated levels of pesticides indicated the prior usage of pesticides at the Site and possible storage in the cellars of the former structures.

*Brownfield Cleanup Program (BCP) Application – Elton Crossing/Site C – Family, AKRF, August 2014*

AKRF prepared a BCP Application for the Site that summarized findings of previous investigations conducted and attributed soil and soil vapor contamination to the Site's historic uses. The BCP Application identified the threat of contamination as a major obstacle in redevelopment of the Site. The Site was entered into the BCP in November 2014.

*Citizen Participation Plan (CPP) – Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, December 2014*

AKRF prepared a CPP for the Site in December 2014, which provided details on citizen participation activities that occurred at several milestones during the project to encourage citizen involvement in decisions being made about the Site regarding their health.

*Supplemental Remedial Investigation Work Plan (SRIWP) – Melrose Commons Site C – Family/ Elton Crossing, Bronx, New York, AKRF, January 2015*

AKRF prepared an SRIWP and associated HASP for the Site. The SRIWP proposed the advancement of three soil borings with continuous sample collection and laboratory analysis of two soil samples per boring, the installation of three bedrock groundwater monitoring wells with collection and analysis of three groundwater samples, installation of one temporary soil vapor point with collection and laboratory analysis of one soil vapor sample and one ambient air sample, and collection of soil samples from two sump pits and one floor drain discovered within the western portion of the former Site building on former Lot 19.

The HASP provided Site-specific health and safety measures during implementation of the investigation. The scope of the investigation was based on the previous reports and investigations for the Site.

Phase I Environmental Site Assessment (ESA) Report, Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, April 2015

AKRF prepared a Phase I ESA Report for the Site. As noted in the report, the Site was developed historically as a factory, a metal works, an automobile garage, a glass works, a freezer and oven mobile unit warehouse, a glazer, a plumbing and heating store, an undertaker, a beauty shop, a dentist, and as a funeral home. A vent, possibly related to a current or former heating oil tank, was observed on the sidewalk north-adjacent to the former Site building on former Lot 19. Certificates of Occupancy were issued for cellar-level boiler rooms, including: former Lot 19 in 1945 and 1963, former Lot 29 in 1961, and former Lot 35 in 1958 and 1965. The regulatory database identified proximal current and/or historical facilities that may have affected the Site subsurface. Additionally, the Site was enrolled in the NYSDEC BCP (Site No. C203073). Subsurface investigations conducted at the Site under the BCP identified elevated levels of VOCs, SVOCs, metals, PCBs, and pesticides in soil and elevated levels of VOCs in soil vapor, which were attributed to the historic use of the Site. Other environmental concerns identified in the report included ACM throughout the former Site building interior and on exterior built-up roofing materials, which were reported to be in poor condition. At the time of the Site inspection, asbestos abatement was ongoing. The report noted that, based on the building's age, LBP may have been present. Painted surfaces were reported to be in fair to poor condition. Based on the building's age, fluorescent lighting fixtures and electrical equipment on the Site may have contained mercury and/or PCBs.

Based on the findings of the Phase I ESA Report, AKRF recommended implementation of a NYSDEC-approved RAWP under the BCP. AKRF also recommended the proper handling and disposal of any soil and debris excavated as part of redevelopment and that dewatering, if necessary, should be conducted in accordance with a New York City Department of Environmental Protection (NYCDEP) permit.

Supplemental Remedial Investigation (SRI) Report (SRIR) – Elton Crossing/Site C – Family, AKRF, June 2015

AKRF conducted an SRI at the Site in February and March 2015 in general accordance with the SRI Work Plan and HASP. The investigation included: collection and laboratory analysis of one soil sample from a floor drain within the building; advancement of three soil borings with continuous sample collection and laboratory analysis of ten soil samples; installation of three bedrock groundwater monitoring wells with collection and laboratory analysis of three groundwater samples; installation of one temporary soil vapor probe with collection and laboratory analysis of one soil vapor sample and one ambient air sample. The two sump pits within the former building were concrete-paved and could not be sampled. Bedrock was encountered between approximately 9 and 17 feet below grade and groundwater was encountered within bedrock between approximately 14.7 and 17.2 feet below grade. Based on Site-specific groundwater measurements collected during the SRI, groundwater flow was generally to the northwest; however, regional groundwater flow was noted to be generally to the south towards the Harlem River, located approximately 1.7 miles south of the Site. No surficial groundwater was encountered.

According to the report, several SVOCs, metals, PCBs, and pesticides were detected above applicable standards in the soil samples. Several VOCs and metals were detected above applicable standards in the groundwater samples, although the detected metals were typical of Bronx groundwater quality and not indicative of Site-specific concerns. Several petroleum- and solvent-related VOCs were detected at elevated concentrations.

Remedial Action Work Plan (RAWP) and Decision Document (DD) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, June 2015

AKRF prepared a RAWP for the Site. The RAWP outlined the remedial action objectives, which established procedures and cleanup objectives for the protection of public health and the environment. The RAWP established Track 4 SSSCOs and soil handling procedures, required the installation of a vapor barrier and sub-slab depressurization system (SSDS) to address potential vapor intrusion into the proposed building, a Site-wide composite cover system to prevent direct exposure to residual contamination in soil, and outlined a project schedule for construction. The RAWP included a HASP and CAMP for Site worker and community safety. The NYSDEC-issued DD described the selected remedy outlined in the RAWP.

Soil Waste Characterization Results (Reports 1 and 2) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, July 2015

AKRF conducted soil waste characterization sampling for disposal purposes. Thirteen test pits were excavated to varying depths based on proposed excavation depths across the Site. One soil sample was collected per approximately 800 cubic yards of soil proposed to be disposed of and analyzed for VOCs, SVOCs, PCBs, pesticides, Target Analyte List (TAL) and Toxic Characteristic Leaching Potential (TCLP) metals, hexavalent chromium, total cyanide, total sulfur, ignitability, reactivity, corrosivity, diesel range organics (DRO), gasoline range organics (GRO), and extractable petroleum hydrocarbons (EPH).

The analytical results were used to gain approval for off-site disposal at several facilities, including soil containing hazardous levels of lead on the northern portion of the Site.

Brownfield Cleanup Agreement (BCA) Amendment – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, October 2016

AKRF prepared a BCA Amendment Application for the Site in October 2016. The BCA Amendment Application documented: (1) the transfer of property ownership, (2) the addition of two Applicants - Elton Crossing Moderate Associates, LLC; and Elton Crossing LIHTC Associates, LLC, (3) the change of address, and (4) the merger of the former property lots into one lot to support the redevelopment plan. The BCA Amendment was executed on November 3, 2016.

Final Engineering Report (FER) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016

AKRF prepared an FER for the Site. The FER included: a summary of the Track 4 remedy; a description of the remedial actions performed; installation details for the vapor barrier, composite cover system, and SSDS; a summary of ICs; and a summary of deviations from the RAWP. The FER was approved by NYSDEC in December 2016.

Site Management Plan (SMP) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016

AKRF prepared an SMP for the Site. The SMP included Site-specific implementation procedures for the ICs and ECs required by the Environmental Easement (EE), including use restrictions and detailed media-specific maintenance requirements to ensure the ICs and ECs remain in-place and effective. The SMP was approved by NYSDEC in December 2016.

*Periodic Review Report (PRR) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, August 2018*

AKRF prepared the inaugural PRR for the Site. The PRR documented and certified that the Site’s ECs and ICs were implemented in accordance with the SMP and all relevant BCP requirements during the inaugural 18-month reporting period from December 16, 2016 to April 16, 2018. The PRR also documented additional work conducted from April 16, 2018 to June 13, 2018 under the SMP, including the installation and pressure testing of the SSDS aboveground piping and accessories, and the excavation and replacement of certain elements of the composite cover system. The PRR was approved by NYSDEC in October 2018.

*Vapor Intrusion Assessment Work Plan (VIWP) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, September 2018*

AKRF prepared a VIWP for the Site. The VIWP described the pre-sampling survey, soil vapor, indoor air, and ambient air sampling procedures, laboratory analysis, and reporting requirements that were used during the SVIE. The results of the SVIE, described in this document, were used to determine whether the SSDS, currently operating in a passive state, requires activation. The VIWP was approved by NYSDEC in October 2018.

### 3.0 SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)

Installation of an SSDS was required as part of the Track 4 remedy to mitigate the potential for soil vapor intrusion into the new Site building. The sub-slab components of the SSDS were installed between November 2015 and March 2016 and the aboveground piping and accessories were installed between January and June 2018 in conjunction with construction of the superstructure. The components of the SSDS include the following, which are shown on Figure 2:

- One 0.02-inch slotted, 4-inch diameter Schedule 40 polyvinyl chloride (PVC) pipe section (VR-1A) in the northeastern portion of the Site beneath the partial cellar;
- Three 0.02-inch slotted, 4-inch diameter Schedule 40 PVC pipe sections in the southern and southeastern portions of the Site beneath the slab-on-grade portions of the building (VR-1B, VR-1C, and VR-1D);
- One manifold, which combines the four 4-inch diameter galvanized steel aboveground pipes into one 6-inch diameter galvanized steel riser pipe (VR-1);
- One galvanized steel header, which extends from the manifold in the partial cellar to the roof ;
- A 10-foot, 10-inch tall, 6-inch diameter galvanized steel rooftop exhaust stack fitted with a rain cap;
- Communication and pipe sleeves through concrete foundation elements;
- Two sub-slab condensate drains; and
- Five vacuum monitoring points (MP-1 through MP-5).

The sub-slab SSDS piping runs within the approximately 5,000-square foot zone beneath the partial cellar in the northeastern portion of the Site and the approximately 12,000-square foot zone beneath the ground floor in the southern, southeastern, and eastern portions of the Site. Piping in these locations consists of 4-inch diameter PVC with 0.020-inch slots, with solid PVC piping installed between the slotted segments. A 6-inch to 4-foot thick, ¾-inch gas permeable aggregate (GPA) stone bedding was installed under, around, and above all sub-slab PVC piping (and under the vapor barrier) to promote passive movement of sub-slab soil vapor towards the slotted pipe segments.

Five vacuum monitoring points (MP-1 through MP-5) were installed at the perimeter of the treatment areas for sub-slab vapor collection and to monitor induced vacuum within the sub-slab if system activation becomes necessary. The monitoring points are constructed with 1-inch diameter solid Schedule 80 PVC pipe with a threaded PVC cap and a male quick connect fitting with ¼-inch threads and a shut off valve with a Viton seal. The PVC pipe terminates approximately three inches below the bottom of the concrete slab within the GPA. Penetrations through the concrete slab are air tight to prevent the potential migration of sub-slab vapors into the building. Each monitoring point is finished with a 6-inch diameter cast iron, flush-mount cleanout with an affixed metal tag engraved with the monitoring point identification number (i.e., MP-1 through MP-5).

The slotted PVC piping transitions to riser pipes VR-1A, VR-1B, VR-1C, and VR-1D within the telecommunications/SSDS manifold room in the partial cellar. Pipe material within the room consists of 4-inch diameter solid galvanized steel. All solid pipe segments (aboveground and belowground) are pitched a minimum of ⅛-inch vertical per one foot horizontal run (i.e., a minimum 1% slope) towards the slotted pipe sections or to the condensation drains to minimize accumulation of condensation within piping.

The four horizontal riser pipes (VR-1B, VR-1C, and VR-1D) and one vertical riser pipe (VR-1A) connect to a 6-inch diameter galvanized steel header within the telecommunications/SSDS cellar room, which manifolds the network into one 6-inch diameter galvanized steel vertical riser pipe (VR-1) extending to the roof of the 12-story building. The SSDS exhaust stack rises 10 feet, 10 inches high above the 10<sup>th</sup> floor roof and is fitted with a rain cap. The stack complies with requirements established in the 2008 NYC



Mechanical Code Section 512, “Subslab Soil Exhaust Systems”. SSDS as-built drawings are provided as Appendix A.

## 4.0 FIELD ACTIVITIES

On November 19 and 20, 2018, AKRF conducted an SVIE to determine whether the SSDS, which is currently operating in a passive state, should be activated to prevent contaminated vapors from entering the Site building. The SVIE included: a pre-sampling inspection and chemical inventory; and collection and laboratory analysis of five soil vapor air samples, five indoor air samples, and one ambient (outdoor) air sample. The SVIE was conducted in general accordance with the October 2018 NYSDEC-approved VIWP.

The sample locations are shown on Figure 2. A photographic log documenting the field activities is included as Appendix B and the New York State Department of Health (NYSDOH) Pre-Inspection Survey and chemical inventory is included as Appendix C.

### 4.1 Pre-Sampling Building Inspection and Chemical Inventory

On November 19, 2018, AKRF completed a pre-sampling inspection to document interior Site building characteristics, building occupancy, air flow patterns, utilities, building operations, chemical and maintenance product inventory, and any other known factors that may affect indoor air quality. AKRF personnel also visually inspected the building slabs to confirm their integrity. The building slabs were in good condition with no cracks or penetrations observed. One sump pump was observed in the telecommunications room of the partial cellar. No other apparent preferential pathways for vapor intrusion were observed. At the time of the inspection, the heating venting and air conditioning (HVAC) system was not in operation and air flow patterns were indiscernible. In addition, AKRF completed a pre-sampling questionnaire based on an interview with Mr. Cabral, who answered pertinent questions about the building's age, construction characteristics, HVAC, and factors that may potentially influence indoor air quality.

A ppbRAE™ PID capable of detecting VOCs in the parts per billion (ppb) range equipped with a 10.6 electron Volt (eV) lamp was used to field-screen the indoor air for the presence of organic vapors. Background PID readings up to 63 ppb were detected in the partial cellar, and PID readings up to 2,873 ppb were detected in the ground floor lobby. According to Mr. Ruddy Cabral of Briarwood Organization, Inc., construction superintendent for the Site, the lobby floors were cleaned immediately prior to inspection of the ground floor lobby, which is believed to account for the elevated PID readings in the lobby.

Relevant sections of a NYSDOH Indoor Air Quality Questionnaire and Chemical Inventory form were completed to document the results of the inspection. A copy of the form is included as Appendix C.

### 4.2 Soil Vapor, Indoor, and Ambient Air Sampling

Five soil vapor samples (MP-1\_20181120 through MP-4\_20181120, and MP-5\_20181119), five indoor air samples (IA-1\_20181120 through IA-5\_20181120), and one ambient air sample (AA-1\_20181120) were collected on November 19 and 20, 2018 from the locations shown on Figure 3. The soil vapor and indoor air samples were co-located and the ambient air sample was collected from the exterior courtyard. During sampling, the building remained sealed (all windows and doors closed), the HVAC was not operational, and the building was occupied by a minimal number of building staff on the ground and cellar floors. The samples were collected over an approximately 24-hour period, with the exception of sample MP-5\_20181119, which achieved pressure of -3.0 inches of mercury (in Hg) after approximately 2 hours.

Prior to sampling, each of the sub-slab soil vapor points (MP-1 through MP-5) were purged using a GilAir Plus air sampling pump. During purging, a shroud was placed over the sampling point and helium gas was introduced through a small hole in the shroud to saturate the atmosphere around

the sample port with helium gas. The purged vapors were collected in a 1-Liter Tedlar® bag and monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point, and to verify the adequacy of the seal. Helium was not detected at any of the installed soil vapor points indicating that all of the points passed the seal integrity tests. Purged vapors from the soil vapor samples were field-screened for VOCs using a calibrated PID. PID readings of 101 ppb, 56.4 ppb, 50.4 ppb, 19.9 ppb, and 5,093 ppb were detected at monitoring points MP-1, MP-2, MP-3, MP-4, and MP-5, respectively. After purging, the probe was connected via Teflon™ lined tubing to a laboratory-supplied 6-Liter SUMMA® canister equipped with a 24-hour flow controller set to restrict the flow to not more than 3.4 mL/min.

The indoor and ambient air samples were collected concurrently with the sub-slab soil vapor samples. The SUMMA canisters were placed approximately 3 to 5 feet above the floor to simulate the breathing zone. Sampling information was recorded on sampling logs, which are provided in Appendix D. Sample locations are shown on Figure 2. In-Text Table 1 summarizes sample locations and IDs.

**In-Text Table 1**  
**Soil Vapor, Indoor Air, and Ambient Air Sample Summary**

| Sample Location ID | Sample ID                       | Location                                   |
|--------------------|---------------------------------|--|
| MP-1/IA-1          | MP-1_20181120/<br>IA-1_20181120 | Partial Cellar, Electric Room              |
| MP-2/IA-2          | MP-2_20181120/<br>IA-2_20181120 | Ground Floor, Northeastern Storefront Area |
| MP-3/IA-3          | MP-3_20181120/<br>IA-3_20181120 | Ground Floor, Central Storefront Area      |
| MP-4/IA-4          | MP-4_20181120/<br>IA-4_20181120 | Ground Floor, Southwestern Storefront Area |
| MP-5/IA-5          | MP-5_20181119/<br>IA-5_20181120 | Ground Floor, Recreation Room              |
| AA-1               | AA-1_20181120                   | Ground Floor, Exterior Courtyard           |

## 5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The SUMMA<sup>®</sup> canisters were delivered with a chain-of-custody (COC) by courier to Test America Laboratories, Inc. (Test America) of South Burlington, Vermont, an Environmental Laboratory Approval Program (ELAP)-certified laboratory. The samples were analyzed for VOCs by Environmental Protection Agency (EPA) Method TO-15 with Category B deliverables. Third-party data validation was performed by L.A.B. Validation Corp. of Northport, New York and a data usability summary report (DUSR) was prepared. The laboratory analytical report is provided in Appendix E and the DUSR is provided in Appendix F.

Chemical analytical work has been performed under a quality assurance program that includes the following:

| Factor                         | Description  |
|--------------------------------|--|
| Quality Assurance Officer      | The chemical analytical QA/QC was directed by Deborah Shapiro, QEP of AKRF.  |
| Third Party Data Validator     | The third-party data validation was performed by Lori Beyer of L.A.B. Validation Corp.   |
| Chemical Analytical Laboratory | The chemical analytical laboratory used in this investigation was Test America, Inc. of South Burlington, Vermont, an ELAP-certified laboratory. |
| Chemical Analytical Methods    | Soil vapor, indoor air, and ambient air analytical method: VOCs by EPA Method TO-15  |

QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analyses for the SVIE. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results were biased, either by interfering compounds in the sample matrix or by laboratory techniques that may have introduced systematic or random errors to the analytical process.

The DUSR indicated that the Gas Chromatography/Mass Spectrometry (GC/MS) analytical methodology was acceptable for the analysis. The reported data agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

## 6.0 FINDINGS

Sub-slab soil vapor and indoor air sample analytical results were compared to the Soil Vapor/Indoor Air Matrices included in the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006, updated May 2017. Decision matrices have only been developed for eight VOCs [1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, PCE, TCE, and vinyl chloride].

### 6.1 Sub-Slab Soil Vapor Sample Analytical Results

Low concentrations of VOCs were detected in the sub-slab soil vapor samples. Solvent-related VOCs [including acetone, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, methyl ethyl ketone (MEK), methyl isobutyl ketone, trichlorofluoromethane, PCE, and TCE] were detected at individual concentrations up to 300 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) (chloroform) from a diluted analysis. Petroleum-related VOCs [including benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, 2-hexanone, n-heptane, and n-hexane] were detected at individual concentrations up to  $18 \mu\text{g}/\text{m}^3$ . Of the VOCs detected, only PCE, TCE, carbon tetrachloride have Soil Vapor/Indoor Air matrices. Detections of PCE, TCE, and carbon tetrachloride in sub-slab soil vapor are summarized in In-Text Table 2. Sample locations are shown on Figure 2 and a summary of all sub-slab detections are shown on Figure 3. Complete analytical results are shown in Attached Table 1.

**In-Text Table 2**  
**Sub-Slab Soil Vapor Sample Detections for Compounds with Soil Vapor/Indoor Air Matrices**

| Sample Location ID                                | MP-1                     | MP-2                     | MP-3                     | MP-4                     | MP-5                     |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Compound  | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| Carbon Tetrachloride                              | ND                       | ND                       | 0.33                     | 0.50                     | 0.59                     |
| Trichloroethylene (TCE)                           | ND                       | ND                       | 1.2                      | ND                       | ND                       |
| Tetrachloroethylene (PCE)                         | ND                       | ND                       | 12                       | 2.2                      | 2.4                      |
| Note: ND – Not Detected Above the Reporting Limit |                          |                          |                          |                          |                          |

### 6.2 Indoor Air Sample Analytical Results

Low concentrations of VOCs were detected in the indoor air samples. Solvent-related VOCs (including acetone, carbon tetrachloride, chloroform chloromethane, cyclohexane, dichlorodifluoromethane, MEK, methyl isobutyl ketone, and trichlorofluoromethane) were detected at individual concentrations up to  $310 \mu\text{g}/\text{m}^3$  (acetone) from a diluted analysis. VOCs typically associated with petroleum (including BTEX, 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, n-heptane, n-hexane, and styrene) were detected in the soil vapor samples at individual concentrations up to  $46 \mu\text{g}/\text{m}^3$ . The only compound detected with Soil Vapor/Indoor Air matrices was carbon tetrachloride. PCE and TCE were not detected in the indoor air samples. Detections of carbon tetrachloride in sub-slab soil vapor are summarized in In-Text Table 3. Sample locations are shown on Figure 2 and a summary of all indoor air detections are shown on Figure 3. Complete analytical results are shown in Attached Table 1.

**In-Text Table 3**  
**Indoor Air Sample Detections for Compounds with Soil Vapor/Indoor Air Matrices**

| Sample Location ID                                   | IA-1              | IA-2              | IA-3              | IA-4              | IA-5              |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Compound   | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> | µg/m <sup>3</sup> |
| Carbon Tetrachloride                                 | 0.37              | 0.44              | 0.34              | 0.29              | 0.39              |
| Note:<br>ND = Not Detected Above the Reporting Limit |                   |                   |                   |                   |                   |

**6.3 Ambient (Outdoor) Air Sample Analytical Results**

Low estimated concentrations of VOCs were detected in the ambient air sample. Detected VOCs included acetone, benzene, carbon tetrachloride, chloromethane, cyclohexane, dichlorodifluoromethane, MEK, n-heptane, n-hexane, toluene, and trichlorofluoromethane. Neither PCE nor TCE were detected in the ambient air sample. The greatest VOC concentration was acetone at an estimated concentration of 16 µg/m<sup>3</sup>. Sample locations are shown on Figure 2 and a summary of all ambient air detections are shown on Figure 3. Complete analytical results are included in Attached Table 1.

**6.4 Comparison of Soil Vapor/Indoor Air Analytical Results using NYSDOH Matrices**

Of the VOCs detected, only PCE, TCE, carbon tetrachloride have established NYSDOH Soil Vapor/Indoor Air matrices. The remaining compounds with established decision matrices were not detected in the sub-slab soil vapor or indoor air samples. Matrix A is the applicable matrix for TCE and carbon tetrachloride and Matrix B is the applicable matrix for PCE. In-text Table 4 shows the comparison of sub-slab soil vapor to indoor air for carbon tetrachloride. In-text Table 5 shows the comparison of sub-slab soil vapor to indoor air for TCE. In-text Table 6 shows the comparison of sub-slab soil vapor to indoor air for TCE.

**In-Text Table 4**  
**Comparison of Sub-Slab to Indoor Air Carbon Tetrachloride Concentrations and Matrix Results**

| Sample Location ID                                | Sub-Slab Soil Vapor Concentrations (µg/m <sup>3</sup> ) | Indoor Air Vapor Concentrations (µg/m <sup>3</sup> ) | Matrix Result     |
|---|---|--|-------------------|
| MP-1/IA-1   | ND  | 0.37   | No further action |
| MP-2/IA-2   | ND  | 0.44   | No further action |
| MP-3/IA-3   | 0.33  | 0.34   | No further action |
| MP-4/IA-4   | 0.50  | 0.29   | No further action |
| MP-5/IA-5   | 0.59  | 0.39   | No further action |
| Note: ND = Not Detected Above the Reporting Limit |   |  |                   |

**In-Text Table 5**  
**Comparison of Sub-Slab to Indoor Air TCE**  
**Concentrations and Matrix Results**

| Sample Location ID                                | Sub-Slab Soil Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Indoor Air Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Matrix Result     |
|---|---|--|-------------------|
| MP-1/IA-1   | ND  | ND   | No further action |
| MP-2/IA-2   | ND  | ND   | No further action |
| MP-3/IA-3   | 1.2   | ND   | No further action |
| MP-4/IA-4   | ND  | ND   | No further action |
| MP-5/IA-5   | ND  | ND   | No further action |
| Note: ND = Not Detected Above the Reporting Limit |   |  |                   |

**In-Text Table 6**  
**Comparison of Sub-Slab to Indoor Air PCE**  
**Concentrations and Matrix Results**

| Sample Location ID                                | Sub-Slab Soil Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Indoor Air Vapor Concentrations ( $\mu\text{g}/\text{m}^3$ ) | Matrix Result     |
|---|---|--|-------------------|
| MP-1/IA-1   | ND  | ND   | No further action |
| MP-2/IA-2   | ND  | ND   | No further action |
| MP-3/IA-3   | 12  | ND   | No further action |
| MP-4/IA-4   | 2.2   | ND   | No further action |
| MP-5/IA-5   | 2.4   | ND   | No further action |
| Note: ND = Not Detected Above the Reporting Limit |   |  |                   |

When comparing the analytical results for TCE, PCE, and carbon tetrachloride in the sub-slab soil vapor samples and the co-located indoor air samples using NYSDOH Soil Vapor/Indoor Air Matrix A (the applicable matrix for TCE and carbon tetrachloride) and NYSDOH Soil Vapor/Indoor Air Matrix B (the applicable matrix for PCE), the matrix indicates a result of “no further action”.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

AKRF conducted a Soil Vapor Intrusion Evaluation (SVIE) at the Elton Crossing (Melrose C Family) Site located at 432 East 162<sup>nd</sup> Street (899 Elton Avenue) in the Bronx, New York. The SVIE included: a pre-sampling inspection; chemical inventory; and collection and laboratory analysis of five sub-slab soil vapor samples, five indoor air samples, and one ambient (outdoor) air sample. The SVIE was conducted in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Vapor Intrusion Assessment Work Plan (VIWP). The results of the SVIE were used to determine whether the sub-slab depressurization system (SSDS), currently operating in a passive state, required activation.

Low level concentrations of volatile organic compounds (VOCs) were detected in the sub-slab soil vapor and indoor air samples. Sub-slab soil vapor and indoor air sample analytical results were compared to the Soil Vapor/Indoor Air Matrices included in the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006, updated May 2017. Decision matrices have only been developed for eight VOCs [1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, PCE, TCE, and vinyl chloride]. Of the VOCs with established decision matrices, only PCE, TCE, and carbon tetrachloride were detected in the sub-slab soil vapor samples.

When comparing the analytical results for TCE, PCE, and carbon tetrachloride in the sub-slab soil vapor samples and the co-located indoor air samples using NYSDOH Soil Vapor/Indoor Air Matrix A (the applicable matrix for TCE and carbon tetrachloride) and NYSDOH Soil Vapor/Indoor Air Matrix B (the applicable matrix for PCE), the matrix indicates a result of “no further action”. As “no further action” is warranted based on the sub-slab soil vapor and indoor air concentrations, AKRF recommends that the SSDS remain in a passive state and respectfully requests NYSDEC and NYSDOH concurrence.



## **8.0 REFERENCES**

1. Phase I ESA Report – 432-440 East 162<sup>nd</sup> Street, 446 East 162<sup>nd</sup> Street, 448-450 East 162<sup>nd</sup> Street, 903 Elton Avenue, 901 Elton Avenue, 899 Elton Avenue, 897 Elton Avenue, 433-435 East 161<sup>st</sup> Street, 429-431 East 161<sup>st</sup> Street, and 425 East 161<sup>st</sup> Street (Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, 37, 39, 8900, a section of Melrose Crescent between East 161<sup>st</sup> and East 162<sup>nd</sup> Streets, frontage on the north side of East 161<sup>st</sup> Street, west side of Melrose Crescent and a portion of old Lot 33, and part of unbuilt Melrose Crescent between East 162<sup>nd</sup> Street and East 161<sup>st</sup> Street comprising old lots 22, 23, 24, and a portion of old Lot 33 as well as part of former Lots 25, 30, and 31), Bronx, New York, EHI, Inc., February 2011.
2. Inspection for Asbestos Containing Materials (ACM) – 440 East 162<sup>nd</sup> Street, Bronx, New York, ALC Environmental, Inc., July 2011.
3. Geotechnical Investigation Report – East 161<sup>st</sup> Street and Elton Avenue, Bronx, New York, Tectonic Engineering and Surveying Consultants, February 2014.
4. Sampling Protocol and Health and Safety Plan (HASP) – Melrose Commons Site C – Family, Tax Block 2383, Lots 19, 25, 27, 29, 30, 31, 35, and 8900, and a section of Melrose Crescent, between East 161<sup>st</sup> Street and East 162<sup>nd</sup> Street, AKRF, February 2014.
5. Remedial Investigation (RI) Report – Melrose Commons Site C – Family, Block 2328, Lots 19, 25, 27, 29, 30, 31, 35, 8900, and section of Melrose Crescent between East 161<sup>st</sup> Street and East 162<sup>nd</sup> Street, AKRF, April 2014.
6. Brownfield Cleanup Program (BCP) Application – Elton Crossing/Site C – Family, AKRF, August 2014.
7. Citizen Participation Plan (CPP) – Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, December 2014.
8. Supplemental Remedial Investigation Work Plan (SRIWP) – Melrose Commons Site C – Family/ Elton Crossing, Bronx, New York, AKRF, January 2015.
9. Phase I Environmental Site Assessment (ESA), Elton Crossing (Melrose C Family), 899 Elton Avenue, Bronx, New York, AKRF, April 2015.
10. Supplemental Remedial Investigation (SRI) Report – Elton Crossing/Site C – Family, AKRF, June 2015.
11. Remedial Action Work Plan (RAWP) and Decision Document (DD) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, June 2015.
12. Soil Waste Characterization Results (Reports 1 and 2) – Elton Crossing/ Site C – Family, 899 Elton Avenue, Bronx, New York, AKRF, July 2015.
13. Brownfield Cleanup Agreement (BCA) Amendment Application – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, October 2016.
14. Final Engineering Report (FER) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016.
15. Site Management Plan (SMP) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, December 2016.
16. Periodic Review Report (PRR) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, August 2018.

17. Vapor Intrusion Assessment Work Plan (VIWP) – Elton Crossing (Melrose C Family), 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York, AKRF, September 2018.
18. Data Usability Summary Report (DUSR) – Data Validation Summary for Sub-Slab, Indoor/Ambient Air Samples Collected November 19, 2018 through November 20, 2018, Elton Crossing, Bronx, New York, L.A.B. Validation Corp., December 22, 2018.
19. NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New Table 3.3 Matrix A, Matrix B, and Matrix C tables of the Final Guidance in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated May 2017.

## **TABLES**

Table 1  
 Elton Crossing (Melrose C Family)  
 432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, NY  
 Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results

| AKRF Sample ID<br>Laboratory Sample ID<br>Date Sampled<br>Unit | NYSDOH Soil<br>Vapor<br>Intrusion<br>Matrix Values | AA-1_20181120             | IA-1_20181120             | IA-1_20181120             | IA-2_20181120             | IA-3_20181120             | IA-4_20181120             | IA-5_20181120             | IA-5_20181120             | MP-1_20181120             | MP-2_20181120             | MP-3_20181120             | MP-4_20181120              | MP-5_20181119              |
|--|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|----------------------------|
|  |  | 200-46353-1<br>11/20/2018 | 200-46353-2<br>11/20/2018 | 200-46353-2<br>11/20/2018 | 200-46353-3<br>11/20/2018 | 200-46353-4<br>11/20/2018 | 200-46353-5<br>11/20/2018 | 200-46353-6<br>11/20/2018 | 200-46353-6<br>11/20/2018 | 200-46353-7<br>11/20/2018 | 200-46353-8<br>11/20/2018 | 200-46353-9<br>11/20/2018 | 200-46353-10<br>11/20/2018 | 200-46353-11<br>11/20/2018 |
|  |  | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>         | ug/m <sup>3</sup>          | ug/m <sup>3</sup>          |
| Dilution Factor  |  | 1                         | 1                         | 10                        | 1                         | 1                         | 1                         | 1                         | 4                         | 50                        | 20                        | 1                         | 1                          | 1                          |
| 1,1,1-Trichloroethane  | 1,000  | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| 1,1,2,2-Tetrachloroethane                                      | NS   | 1.4 UJ                    | 1.4 U                     | NA                        | 1.4 U                     | 1.4 U                     | 1.4 U                     | 1.4 U                     | NA                        | 69 UJ                     | 27 U                      | 1.4 U                     | 1.4 U                      | 1.4 U                      |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                          | NS   | 1.5 UJ                    | 1.5 U                     | NA                        | 1.5 U                     | 1.5 U                     | 1.5 U                     | 1.5 U                     | NA                        | 77 UJ                     | 31 U                      | 1.5 U                     | 1.5 U                      | 1.5 U                      |
| 1,1,2-Trichloroethane  | NS   | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| 1,1-Dichloroethane   | NS   | 0.81 UJ                   | 0.81 U                    | NA                        | 0.81 U                    | 0.81 U                    | 0.81 U                    | 0.81 U                    | NA                        | 40 UJ                     | 16 U                      | 0.81 U                    | 0.81 U                     | 0.81 U                     |
| 1,1-Dichloroethene   | 60   | 0.14 UJ                   | 0.14 U                    | NA                        | 0.14 U                    | 0.14 U                    | 0.14 U                    | 0.14 U                    | NA                        | 7 UJ                      | 2.8 U                     | 0.14 U                    | 0.14 U                     | 0.14 U                     |
| 1,2,4-Trichlorobenzene   | NS   | 3.7 UJ                    | 3.7 U                     | NA                        | 3.7 U                     | 3.7 U                     | 3.7 U                     | 3.7 U                     | NA                        | 190 UJ                    | 74 U                      | 3.7 U                     | 3.7 U                      | 3.7 U                      |
| 1,2,4-Trimethylbenzene   | NS   | 0.98 UJ                   | 0.98 U                    | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 49 UJ                     | 20 U                      | 2                         | 1.4                        | 0.98 U                     |
| 1,2-Dibromoethane (Ethylene Dibromide)                         | NS   | 1.5 UJ                    | 1.5 U                     | NA                        | 1.5 U                     | 1.5 U                     | 1.5 U                     | 1.5 U                     | NA                        | 77 UJ                     | 31 U                      | 1.5 U                     | 1.5 U                      | 1.5 U                      |
| 1,2-Dichlorobenzene  | NS   | 1.2 UJ                    | 1.2 U                     | NA                        | 1.2 U                     | 1.2 U                     | 1.2 U                     | 1.2 U                     | NA                        | 60 UJ                     | 24 U                      | 1.2 U                     | 1.2 U                      | 1.2 U                      |
| 1,2-Dichloroethane   | NS   | 0.81 UJ                   | 0.81 U                    | NA                        | 0.81 U                    | 0.81 U                    | 0.81 U                    | 0.81 U                    | NA                        | 40 UJ                     | 16 U                      | 0.81 U                    | 0.81 U                     | 0.81 U                     |
| 1,2-Dichloropropane  | NS   | 0.92 UJ                   | 0.92 U                    | NA                        | 0.92 U                    | 0.92 U                    | 0.92 U                    | 0.92 U                    | NA                        | 46 UJ                     | 18 U                      | 0.92 U                    | 0.92 U                     | 0.92 U                     |
| 1,2-Dichlorotetrafluoroethane                                  | NS   | 1.4 UJ                    | 1.4 U                     | NA                        | 1.4 U                     | 1.4 U                     | 1.4 U                     | 1.4 U                     | NA                        | 70 UJ                     | 28 U                      | 1.4 U                     | 1.4 U                      | 1.4 U                      |
| 1,3,5-Trimethylbenzene (Mesitylene)                            | NS   | 0.98 UJ                   | 0.98 U                    | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 49 UJ                     | 20 U                      | 0.98 U                    | 0.98 U                     | 0.98 U                     |
| 1,3-Butadiene  | NS   | 0.44 UJ                   | 0.44 U                    | NA                        | 0.44 U                    | 0.44 U                    | 0.44 U                    | 0.44 U                    | NA                        | 22 UJ                     | 8.8 U                     | 0.44 U                    | 0.44 U                     | 0.44 U                     |
| 1,3-Dichlorobenzene  | NS   | 1.2 UJ                    | 1.2 U                     | NA                        | 1.2 U                     | 1.2 U                     | 1.2 U                     | 1.2 U                     | NA                        | 60 UJ                     | 24 U                      | 1.2 U                     | 1.2 U                      | 1.2 U                      |
| 1,4-Dichlorobenzene  | NS   | 1.2 UJ                    | 1.2 U                     | NA                        | 1.2 U                     | 1.2 U                     | 1.2 U                     | 1.2 U                     | NA                        | 60 UJ                     | 24 U                      | 1.2 U                     | 1.2 U                      | 1.2 U                      |
| 2,2,4-Trimethylpentane   | NS   | 0.93 UJ                   | 0.93 U                    | NA                        | 1.5                       | 1                         | 0.93                      | 0.93 U                    | NA                        | 47 UJ                     | 19 U                      | 0.93 U                    | 1.4                        | 0.93 U                     |
| 2-Chlorotoluene  | NS   | 1 UJ                      | 1 U                       | NA                        | 1 U                       | 1 U                       | 1 U                       | 1 U                       | NA                        | 52 UJ                     | 21 U                      | 1 U                       | 1 U                        | 1 U                        |
| 2-Hexanone   | NS   | 2 UJ                      | 2 U                       | NA                        | 2 U                       | 2 U                       | 2 U                       | 2 U                       | NA                        | 100 UJ                    | 41 U                      | 5.5                       | 3.2                        | 2 U                        |
| 4-Ethyltoluene   | NS   | 0.98 UJ                   | 0.98 U                    | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 49 UJ                     | 20 U                      | 0.98 U                    | 0.98 U                     | 0.98 U                     |
| Acetone  | NS   | 16 J                      | NA                        | 310 D                     | 13                        | 22                        | 26                        | 290 D                     | 590 D                     | 590 UJ                    | 240 U                     | 82                        | 66                         | 41                         |
| Allyl Chloride (3-Chloropropene)                               | NS   | 1.6 UJ                    | 1.6 U                     | NA                        | 1.6 U                     | 1.6 U                     | 1.6 U                     | 1.6 U                     | NA                        | 78 UJ                     | 31 U                      | 1.6 U                     | 1.6 U                      | 1.6 U                      |
| Benzene  | NS   | 1.1 J                     | 0.96                      | NA                        | 1.2                       | 1                         | 0.97                      | 0.98                      | NA                        | 32 UJ                     | 13 U                      | 0.76                      | 1.5                        | 1.3                        |
| Benzyl Chloride  | NS   | 1 UJ                      | 1 U                       | NA                        | 1 U                       | 1 U                       | 1 U                       | 1 U                       | NA                        | 52 UJ                     | 21 U                      | 1 U                       | 1 U                        | 1 U                        |
| Bromodichloromethane   | NS   | 1.3 UJ                    | 1.3 U                     | NA                        | 1.3 U                     | 1.3 U                     | 1.3 U                     | 1.3 U                     | NA                        | 67 UJ                     | 27 U                      | 1.3 U                     | 1.3 U                      | 1.3 U                      |
| Bromoform  | NS   | 2.1 UJ                    | 2.1 U                     | NA                        | 2.1 U                     | 2.1 U                     | 2.1 U                     | 2.1 U                     | NA                        | 100 UJ                    | 41 U                      | 2.1 U                     | 2.1 U                      | 2.1 U                      |
| Bromomethane   | NS   | 0.78 UJ                   | 0.78 U                    | NA                        | 0.78 U                    | 0.78 U                    | 0.78 U                    | 0.78 U                    | NA                        | 39 UJ                     | 16 U                      | 0.78 U                    | 0.78 U                     | 0.78 U                     |
| Carbon Disulfide   | NS   | 1.6 UJ                    | 1.6 U                     | NA                        | 1.6 U                     | 1.6 U                     | 1.6 U                     | 1.6 U                     | NA                        | 78 UJ                     | 31 U                      | 1.6 U                     | 3.7                        | 7.5                        |
| Carbon Tetrachloride   | 60   | 0.23 J                    | 0.37                      | NA                        | 0.44                      | 0.34                      | 0.29                      | 0.39                      | NA                        | 11 UJ                     | 4.4 U                     | 0.33                      | 0.5                        | 0.59                       |
| Chlorobenzene  | NS   | 0.92 UJ                   | 0.92 U                    | NA                        | 0.92 U                    | 0.92 U                    | 0.92 U                    | 0.92 U                    | NA                        | 46 UJ                     | 18 U                      | 0.92 U                    | 0.92 U                     | 0.92 U                     |
| Chloroethane   | NS   | 1.3 UJ                    | 1.3 U                     | NA                        | 1.3 U                     | 1.3 U                     | 1.3 U                     | 1.3 U                     | NA                        | 66 UJ                     | 26 U                      | 1.3 U                     | 1.3 U                      | 1.3 U                      |
| Chloroform   | NS   | 0.98 UJ                   | 3.9                       | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 300 J                     | 20 U                      | 4.8                       | 0.98 U                     | 1                          |
| Chloromethane  | NS   | 1.1 J                     | 1.1                       | NA                        | 1.1                       | 1.4                       | 1.1                       | 1.3                       | NA                        | 52 UJ                     | 21 U                      | 1.3                       | 1.1                        | 2.3                        |
| Cis-1,2-Dichloroethylene                                       | 60   | 0.2 UJ                    | 0.2 U                     | NA                        | 0.2 U                     | 0.2 U                     | 0.2 U                     | 0.2 U                     | NA                        | 10 UJ                     | 4 U                       | 0.2 U                     | 0.2 U                      | 0.2 U                      |
| Cis-1,3-Dichloropropene  | NS   | 0.91 UJ                   | 0.91 U                    | NA                        | 0.91 U                    | 0.91 U                    | 0.91 U                    | 0.91 U                    | NA                        | 45 UJ                     | 18 U                      | 0.91 U                    | 0.91 U                     | 0.91 U                     |
| Cyclohexane  | NS   | 0.87 J                    | 0.76                      | NA                        | 1                         | 1.2                       | 0.95                      | 1.3                       | NA                        | 34 UJ                     | 14 U                      | 2.7                       | 1.8                        | 1.1                        |
| Cymene   | NS   | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| Dibromochloromethane   | NS   | 1.7 UJ                    | 1.7 U                     | NA                        | 1.7 U                     | 1.7 U                     | 1.7 U                     | 1.7 U                     | NA                        | 85 UJ                     | 34 U                      | 1.7 U                     | 1.7 U                      | 1.7 U                      |
| Dichlorodifluoromethane  | NS   | 2.9 J                     | 2.6                       | NA                        | 2.9                       | 2.5                       | 2.5                       | 2.5                       | NA                        | 120 UJ                    | 49 U                      | 4.3                       | 2.9                        | 3.1                        |
| Ethylbenzene   | NS   | 0.87 UJ                   | 8.7                       | NA                        | 0.87 U                    | 0.86                      | 0.87 U                    | 5.5                       | NA                        | 43 UJ                     | 17 U                      | 1.6                       | 1.2                        | 1.5                        |
| Hexachlorobutadiene  | NS   | 2.1 UJ                    | 2.1 U                     | NA                        | 2.1 U                     | 2.1 U                     | 2.1 U                     | 2.1 U                     | NA                        | 110 UJ                    | 43 U                      | 2.1 U                     | 2.1 U                      | 2.1 U                      |
| Isopropanol  | NS   | 12 UJ                     | 12 U                      | NA                        | 12 U                      | 12 U                      | 12 U                      | 12 U                      | NA                        | 610 UJ                    | 250 U                     | 12 U                      | 12 U                       | 12 U                       |
| Isopropylbenzene (Cumene)                                      | NS   | 0.98 UJ                   | 0.98 U                    | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 49 UJ                     | 20 U                      | 0.98 U                    | 0.98 U                     | 0.98 U                     |
| M,P-Xylenes  | NS   | 2.2 UJ                    | 46                        | NA                        | 2.2 U                     | 3                         | 2.2 U                     | 26                        | NA                        | 110 UJ                    | 43 U                      | 5                         | 4.2                        | 3.3                        |
| Methyl Ethyl Ketone (2-Butanone)                               | NS   | 2.4 J                     | 2.7                       | NA                        | 6.2                       | 5.2                       | 4                         | 10                        | NA                        | 74 UJ                     | 29 U                      | 4.6                       | 7.5                        | 20                         |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)                  | NS   | 2 UJ                      | 2 U                       | NA                        | 2 U                       | 2 U                       | 2 U                       | 2.4                       | NA                        | 100 UJ                    | 41 U                      | 2 U                       | 2 U                        | 3.5                        |
| Methylene Chloride   | 1,000  | 1.7 UJ                    | 1.7 U                     | NA                        | 1.7 U                     | 1.7 U                     | 1.7 U                     | 1.7 U                     | NA                        | 87 UJ                     | 35 U                      | 1.7 U                     | 1.7 U                      | 1.7 U                      |
| Naphthalene  | NS   | 2.6 UJ                    | 2.6 U                     | NA                        | 2.6 U                     | 2.6 U                     | 2.6 U                     | 2.6 U                     | NA                        | 130 UJ                    | 52 U                      | 2.6 U                     | 2.6 U                      | 2.6 U                      |
| N-Butylbenzene   | NS   | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| N-Heptane  | NS   | 0.84 J                    | 0.82 U                    | NA                        | 0.82 U                    | 0.82                      | 0.87                      | 0.83                      | NA                        | 41 UJ                     | 17                        | 1.8                       | 6.8                        | 2.5                        |
| N-Hexane   | NS   | 0.93 J                    | 0.81                      | NA                        | 1.5                       | 1.7                       | 2.7                       | 1.3                       | NA                        | 35 UJ                     | 14 U                      | 3.5                       | 3.6                        | 1.5                        |
| N-Propylbenzene  | NS   | 0.98 UJ                   | 0.98 U                    | NA                        | 0.98 U                    | 0.98 U                    | 0.98 U                    | 0.98 U                    | NA                        | 49 UJ                     | 20 U                      | 0.98 U                    | 0.98 U                     | 0.98 U                     |
| O-Xylene (1,2-Dimethylbenzene)                                 | NS   | 0.87 UJ                   | 16                        | NA                        | 0.87 U                    | 1.2                       | 0.87 U                    | 9.3                       | NA                        | 43 UJ                     | 17 U                      | 2                         | 9.8                        | 0.94                       |
| Sec-Butylbenzene   | NS   | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| Styrene  | NS   | 0.85 UJ                   | 1                         | NA                        | 0.85 U                    | 0.85 U                    | 0.85 U                    | 0.85 U                    | NA                        | 43 UJ                     | 17 U                      | 0.85 U                    | 0.85 U                     | 0.85 U                     |
| T-Butylbenzene   | NS   | 1.1 UJ                    | 1.1 U                     | NA                        | 1.1 U                     | 1.1 U                     | 1.1 U                     | 1.1 U                     | NA                        | 55 UJ                     | 22 U                      | 1.1 U                     | 1.1 U                      | 1.1 U                      |
| Tert-Butyl Alcohol   | NS   | 15 UJ                     | 15 U                      | NA                        | 15 U                      | 15 U                      | 15 U                      | 15 U                      | NA                        | 760 UJ                    | 300 U                     | 15 U                      | 15 U                       | 15 U                       |
| Tert-Butyl Methyl Ether  | NS   | 0.72 UJ                   | 0.72 U                    | NA                        | 0.72 U                    | 0.72 U                    | 0.72 U                    | 0.72 U                    | NA                        | 36 UJ                     | 14 U                      | 0.72 U                    | 0.72 U                     | 0.72 U                     |
| Tetrachloroethylene (PCE)                                      | 1,000  | 1.4 UJ                    | 1.4 U                     | NA                        | 1.4 U                     | 1.4 U                     | 1.4 U                     | 1.4 U                     | NA                        | 68 UJ                     | 27 U                      | 1.4 U                     | 1.4 U                      | 1.4 U                      |
| Tetrahydrofuran  | NS   | 15 UJ                     | 15 U                      | NA                        | 15 U                      | 15 U                      | 15 U                      | 15 U                      | NA                        | 740 UJ                    | 290 U                     | 15 U                      | 15 U                       | 15 U                       |
| Toluene  | NS   | 3 J                       | 2.8                       | NA                        | 3.5                       | 3.4                       | 3.5                       | 3                         | NA                        | 38 UJ                     | 15 U                      | 14                        | 8.3                        | 4.3                        |
| Trans-1,2-Dichloroethene                                       | NS   | 0.79 UJ                   | 0.79 U                    | NA                        | 0.79 U                    | 0.79 U                    | 0.79 U                    | 0.79 U                    | NA                        | 40 UJ                     | 16 U                      | 0.79 U                    | 0.79 U                     | 0.79 U                     |
| Trans-1,3-Dichloropropene                                      | NS   | 0.91 UJ                   | 0.91 U                    | NA                        | 0.91 U                    | 0.91 U                    | 0.91 U                    | 0.91 U                    | NA                        | 45 UJ                     | 18 U                      | 0.91 U                    | 0.91 U                     | 0.91 U                     |
| Trichloroethylene (TCE)  | 60   | 0.19 UJ                   | 0.19 U                    | NA                        | 0.19 U                    | 0.19 U                    | 0.19 U                    | 0.19 U                    | NA                        | 9.4 UJ                    | 3.8 U                     | 1.2                       | 0.19 U                     | 0.19 U                     |
| Trichlorofluoromethane   | NS   | 1.4 J                     | 1.2                       | NA                        | 1.5                       | 1.2                       | 1.2                       | 1.3                       | NA                        | 56 UJ                     | 22 U                      | 1.4                       | 1.7                        | 2.2                        |
| Vinyl Bromide  | NS   | 0.87 UJ                   | 0.87 U                    | NA                        | 0.87 U                    | 0.87 U                    | 0.87 U                    | 0.87 U                    | NA                        | 44 UJ                     | 17 U                      | 0.87 U                    | 0.87 U                     | 0.87 U                     |
| Vinyl Chloride   | 60   | 0.2 UJ                    | 0.2 U                     | NA                        | 0.2 U                     | 0.2 U                     | 0.2 U                     | 0.2 U                     | NA                        | 10 UJ                     | 4 U                       | 0.2 U                     | 0.2 U                      | 0.2 U                      |

**Table 1**  
**Elton Crossing (Melrose C Family)**  
**432 East 162nd Street (899 Elton Avenue), Bronx, NY**  
**Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results**

**GENERAL**

- NS** : A standard has not been established for the analyte.
- ND** : The sample was not detected above the laboratory reporting limit.
- NA** : Not applicable.
- U** : The analyte was not detected above laboratory reporting limits.
- J** : The analyte was detected at a concentration above the laboratory reporting limit; the reported concentration is approximate and may be inaccurate or imprecise.
- D** : The reported concentration is the result of a diluted analysis.

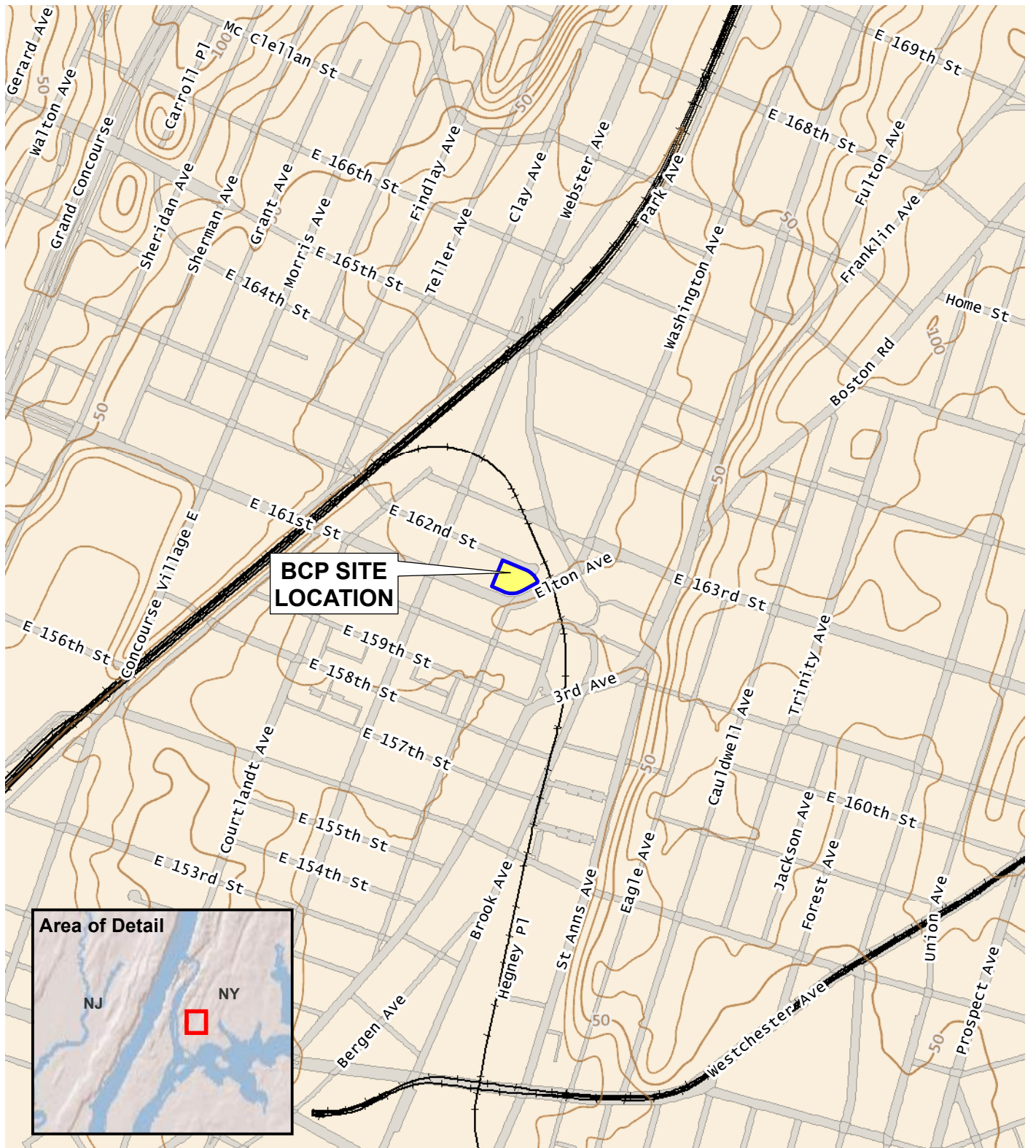
**SOIL VAPOR**

**NYSDOH Soil Vapor Intrusion Matrix Values** : NYSDOH Sub-Slab Vapor Concentration which may require monitoring or mitigation as presented in the Matrix A, Matrix B, and Matrix C tables of the Final Guidance in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated May 2017.

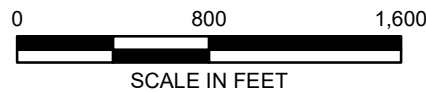
$\mu\text{g}/\text{m}^3$  : micrograms per cubic meter

**Exceedances of NYSDOH Soil Vapor Intrusion Matrix Values, if found, are highlighted in bold font.**

## FIGURES



Service Layer Credits: USGS The National Map: 3d Elevation Program 2018



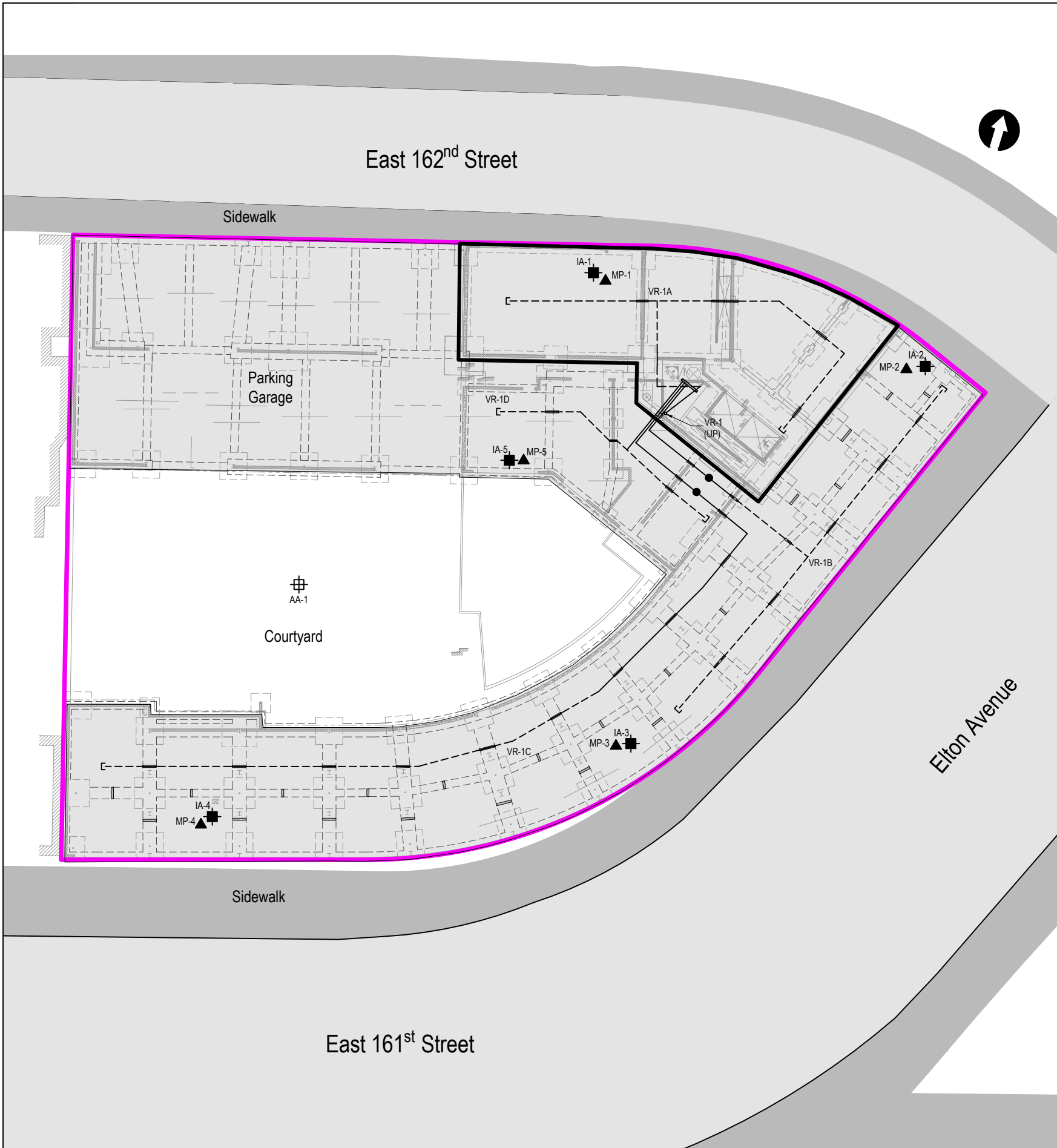
440 Park Avenue South, New York, NY 10016

**Elton Crossing (Melrose C Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
 Bronx, New York

**BCP SITE LOCATION**

|             |            |
|-------------|------------|
| DATE        | 12/18/2018 |
| PROJECT NO. | 11901      |
| FIGURE      | 1          |

©2019 AKRF, Inc. M:\AKRF Project Files\11901 Melrose Commons Site C - Family\Figures\11901 Fig 2 - SSDS layout and Sample Location Plan.dwg last save: jszalus 2/1/2019 10:44 AM



- LEGEND**
- BCP SITE BOUNDARY
  - LATERAL EXTENT OF GAS VAPOR BARRIER AND 6-INCH TO 4-FOOT THICK GAS PERMEABLE AGGREGATE
  - VR-1 ○ VERTICAL RISER AND IDENTIFICATION NUMBER EXTENDING TO ROOF WITH EXHAUST STACK
  - 4-INCH DIAMETER SCHEDULE 40 0.02-INCH SLOTTED PVC PIPE BENEATH FLOOR SLAB WITH END CAP
  - 4-INCH DIAMETER SCHEDULE 40 SOLID PVC PIPE BENEATH FLOOR SLAB
  - MANIFOLD
  - EXTENT OF PARTIAL CELLAR
  - PIPE SLEEVE
  - COMMUNICATION SLEEVE
  - CONDENSATE DRAIN
  - CONCRETE FOUNDATION ELEMENT
  - MP-1 ▲ MONITORING POINT/SOIL VAPOR SAMPLE LOCATION
  - IA-1 ■ INDOOR AIR SAMPLE LOCATION
  - AA-1 ⊕ AMBIENT AIR SAMPLE LOCATION



440 Park Avenue South, New York, NY 10016

**Elton Crossing (Melrose C Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
 Bronx, New York

**SSDS LAYOUT AND SAMPLE LOCATION PLAN**

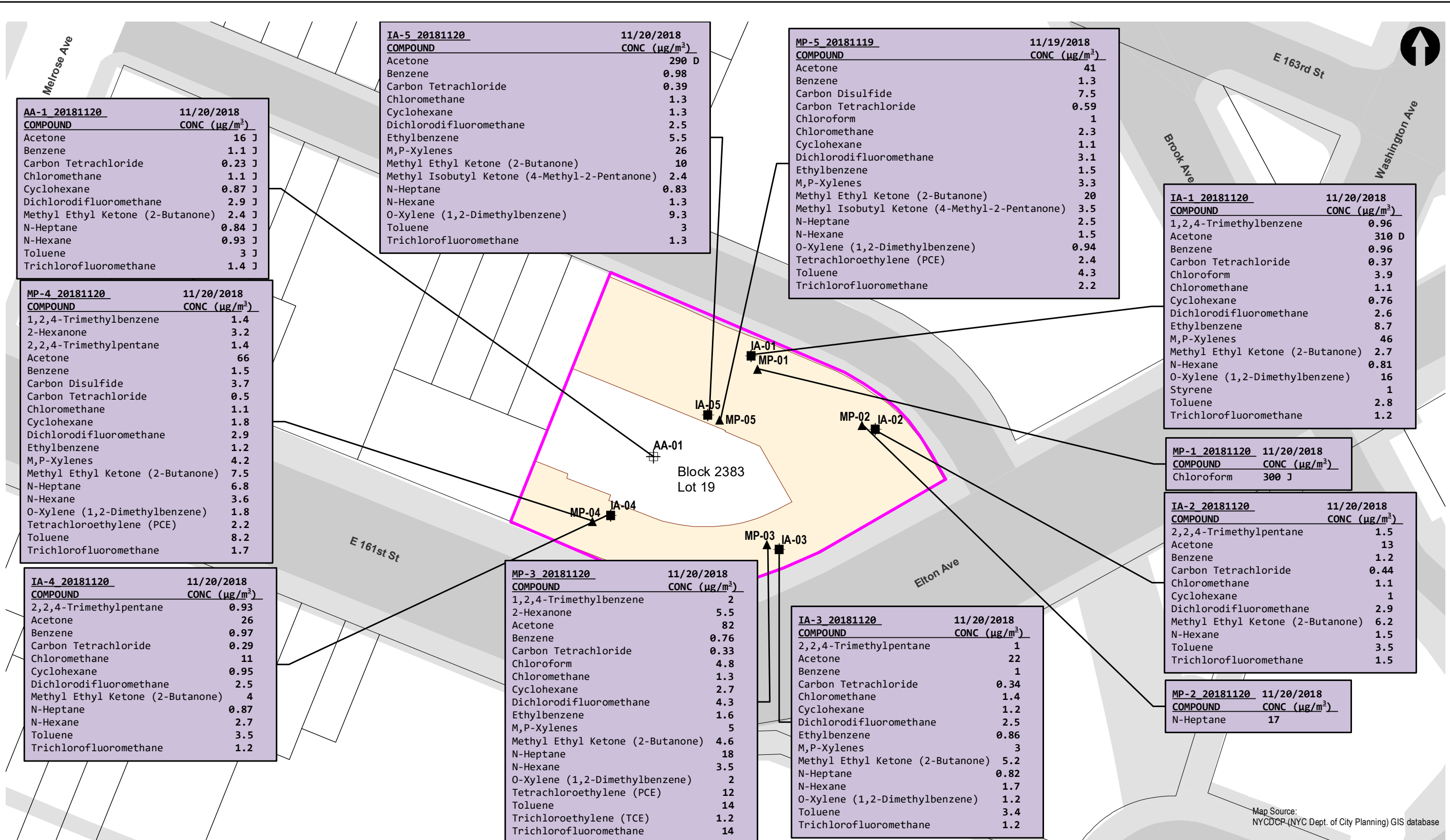
DATE  
**2/1/2019**

PROJECT NO.  
**11901**

FIGURE  
**2**



©2019 AKRF W:\Projects\11901 - MELROSE SITE C FAMILY ELTONCROSSING\Technical\GIS and Graphics\Harmal\SoilVapor\Deletions - 11x17.mxd 1/31/2019 2:09:55 PM dcolombini



**AA-1 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| Acetone                          | 16 J         |
| Benzene                          | 1.1 J        |
| Carbon Tetrachloride             | 0.23 J       |
| Chloromethane                    | 1.1 J        |
| Cyclohexane                      | 0.87 J       |
| Dichlorodifluoromethane          | 2.9 J        |
| Methyl Ethyl Ketone (2-Butanone) | 2.4 J        |
| N-Heptane                        | 0.84 J       |
| N-Hexane                         | 0.93 J       |
| Toluene                          | 3 J          |
| Trichlorofluoromethane           | 1.4 J        |

**IA-5 20181120** 11/20/2018

| COMPOUND                                      | CONC (µg/m³) |
|---|--------------|
| Acetone                                       | 290 D        |
| Benzene                                       | 0.98         |
| Carbon Tetrachloride                          | 0.39         |
| Chloromethane                                 | 1.3          |
| Cyclohexane                                   | 1.3          |
| Dichlorodifluoromethane                       | 2.5          |
| Ethylbenzene                                  | 5.5          |
| M,P-Xylenes                                   | 26           |
| Methyl Ethyl Ketone (2-Butanone)              | 10           |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 2.4          |
| N-Heptane                                     | 0.83         |
| N-Hexane                                      | 1.3          |
| O-Xylene (1,2-Dimethylbenzene)                | 9.3          |
| Toluene                                       | 3            |
| Trichlorofluoromethane                        | 1.3          |

**MP-5 20181119** 11/19/2018

| COMPOUND                                      | CONC (µg/m³) |
|---|--------------|
| Acetone                                       | 41           |
| Benzene                                       | 1.3          |
| Carbon Disulfide                              | 7.5          |
| Carbon Tetrachloride                          | 0.59         |
| Chloroform                                    | 1            |
| Chloromethane                                 | 2.3          |
| Cyclohexane                                   | 1.1          |
| Dichlorodifluoromethane                       | 3.1          |
| Ethylbenzene                                  | 1.5          |
| M,P-Xylenes                                   | 3.3          |
| Methyl Ethyl Ketone (2-Butanone)              | 20           |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 3.5          |
| N-Heptane                                     | 2.5          |
| N-Hexane                                      | 1.5          |
| O-Xylene (1,2-Dimethylbenzene)                | 0.94         |
| Tetrachloroethylene (PCE)                     | 2.4          |
| Toluene                                       | 4.3          |
| Trichlorofluoromethane                        | 2.2          |

**IA-1 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 1,2,4-Trimethylbenzene           | 0.96         |
| Acetone                          | 310 D        |
| Benzene                          | 0.96         |
| Carbon Tetrachloride             | 0.37         |
| Chloroform                       | 3.9          |
| Chloromethane                    | 1.1          |
| Cyclohexane                      | 0.76         |
| Dichlorodifluoromethane          | 2.6          |
| Ethylbenzene                     | 8.7          |
| M,P-Xylenes                      | 46           |
| Methyl Ethyl Ketone (2-Butanone) | 2.7          |
| N-Hexane                         | 0.81         |
| O-Xylene (1,2-Dimethylbenzene)   | 16           |
| Styrene                          | 1            |
| Toluene                          | 2.8          |
| Trichlorofluoromethane           | 1.2          |

**MP-4 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 1,2,4-Trimethylbenzene           | 1.4          |
| 2-Hexanone                       | 3.2          |
| 2,2,4-Trimethylpentane           | 1.4          |
| Acetone                          | 66           |
| Benzene                          | 1.5          |
| Carbon Disulfide                 | 3.7          |
| Carbon Tetrachloride             | 0.5          |
| Chloromethane                    | 1.1          |
| Cyclohexane                      | 1.8          |
| Dichlorodifluoromethane          | 2.9          |
| Ethylbenzene                     | 1.2          |
| M,P-Xylenes                      | 4.2          |
| Methyl Ethyl Ketone (2-Butanone) | 7.5          |
| N-Heptane                        | 6.8          |
| N-Hexane                         | 3.6          |
| O-Xylene (1,2-Dimethylbenzene)   | 1.8          |
| Tetrachloroethylene (PCE)        | 2.2          |
| Toluene                          | 8.2          |
| Trichlorofluoromethane           | 1.7          |

**MP-1 20181120** 11/20/2018

| COMPOUND   | CONC (µg/m³) |
|------------|--------------|
| Chloroform | 300 J        |

**IA-2 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 2,2,4-Trimethylpentane           | 1.5          |
| Acetone                          | 13           |
| Benzene                          | 1.2          |
| Carbon Tetrachloride             | 0.44         |
| Chloromethane                    | 1.1          |
| Cyclohexane                      | 1            |
| Dichlorodifluoromethane          | 2.9          |
| Methyl Ethyl Ketone (2-Butanone) | 6.2          |
| N-Hexane                         | 1.5          |
| Toluene                          | 3.5          |
| Trichlorofluoromethane           | 1.5          |

**IA-4 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 2,2,4-Trimethylpentane           | 0.93         |
| Acetone                          | 26           |
| Benzene                          | 0.97         |
| Carbon Tetrachloride             | 0.29         |
| Chloromethane                    | 11           |
| Cyclohexane                      | 0.95         |
| Dichlorodifluoromethane          | 2.5          |
| Methyl Ethyl Ketone (2-Butanone) | 4            |
| N-Heptane                        | 0.87         |
| N-Hexane                         | 2.7          |
| Toluene                          | 3.5          |
| Trichlorofluoromethane           | 1.2          |

**MP-3 20181120** 11/20/2018

| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 1,2,4-Trimethylbenzene           | 2            |
| 2-Hexanone                       | 5.5          |
| Acetone                          | 82           |
| Benzene                          | 0.76         |
| Carbon Tetrachloride             | 0.33         |
| Chloroform                       | 4.8          |
| Chloromethane                    | 1.3          |
| Cyclohexane                      | 2.7          |
| Dichlorodifluoromethane          | 4.3          |
| Ethylbenzene                     | 1.6          |
| M,P-Xylenes                      | 5            |
| Methyl Ethyl Ketone (2-Butanone) | 4.6          |
| N-Heptane                        | 18           |
| N-Hexane                         | 3.5          |
| O-Xylene (1,2-Dimethylbenzene)   | 2            |
| Tetrachloroethylene (PCE)        | 12           |
| Toluene                          | 14           |
| Trichloroethylene (TCE)          | 1.2          |
| Trichlorofluoromethane           | 14           |

**IA-3 20181120** 11/20/2018

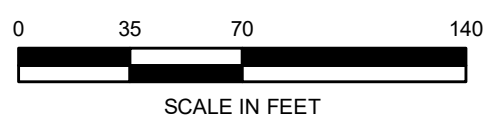
| COMPOUND                         | CONC (µg/m³) |
|----------------------------------|--------------|
| 2,2,4-Trimethylpentane           | 1            |
| Acetone                          | 22           |
| Benzene                          | 1            |
| Carbon Tetrachloride             | 0.34         |
| Chloromethane                    | 1.4          |
| Cyclohexane                      | 1.2          |
| Dichlorodifluoromethane          | 2.5          |
| Ethylbenzene                     | 0.86         |
| M,P-Xylenes                      | 3            |
| Methyl Ethyl Ketone (2-Butanone) | 5.2          |
| N-Heptane                        | 0.82         |
| N-Hexane                         | 1.7          |
| O-Xylene (1,2-Dimethylbenzene)   | 1.2          |
| Toluene                          | 3.4          |
| Trichlorofluoromethane           | 1.2          |

**MP-2 20181120** 11/20/2018

| COMPOUND  | CONC (µg/m³) |
|-----------|--------------|
| N-Heptane | 17           |

**LEGEND**

- BCP SITE BOUNDARY
- INDOOR AIR SAMPLE LOCATION
- AMBIENT AIR SAMPLE LOCATION
- MONITORING POINT/SOIL VAPOR SAMPLE LOCATION
- BUILDING OUTLINE
- LOT BOUNDARY



µg/m³- micrograms per cubic meter

J : The analyte was detected at a concentration above the laboratory reporting limit; the reported concentration is approximate and may be inaccurate or imprecise.  
 D : The reported concentration is the result of a diluted analysis.

Sample ID → **IA-5 20181120** 11/20/2018

| COMPOUND                                      | CONC (µg/m³) |
|---|--------------|
| Ethylbenzene                                  | 5.5          |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 2.4          |
| Toluene                                       | 3            |
| N-Hexane                                      | 1.3          |

Sample Date → 11/20/2018  
 Concentration in Soil Vapor →

**Elton Crossing (Melrose C Family)**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue)**  
 Bronx, New York

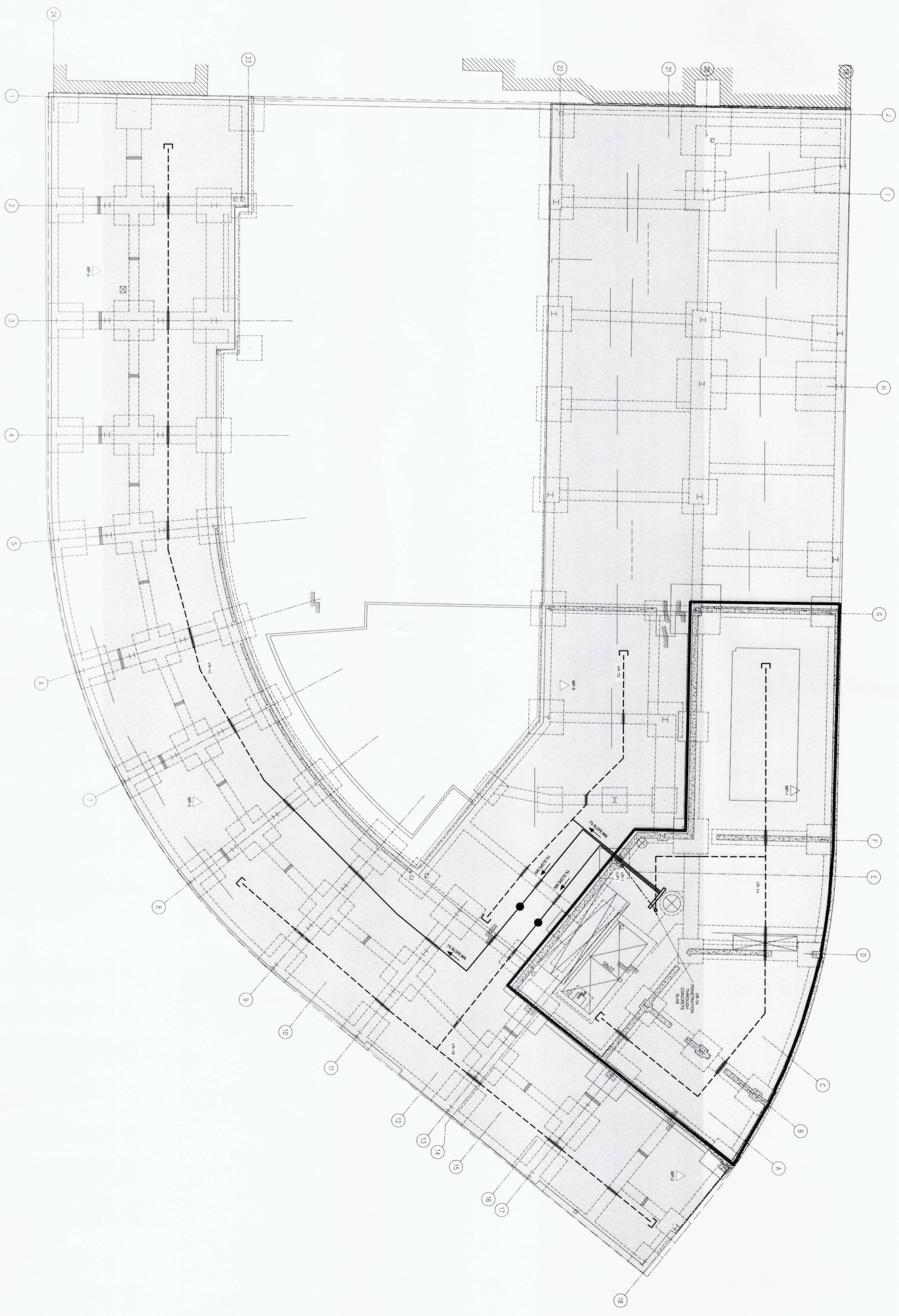
**Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Sample Detections**

|             |           |
|-------------|-----------|
| DATE        | 1/31/2019 |
| PROJECT NO. | 11901     |
| FIGURE      | 3         |

**APPENDIX A**

**SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) AS-BUILT DRAWINGS**





**LEGEND**

- ▭ LATERAL EXTENT OF GAS VAPOR BARRIER AND 4-INCH TO 4.5-FOOT THICK GAS PERMEABLE AGGREGATE (SEE DETAILS ON DRAWING ENV-101)
- VERTICAL RISER AND IDENTIFICATION NUMBER EXTENDING TO ROOF WITH EXHAUST STACK (SEE DETAIL 2 ON ENV-103)
- 4-INCH DIAMETER SCHEDULE 40 0.075-INCH SLOTTED PVC SIPS PIPE BENEATH FLOOR SLAB WITH END CAP (SEE DETAILS 2 AND 7 ON DRAWING ENV-101)
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SIPS PIPE BENEATH FLOOR SLAB
- 4-INCH DIAMETER SCHEDULE 40 SOLID PVC SIPS PIPE ABOVE FLOOR SLAB
- MANIFOLD
- EXTENT OF PARTIAL CELLAR
- ▲ MONITORING POINT (SEE DETAIL 4 ON DRAWING ENV-101)
- ▬ PIPE SLEEVE (SEE DETAIL 9 ON DRAWING ENV-101)
- ▬ COMMUNICATION SLEEVE (SEE DETAIL 11 ON DRAWING ENV-101)
- CONCRETE DRAIN (SEE DETAIL 5 ON ENV-101)
- ▬ CONCRETE FOUNDATION ELEMENT

**NOTE**

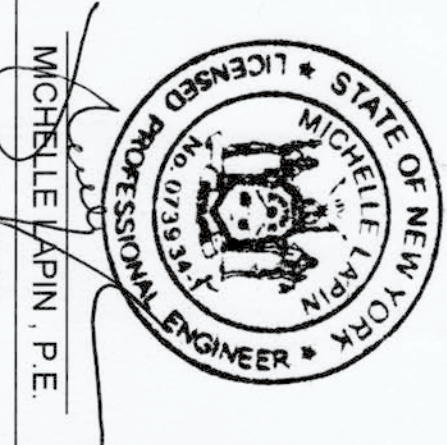
1. SOLID HORIZONTAL 4-INCH SCHEDULE 40 PVC PIPE SLOPED MINIMUM 1% UPSTREAM TOWARDS THE SIPS SLOTTED PIPING ON CONCRETE DRAIN



**OWNER**  
 ELTON CROSSING HOUSING  
 902 BROADWAY, 13TH FLOOR  
 NEW YORK, NY 10010

**ENVIRONMENTAL ENGINEER**  
**QAKRF**  
 440 PARK AVENUE SOUTH  
 NEW YORK, NY 10016  
 (212) 726-0942 (FAX)

| No.        | DATE       | DESCRIPTION      |
|------------|------------|------------------|
| 05/04/2018 | 05/04/2018 | DEC. SUBMISSION  |
| 06/12/2018 | 06/12/2018 | DEC. REVISIONS   |
| 06/24/2018 | 07/16/2018 | DESIGN REVISIONS |
| 10/07/2018 | 10/07/2018 | 100% CD          |
| 05/22/2018 | 05/22/2018 | AS BUILT EDITS   |
| 05/09/2018 | 05/09/2018 | AS BUILT EDITS   |
|            |            | 2018 BRB         |



| No.        | DATE       | DESCRIPTION      |
|------------|------------|------------------|
| 05/04/2018 | 05/04/2018 | DEC. SUBMISSION  |
| 06/12/2018 | 06/12/2018 | DEC. REVISIONS   |
| 06/24/2018 | 07/16/2018 | DESIGN REVISIONS |
| 10/07/2018 | 10/07/2018 | 100% CD          |
| 05/22/2018 | 05/22/2018 | AS BUILT EDITS   |
| 05/09/2018 | 05/09/2018 | AS BUILT EDITS   |
|            |            | 2018 BRB         |

**PROJECT**  
 ELTON CROSSING  
 (MEL ROSE C FAMILY)  
 BRONX, NEW YORK

**DRAWN BY**  
 MRV

**CHECKED BY**  
 ML

**SCALE**  
 AS NOTED

**DATE**  
 05/22/18

**SHEET TITLE**  
 UNDERGROUND  
 SUB-SLAB  
 DEPRESSURIZATION  
 LAYOUT

**SHEET NO.**  
 ENV-100

**SHEET 1 OF 4**











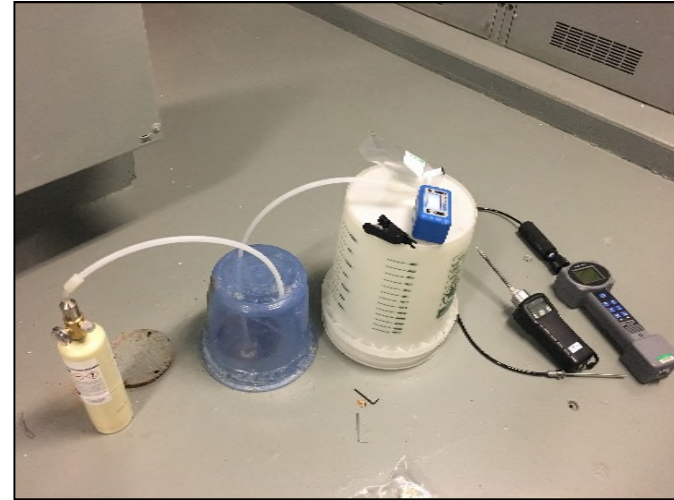




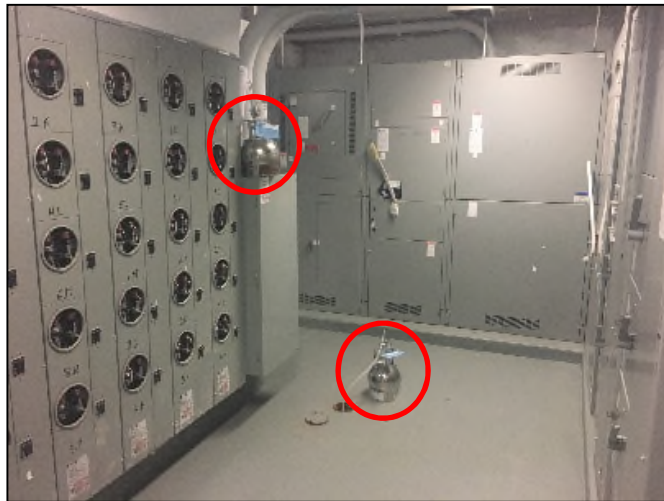
**APPENDIX B**  
**PHOTOGRAPHIC LOG**



Photograph 1: Soil vapor monitoring point MP-5 in the partial cellar of the Site building.



Photograph 2: Helium tracer test for MP-1 in the partial cellar.



Photograph 3: Collecting samples from MP-1 and IA-1 (in the electric room located in the partial cellar).



Photograph 4: Collecting ambient air sample in the centrally-located exterior courtyard, facing west.





Photograph 5: Chemical inventory of paints/primers on the first floor of the north-central portion of the Site building.



Photograph 6: Collecting samples from MP-5 and IA-5 on the first floor (north-central portion of the Site building).



Photograph 7: Collecting samples from MP-4 and IA-4 on the first floor (southwestern portion of the Site building).



Photograph 8: Sub-slab depressurization system (SSDS) manifold in the telecommunications room of the partial cellar.

**APPENDIX C**  
**NYSDOH PRE-INSPECTION SURVEY**

**NEW YORK STATE DEPARTMENT OF HEALTH  
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY  
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Victor Chang Date/Time Prepared 11/19/2018

Preparer's Affiliation AKRF, Inc. Phone No. 646.388.9869

Purpose of Investigation Vapor Intrusion Assessment to determine if the sub-slab depressurization system needs to switch from passive to active.

**1. OCCUPANT:** Construction Supervisor

Interviewed:  Y /  N

Last Name: Cabral First Name: Ruddy

Address: 432 East 162nd Street (899 Elton Avenue), Bronx, New York

County: Bronx

Home Phone: \_\_\_\_\_ Office Phone: 917.807.5847

Number of Occupants/persons at this location NA Age of Occupants NA

**2. OWNER OR LANDLORD:** (Check if same as occupant )

Interviewed:  Y /  N

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_

Address: \_\_\_\_\_

County: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Office Phone: \_\_\_\_\_

**3. BUILDING CHARACTERISTICS**

Type of Building: (Circle appropriate response)

Residential  
 Industrial

School  
 Church

Commercial/Multi-use  
Other: \_\_\_\_\_

If the property is residential, type? (Circle appropriate response)

- |              |                        |                   |
|--------------|------------------------|-------------------|
| Ranch        | 2-Family               | 3-Family          |
| Raised Ranch | Split Level            | Colonial          |
| Cape Cod     | Contemporary           | Mobile Home       |
| Duplex       | <u>Apartment House</u> | Townhouses/Condos |
| Modular      | Log Home               | Other: _____      |

If multiple units, how many? 199

If the property is commercial, type?

Business Type(s) Apartment Complex with Commercial on Ground Level - To be determined

Does it include residences (i.e., multi-use)? Y / N      If yes, how many? 199

Other characteristics:

Number of floors 12

Building age Superstructure was built in 2016

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight  
Except Open Garage (no heat) and Courtyard

**4. AIRFLOW**

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

\_\_\_\_\_  
NA - HVAC was not running at the time of reconnaissance.  
\_\_\_\_\_

Airflow near source

\_\_\_\_\_  
NA - HVAC was not running at the time of reconnaissance.  
\_\_\_\_\_  
\_\_\_\_\_

Outdoor air infiltration

\_\_\_\_\_  
NA - HVAC was not running at the time of reconnaissance.  
\_\_\_\_\_  
\_\_\_\_\_

Infiltration into air ducts

\_\_\_\_\_  
NA - HVAC was not running at the time of reconnaissance.  
\_\_\_\_\_  
\_\_\_\_\_

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other Concrete walls
- c. Basement floor: concrete dirt stone other \_\_\_\_\_
- d. Basement floor: uncovered covered covered with \_\_\_\_\_
- e. Concrete floor: unsealed sealed sealed with \_\_\_\_\_
- f. Foundation walls: poured block stone other Sheet rock frame
- g. Foundation walls: unsealed sealed sealed with \_\_\_\_\_
- h. The basement is: wet damp dry moldy Flooded on 11/20 at approx. 08:40 AM due to leak in pump.
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N not applicable

Basement/Lowest level depth below grade: 10 (feet) Partial basement

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

Newly finished basement and ground level; slab and walls are in good condition; no cracks were observed.

Sump pump was present in partial basement. No penetrations were observed in foundation walls.

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

Hot air circulation Heat pump Hot water baseboard  
 Space Heaters Stream radiation Radiant floor  
 Electric baseboard Wood stove Outdoor wood boiler Other \_\_\_\_\_

**The primary type of fuel used is:**

Natural Gas Fuel Oil Kerosene  
 Electric Propane Solar  
 Wood Coal

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other \_\_\_\_\_

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present?  Y  N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Ductwork was observed to be in good condition where visible.

## 7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally  Seldom Almost Never

**Level** **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

|                       |  |
|-----------------------|--|
| Basement              | Mechanical, Electrical, and Storage/Locker Rooms |
| 1 <sup>st</sup> Floor | Commerical (Stores/Offices - to be determined)   |
| 2 <sup>nd</sup> Floor | Residential Units                                |
| 3 <sup>rd</sup> Floor | Residential Units                                |
| 4 <sup>th</sup> Floor | Residential Units up until 12th Floor            |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage?  Y /  N
- b. Does the garage have a separate heating unit? Y /  N / NA Open Garage
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)  Y /  N / NA  
Please specify Cars, Aerial Lift (temporarily)
- d. Has the building ever had a fire? Y /  N When? \_\_\_\_\_
- e. Is a kerosene or unvented gas space heater present? Y /  N Where? \_\_\_\_\_
- f. Is there a workshop or hobby/craft area? Y /  N Where & Type? \_\_\_\_\_
- g. Is there smoking in the building? Y /  N How frequently? \_\_\_\_\_
- h. Have cleaning products been used recently?  Y /  N When & Type? 1st Floor was cleaned on 11/20/2018
- i. Have cosmetic products been used recently? Y /  N When & Type? \_\_\_\_\_

j. Has painting/staining been done in the last 6 months?  Y /  N Where & When? \_\_\_\_\_

k. Is there new carpet, drapes or other textiles? Y /  N Where & When? \_\_\_\_\_

l. Have air fresheners been used recently? Y /  N When & Type? \_\_\_\_\_

m. Is there a kitchen exhaust fan? Y /  N If yes, where vented? NA

n. Is there a bathroom exhaust fan? Y /  N If yes, where vented? NA

o. Is there a clothes dryer?  Y /  N If yes, is it vented outside?  Y /  N

p. Has there been a pesticide application? Y /  N When & Type? \_\_\_\_\_

Are there odors in the building? Y /  N  
If yes, please describe: \_\_\_\_\_

Do any of the building occupants use solvents at work? Y /  N  
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? \_\_\_\_\_

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No  
Yes, use dry-cleaning infrequently (monthly or less)  Unknown  
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure?  Y /  N Date of Installation: Completed in June 2018  
Is the system active or passive? Active /  Passive Currently - passive SSDS system that can switch to active (blower)

9. WATER AND SEWAGE

Water Supply:  Public Water Drilled Well Driven Well Dug Well Other: \_\_\_\_\_

Sewage Disposal:  Public Sewer Septic Tank Leach Field Dry Well Other: \_\_\_\_\_

10. RELOCATION INFORMATION (for oil spill residential emergency) NA

a. Provide reasons why relocation is recommended: \_\_\_\_\_

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

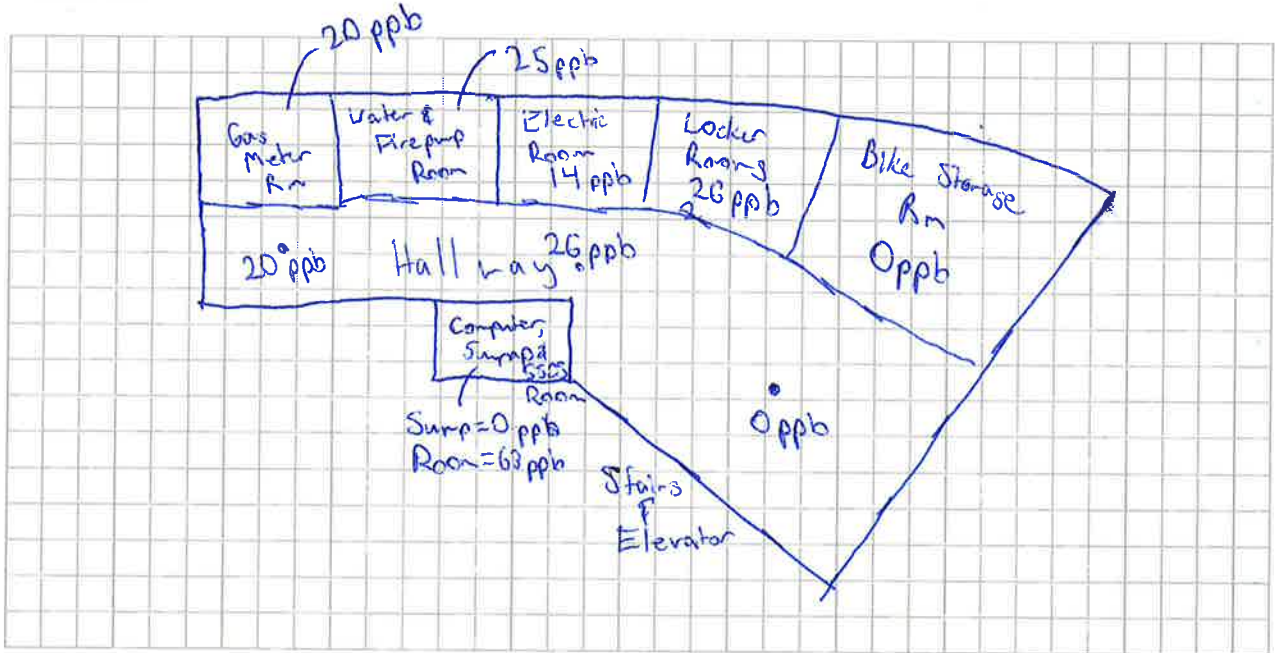
d. Relocation package provided and explained to residents? Y / N



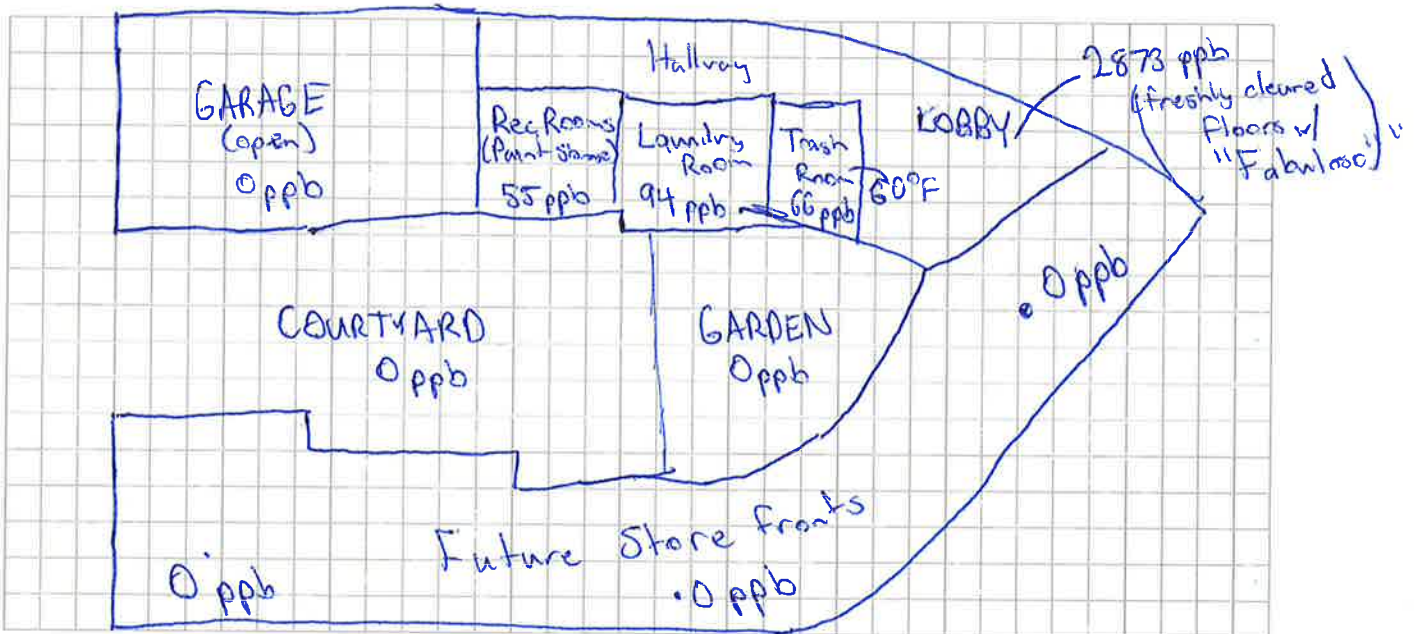
### 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

#### Basement:



#### First Floor:

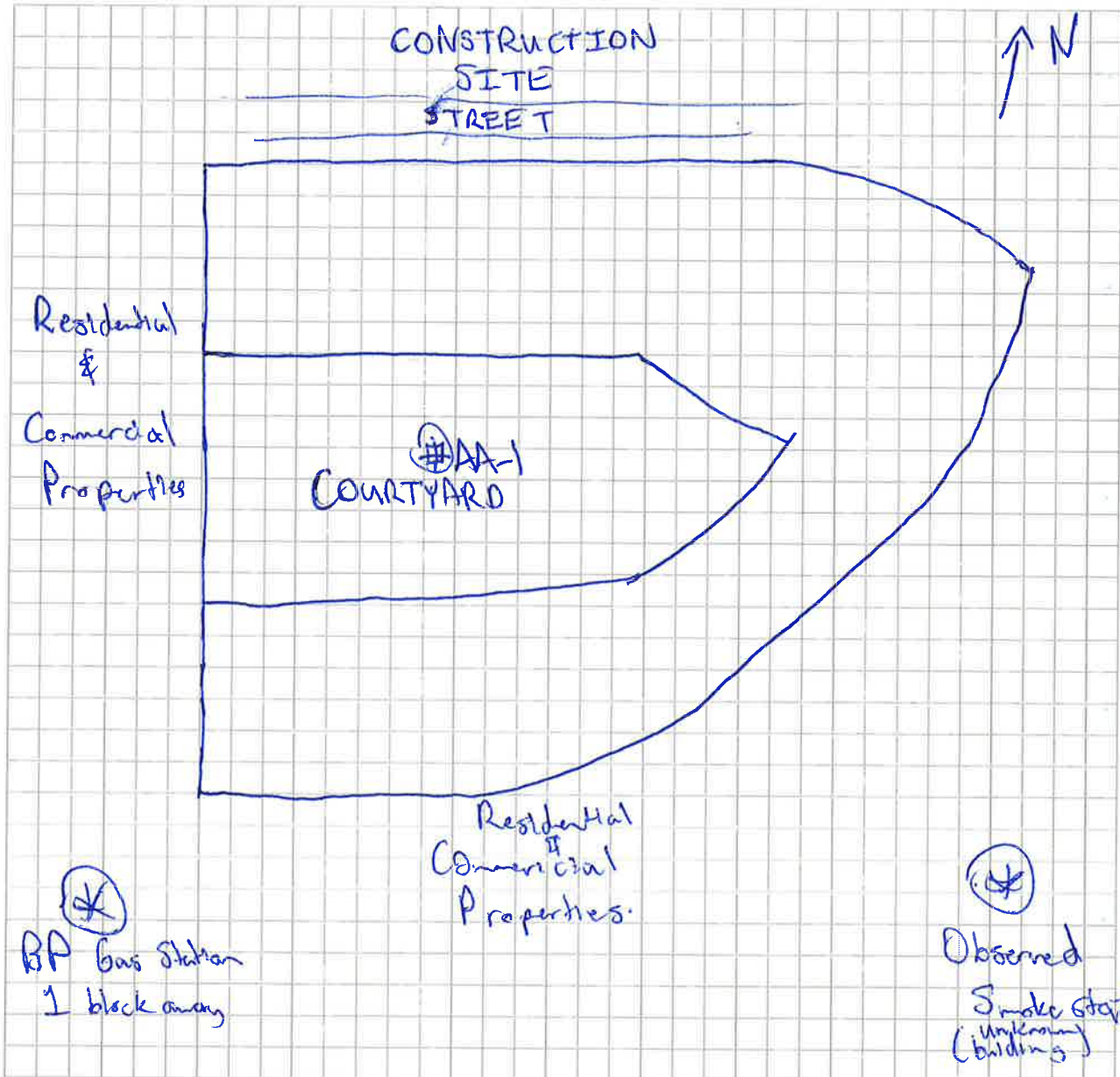




### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** ppbRAE 2000

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location            | Product Description                   | Size (units)  | Condition *    | Chemical Ingredients            | Field Instrument Reading (units) | Photo **<br>Y/N |
|---------------------|---------------------------------------|---------------|----------------|---------------------------------|----------------------------------|-----------------|
| Storefronts East    | Shell Rotellar Engine Oil             | 2.5 Gal       | (U) Plastic    | Engine Oil                      | ND                               | Y               |
| Storefronts Central | Misc. Silicone/Sealants               | Various Tubes | (U) Plastic    | Caulk/Silicone/Etc.             | ND                               | Y               |
| Storefronts Central | Klean Strip Green Safer Paint Thinner | 1 Gal         | (U) Plastic    |                                 | ND                               | Y               |
| Storefronts Central | H & W Number 10 Damping Oil           | 1 Gal         | (U) Plastic    | Hydraulic Oil                   | ND                               | Y               |
| Storefronts Central | Pure Bright Germicidal Ultra Bleach   | 1 Gal         | (U) Plastic    | Bleach                          | ND                               | Y               |
| Storefronts Central | Refrigerant 410A Freon                | 25 lbs        | (UO) Box       | Freon                           | ND                               | Y               |
| Storefronts Central | WD-40                                 | 12 oz         | (U) Can        | Hydrocarbons/Petroleum Base Oil | ND                               | Y               |
| Storefronts West    | Gasoline Jug                          | 1 Gal         | (U) Plastic    | Gasoline                        | ND                               | Y               |
| Storefronts West    | Novaplan 2 Plus                       | 50 lbs        | (UO) 2 Pallets | Cement-based                    | ND                               | Y               |
| Storefronts West    | BBT Bio-flooring Adhesive             | 4 Gal         | (UO) 7 Buckets | Petroleum Distillates           | ND                               | Y               |
| Laundry Room        | All Purpose Sheet Rock                | 5 Gal         | (UO) 5 Buckets | Sheet Rock                      | ND                               | Y               |
| Laundry Room        | Goof Off                              | 1 Gal         | (U) Can        | Acetone/Xyeline                 | 94.1 ppm                         | Y               |
| Paint Storage Rm    | Various Paints                        | Various       | (U/UO) Buckets | Paint                           | ND                               | Y               |
|                     |                                       |               |                |                                 |                                  |                 |
|                     |                                       |               |                |                                 |                                  |                 |
|                     |                                       |               |                |                                 |                                  |                 |
|                     |                                       |               |                |                                 |                                  |                 |
|                     |                                       |               |                |                                 |                                  |                 |
|                     |                                       |               |                |                                 |                                  |                 |

\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**  
 \*\* Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**APPENDIX D**  
**SOIL VAPOR, AND INDOOR AND AMBIENT AIR SAMPLING LOGS**



# Ambient Air Sample Log

|                              |   |                               |  |  |
|------------------------------|---|-------------------------------|--|--|
| <b>Project Location:</b>     | 432 East 162 <sup>nd</sup> Street (899 Elton Avenue), Bronx, NY   | <b>Client:</b>                | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |  |
| <b>AKRF Project No:</b>      | 11901   | <b>Sampled By:</b>            | V. Chang, AKRF   |  |
| <b>Date:</b>                 | 11/19 - 11/20/18  | <b>Weather:</b>               | Cloudy 46-50 °F/Cloudy 44-47 °F  |  |
| <b>Sample Setup</b>          |   |                               |  |  |
| <b>Sample Identification</b> |   |                               |  |  |
| <b>On-Site Location:</b>     | Central Courtyard (AA-1)  | <b>SUMMA® Canister ID:</b>    | 4141   |  |
| <b>Flow Controller ID:</b>   | 4055  | <b>Ambient Air Sample ID:</b> | AA-1_20181120  |  |
| <b>Sample Collection</b>     |   |                               |  |  |
| <b>Time</b>                  |   | <b>Vacuum (in/Hg)</b>         | <b>Background PID</b>  | <b>Potential VOC Sources/Notes</b>                     |
| <b>Time Started:</b>         | 13:00   | -30                           | ND   | None   |
| <b>Time:</b>                 | 15:01   | -26                           | ND   | None   |
| <b>Time Halfway:</b>         | 7:43  | -19                           | ND   | Rained Overnight                                       |
| <b>Time:</b>                 | 15:15   | -17                           | ND   | None   |
| <b>Time Stopped:</b>         | 16:27   | -17                           | ND   | Vacuum remained at -17 inHg for approximately 5 hours. |
| <b>Notes:</b>                | ND = non-detect                      L/min = Liters per minute                      in/Hg = inches of mercury |                               |  |  |
|                              | Ambient air sample AA-1_20181120 was collected in a 6-L SUMMA® canister using a 24-hour flow controller.      |                               |  |  |



## Soil Vapor Sample Log

|                              |   |  |  |   |
|------------------------------|---|--|--|---|
| <b>AKRF Project No:</b>      | 11901   | <b>Client:</b>   | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |   |
| <b>Project Location:</b>     | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | <b>Sampled By:</b>   | V. Chang   |   |
| <b>Date:</b>                 | 11/19 - 11/20/18                                    | <b>Weather:</b>  | Cloudy 46-50 °F/Cloudy 44-47 °F  |   |
| <b>Sample Setup</b>          |   |  |  |   |
| <b>Vapor Point Depth:</b>    | 9   | Inches   | <b>Total Time of Purge:</b>  | 5 mins  |
| <b>Purging Pump:</b>         | Gilair Plus   |  | <b>Purge Volume:</b>   | 1 L   |
| <b>Pump Flow Rate*:</b>      | 0.2   | L/min  | <b>Purged Vapor PID:</b>   | 101 ppb   |
|                              |   |  | <b>Helium Concentration:</b>   | ND  |
| <b>Sample Identification</b> |   |  |  |   |
| <b>Soil Vapor Point ID:</b>  | MP-1  | <b>SUMMA® Canister ID:</b>   | 5447   |   |
| <b>Flow Controller ID:</b>   | 4500  | <b>Soil Vapor Sample ID:</b>   | MP-1_20181120  |   |
| <b>Sample Collection</b>     |   |  |  |   |
| <b>Time</b>                  |   | <b>Vacuum (in/Hg)</b>  | <b>Background PID</b>  | <b>Notes</b>  |
| <b>Time Started:</b>         | 12:58   | -29  | 46 ppb   | Sump present in basement  |
| <b>Time Halfway:</b>         | 07:46   | -20.5  | 52 ppb   | None  |
| <b>Time Stopped:</b>         | 15:15   | -13  | 63 ppb   | Basment was submerged at approx. 0845 due to leak in a pump - Port was submerged. |
| <b>Notes:</b>                |   | *Purge flow rate not to exceed 0.2 L/min.  |  |   |
|                              |   | ND = non-detect                      ppb = parts per billion                      L/min = Liters per minute                      in/Hg = inches of mercury |  |   |
|                              |   | Soil vapor sample MP-1_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller.  |  |   |



## Soil Vapor Sample Log

|                              |       |   |        |                              |  |  |     |
|------------------------------|-------|---|--------|------------------------------|--|--|-----|
| <b>AKRF Project No:</b>      |       | 11901   |        | <b>Client:</b>               |  | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |     |
| <b>Project Location:</b>     |       | 432 East 162nd Street (899 Elton Avenue), Bronx, NY   |        | <b>Sampled By:</b>           |  | V. Chang   |     |
| <b>Date:</b>                 |       | 11/19 - 11/20/18  |        | <b>Weather:</b>              |  | Cloudy 46-50 °F/Cloudy 44-47 °F  |     |
| <b>Sample Setup</b>          |       |   |        |                              |  |  |     |
| <b>Vapor Point Depth:</b>    |       | 9   | Inches | <b>Total Time of Purge:</b>  |  | 5 mins   |     |
| <b>Purging Pump:</b>         |       | Gilair Plus   |        | <b>Purge Volume:</b>         |  | 1 L  |     |
| <b>Pump Flow Rate*:</b>      |       | 0.2   | L/min  | <b>Purged Vapor PID:</b>     |  | 56.4   | ppb |
|                              |       |   |        | <b>Helium Concentration:</b> |  | ND   |     |
| <b>Sample Identification</b> |       |   |        |                              |  |  |     |
| <b>Soil Vapor Point ID:</b>  |       | MP-2  |        | <b>SUMMA® Canister ID:</b>   |  | 2512   |     |
| <b>Flow Controller ID:</b>   |       | 2806  |        | <b>Soil Vapor Sample ID:</b> |  | MP-2_20181120  |     |
| <b>Sample Collection</b>     |       |   |        |                              |  |  |     |
| <b>Time</b>                  |       | <b>Vacuum (in/Hg)</b>   |        | <b>Background PID</b>        |  | <b>Notes</b>   |     |
| <b>Time Started:</b>         | 12:54 | -30   |        | ND                           |  | None   |     |
| <b>Time Halfway:</b>         | 07:36 | -14   |        | ND                           |  | None   |     |
| <b>Time Stopped:</b>         | 12:59 | -7  |        | ND                           |  | None   |     |
| <b>Notes:</b>                |       | *Purge flow rate not to exceed 0.2 L/min.   |        |                              |  |  |     |
|                              |       | ND = non-detect   |        | L/min = Liters per minute    |  | in/Hg = inches of mercury  |     |
|                              |       | Soil vapor sample MP-2_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |        |                              |  |  |     |



## Soil Vapor Sample Log

|                              |       |   |  |                              |  |  |  |
|------------------------------|-------|---|--|------------------------------|--|--|--|
| <b>AKRF Project No:</b>      |       | 11901   |  | <b>Client:</b>               |  | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |  |
| <b>Project Location:</b>     |       | 432 East 162nd Street (899 Elton Avenue), Bronx, NY   |  | <b>Sampled By:</b>           |  | V. Chang   |  |
| <b>Date:</b>                 |       | 11/19 - 11/20/18  |  | <b>Weather:</b>              |  | Cloudy 46-50 °F/Cloudy 44-47 °F  |  |
| <b>Sample Setup</b>          |       |   |  |                              |  |  |  |
| <b>Vapor Point Depth:</b>    |       | 9 Inches  |  | <b>Total Time of Purge:</b>  |  | 5 mins   |  |
| <b>Purging Pump:</b>         |       | Gilair Plus   |  | <b>Purge Volume:</b>         |  | 1 L  |  |
| <b>Pump Flow Rate*:</b>      |       | 0.2 L/min   |  | <b>Purged Vapor PID:</b>     |  | 50.5 ppb   |  |
|                              |       |   |  | <b>Helium Concentration:</b> |  | ND   |  |
| <b>Sample Identification</b> |       |   |  |                              |  |  |  |
| <b>Soil Vapor Point ID:</b>  |       | MP-3  |  | <b>SUMMA® Canister ID:</b>   |  | 4445   |  |
| <b>Flow Controller ID:</b>   |       | 4212  |  | <b>Soil Vapor Sample ID:</b> |  | MP-3_20181120  |  |
| <b>Sample Collection</b>     |       |   |  |                              |  |  |  |
| <b>Time</b>                  |       | <b>Vacuum (in/Hg)</b>   |  | <b>Background PID</b>        |  | <b>Notes</b>   |  |
| <b>Time Started:</b>         | 12:52 | -30   |  | ND                           |  | None   |  |
| <b>Time Halfway:</b>         | 07:38 | -13   |  | ND                           |  | None   |  |
| <b>Time Stopped:</b>         | 13:00 | -5  |  | ND                           |  | None   |  |
| <b>Notes:</b>                |       | *Purge flow rate not to exceed 0.2 L/min.   |  |                              |  |  |  |
|                              |       | ND = non-detect   |  | L/min = Liters per minute    |  | in/Hg = inches of mercury  |  |
|                              |       | Soil vapor sample MP-3_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |  |                              |  |  |  |



## Soil Vapor Sample Log

|                              |       |   |        |                              |  |  |     |
|------------------------------|-------|---|--------|------------------------------|--|--|-----|
| <b>AKRF Project No:</b>      |       | 11901   |        | <b>Client:</b>               |  | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |     |
| <b>Project Location:</b>     |       | 432 East 162nd Street (899 Elton Avenue), Bronx, NY   |        | <b>Sampled By:</b>           |  | V. Chang   |     |
| <b>Date:</b>                 |       | 11/19 - 11/20/18  |        | <b>Weather:</b>              |  | Cloudy 46-50 °F/Cloudy 44-47 °F  |     |
| <b>Sample Setup</b>          |       |   |        |                              |  |  |     |
| <b>Vapor Point Depth:</b>    |       | 9   | Inches | <b>Total Time of Purge:</b>  |  | 5 mins   |     |
| <b>Purging Pump:</b>         |       | Gilair Plus   |        | <b>Purge Volume:</b>         |  | 1 L  |     |
| <b>Pump Flow Rate*:</b>      |       | 0.2   | L/min  | <b>Purged Vapor PID:</b>     |  | 19.9   | ppb |
|                              |       |   |        | <b>Helium Concentration:</b> |  | ND   |     |
| <b>Sample Identification</b> |       |   |        |                              |  |  |     |
| <b>Soil Vapor Point ID:</b>  |       | MP-4  |        | <b>SUMMA® Canister ID:</b>   |  | 5154   |     |
| <b>Flow Controller ID:</b>   |       | 2772  |        | <b>Soil Vapor Sample ID:</b> |  | MP-4_20181120  |     |
| <b>Sample Collection</b>     |       |   |        |                              |  |  |     |
| <b>Time</b>                  |       | <b>Vacuum (in/Hg)</b>   |        | <b>Background PID</b>        |  | <b>Notes</b>   |     |
| <b>Time Started:</b>         | 12:50 | -30   |        | ND                           |  | None   |     |
| <b>Time Stopped:</b>         | 07:45 | -1.5  |        | ND                           |  | None   |     |
| <b>Notes:</b>                |       | *Purge flow rate not to exceed 0.2 L/min.   |        |                              |  |  |     |
|                              |       | ND = non-detect   |        | L/min = Liters per minute    |  | in/Hg = inches of mercury  |     |
|                              |       | Soil vapor sample MP-4_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller. |        |                              |  |  |     |





## Soil Vapor Sample Log

|                              |       |  |        |                              |  |  |     |
|------------------------------|-------|--|--------|------------------------------|--|--|-----|
| <b>AKRF Project No:</b>      |       | 11901  |        | <b>Client:</b>               |  | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |     |
| <b>Project Location:</b>     |       | 432 East 162nd Street (899 Elton Avenue), Bronx, NY  |        | <b>Sampled By:</b>           |  | V. Chang   |     |
| <b>Date:</b>                 |       | 11/19/2018   |        | <b>Weather:</b>              |  | Cloudy 46-50 °F/Cloudy 44-47 °F  |     |
| <b>Sample Setup</b>          |       |  |        |                              |  |  |     |
| <b>Vapor Point Depth:</b>    |       | 9  | Inches | <b>Total Time of Purge:</b>  |  | 5 mins   |     |
| <b>Purging Pump:</b>         |       | Gilair Plus  |        | <b>Purge Volume:</b>         |  | 1 L  |     |
| <b>Pump Flow Rate*:</b>      |       | 0.2  | L/min  | <b>Purged Vapor PID:</b>     |  | 5093   | ppb |
|                              |       |  |        | <b>Helium Concentration:</b> |  | ND   |     |
| <b>Sample Identification</b> |       |  |        |                              |  |  |     |
| <b>Soil Vapor Point ID:</b>  |       | MP-5   |        | <b>SUMMA® Canister ID:</b>   |  | 5621   |     |
| <b>Flow Controller ID:</b>   |       | 4193   |        | <b>Soil Vapor Sample ID:</b> |  | MP-5_20181119  |     |
| <b>Sample Collection</b>     |       |  |        |                              |  |  |     |
| <b>Time</b>                  |       | <b>Vacuum (in/Hg)</b>  |        | <b>Background PID</b>        |  | <b>Notes</b>   |     |
| <b>Time Started:</b>         | 12:56 | -30  |        | 132 ppb                      |  | Paint storage room   |     |
| <b>Time Stopped:</b>         | 14:50 | -3   |        | 55 ppb                       |  | None   |     |
| <b>Notes:</b>                |       | *Purge flow rate not to exceed 0.2 L/min.  |        |                              |  |  |     |
|                              |       | ND = non-detect                      ppb = parts per billion                      L/min = Liters per minute                      in/Hg = inches of mercury |        |                              |  |  |     |
|                              |       | Soil vapor sample MP-5_20181119 collected in a 6-L SUMMA® canister using a 24-hour flow controller.  |        |                              |  |  |     |



# Indoor Air Sample Log

|                          |   |                    |  |
|--------------------------|---|--------------------|--|
| <b>AKRF Project No:</b>  | 11901   | <b>Client:</b>     | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| <b>Project Location:</b> | 432 East 162nd Street (899 Elton Avenue), Bronx, NY |                    |  |
| <b>Date:</b>             | 11/19 - 11/20/18                                    | <b>Sampled By:</b> | V. Chang   |

## Sample Setup

## Sample Identification

|                            |      |                              |               |
|----------------------------|------|------------------------------|---------------|
| <b>On-Site Location:</b>   | IA-1 | <b>SUMMA® Canister ID:</b>   | 3036          |
| <b>Flow Controller ID:</b> | 3294 | <b>Indoor Air Sample ID:</b> | IA-1_20181120 |

## Sample Collection

| Time                 |       | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|----------------------|-------|----------------|----------------|-----------------------------|
| <b>Time Started:</b> | 12:57 | -30            | 46 ppb         | None                        |
| <b>Time Halfway:</b> | 07:46 | -12            | 52 ppb         | None                        |
| <b>Time Stopped:</b> | 15:15 | -3.5           | 63 ppb         | None                        |

Notes:

ppb = parts per billion      in/Hg = inches of mercury  
 Indoor air sample IA-1 20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller.



# Indoor Air Sample Log

|                          |   |                    |  |
|--------------------------|---|--------------------|--|
| <b>AKRF Project No:</b>  | 11901   | <b>Client:</b>     | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| <b>Project Location:</b> | 432 East 162nd Street (899 Elton Avenue), Bronx, NY |                    |  |
| <b>Date:</b>             | 11/19 - 11/20/18                                    | <b>Sampled By:</b> | V. Chang   |

## Sample Setup

## Sample Identification

|                            |      |                                       |               |
|----------------------------|------|---------------------------------------|---------------|
| <b>On-Site Location:</b>   | IA-2 | <b>SUMMA<sup>®</sup> Canister ID:</b> | 3424          |
| <b>Flow Controller ID:</b> | 3167 | <b>Indoor Air Sample ID:</b>          | IA-2_20181120 |

## Sample Collection

| Time                 |       | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|----------------------|-------|----------------|----------------|-----------------------------|
| <b>Time Started:</b> | 12:53 | -27            | ND             | None                        |
| <b>Time Halfway:</b> | 07:36 | -11.5          | ND             | None                        |
| <b>Time Stopped:</b> | 12:54 | -4             | ND             | None                        |

**Notes:**

ND = non-detect                      ppb = parts per billion                      in/Hg = inches of mercury  
 Indoor air sample IA-2 20181120 collected in a 6-L SUMMA<sup>®</sup> canister using a 24-hour flow controller.



## Indoor Air Sample Log

|                          |   |                    |  |
|--------------------------|---|--------------------|--|
| <b>AKRF Project No:</b>  | 11901   | <b>Client:</b>     | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| <b>Project Location:</b> | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | <b>Sampled By:</b> | V. Chang   |
| <b>Date:</b>             | 11/19 - 11/20/18                                    |                    |  |

### Sample Setup

### Sample Identification

|                            |      |                                       |               |
|----------------------------|------|---------------------------------------|---------------|
| <b>On-Site Location:</b>   | IA-3 | <b>SUMMA<sup>®</sup> Canister ID:</b> | 5982          |
| <b>Flow Controller ID:</b> | 2807 | <b>Indoor Air Sample ID:</b>          | IA-3_20181120 |

### Sample Collection

| Time                 |       | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|----------------------|-------|----------------|----------------|-----------------------------|
| <b>Time Started:</b> | 12:51 | -29            | ND             | None                        |
| <b>Time Halfway:</b> | 07:38 | -12            | ND             | None                        |
| <b>Time Stopped:</b> | 13:00 | -5.5           | ND             | None                        |

**Notes:**

ND = non-detect                      ppb = parts per billion                      in/Hg = inches of mercury  
 Indoor air sample IA-3 20181120 collected in a 6-L SUMMA<sup>®</sup> canister using a 24-hour flow controller.



# Indoor Air Sample Log

|                          |   |                    |  |
|--------------------------|---|--------------------|--|
| <b>AKRF Project No:</b>  | 11901   | <b>Client:</b>     | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| <b>Project Location:</b> | 432 East 162nd Street (899 Elton Avenue), Bronx, NY |                    |  |
| <b>Date:</b>             | 11/19 - 11/20/18                                    | <b>Sampled By:</b> | V. Chang   |

### Sample Setup

### Sample Identification

|                            |      |                              |               |
|----------------------------|------|------------------------------|---------------|
| <b>On-Site Location:</b>   | IA-4 | <b>SUMMA® Canister ID:</b>   | 5017          |
| <b>Flow Controller ID:</b> | 3188 | <b>Indoor Air Sample ID:</b> | IA-4_20181120 |

### Sample Collection

| Time                 |       | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|----------------------|-------|----------------|----------------|-----------------------------|
| <b>Time Started:</b> | 12:49 | -30            | ND             | None                        |
| <b>Time Halfway:</b> | 07:40 | -13            | ND             | None                        |
| <b>Time Stopped:</b> | 13:01 | -7             | ND             | None                        |

**Notes:**

ND = non-detect                      ppb = parts per billion                      in/Hg = inches of mercury  
 Indoor air sample IA-4\_20181120 collected in a 6-L SUMMA® canister using a 24-hour flow controller.



## Indoor Air Sample Log

|                          |   |                    |  |
|--------------------------|---|--------------------|--|
| <b>AKRF Project No:</b>  | 11901   | <b>Client:</b>     | Elton Crossing Associates, L.P., Elton Crossing Moderate Associates, LLC, and Elton Crossing LIHTC Associates, LLC |
| <b>Project Location:</b> | 432 East 162nd Street (899 Elton Avenue), Bronx, NY | <b>Sampled By:</b> | V. Chang   |
| <b>Date:</b>             | 11/19 - 11/20/18                                    |                    |  |

### Sample Setup

### Sample Identification

|                            |      |                                       |               |
|----------------------------|------|---------------------------------------|---------------|
| <b>On-Site Location:</b>   | IA-5 | <b>SUMMA<sup>®</sup> Canister ID:</b> | 5634          |
| <b>Flow Controller ID:</b> | 3664 | <b>Indoor Air Sample ID:</b>          | IA-5_20181120 |

### Sample Collection

| Time                 |       | Vacuum (in/Hg) | Background PID | Potential VOC Sources/Notes |
|----------------------|-------|----------------|----------------|-----------------------------|
| <b>Time Started:</b> | 12:55 | -29            | 132 ppb        | None                        |
| <b>Time Halfway:</b> | 07:44 | -11.5          | 82 ppb         | None                        |
| <b>Time Stopped:</b> | 12:58 | -3             | 55 ppb         | None                        |

**Notes:**

ppb = parts per billion                      in/Hg = inches of mercury

Indoor air sample IA-5 20181120 collected in a 6-L SUMMA<sup>®</sup> canister using a 24-hour flow controller.

**APPENDIX E**  
**LABORATORY ANALYTICAL DATA SHEETS**

## ANALYTICAL REPORT

Job Number: 200-46353-1  
SDG Number: 200-46353-1  
Job Description: Elton Crossing

For:  
AKRF Inc  
440 Park Avenue South  
7th Floor  
New York, NY 10016  
Attention: Amy Jordan



Approved for release.  
Kristine A Dusablon  
Project Manager II  
12/10/2018 5:58 PM

---

Kristine A Dusablon, Project Manager II  
30 Community Drive, South Burlington, VT, 05403  
(802)660-1990  
kris.dusablon@testamericainc.com  
12/10/2018

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory



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# Definitions/Glossary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Qualifiers

### Air - GC/MS VOA

| Qualifier | Qualifier Description   |
|-----------|---|
| U         | Indicates the analyte was analyzed for but not detected.  |
| E         | Result exceeded calibration range.  |
| D         | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains No Free Liquid   |
| DER            | Duplicate Error Ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL             | Detection Limit (DoD/DOE)   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |
| LOD            | Limit of Detection (DoD/DOE)  |
| LOQ            | Limit of Quantitation (DoD/DOE)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative Error Ratio (Radiochemistry)   |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

## CASE NARRATIVE

Client: AKRF Inc

Project: Elton Crossing

Report Number: 200-46353-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 11/23/2018; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that sample AA-1\_20181120 (200-46353-1) was received at an elevated residual vacuum level, while samples MP-4\_20181120 (200-46353-10) and MP-5\_20181119 (200-46353-11) were found to be received at ambient pressure. The associated flow controllers were evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate.

During the canister pressure check performed upon receipt, it was observed that sample MP-1\_20181120 (200-46353-7) was received at an elevated residual vacuum level. The associated flow controller was evaluated upon receipt and was found to be outside the set flow and possible clogged.

### VOLATILE ORGANIC COMPOUNDS

Samples AA-1\_20181120 (200-46353-1), IA-1\_20181120 (200-46353-2), IA-2\_20181120 (200-46353-3), IA-3\_20181120 (200-46353-4), IA-4\_20181120 (200-46353-5), IA-5\_20181120 (200-46353-6), MP-1\_20181120 (200-46353-7), MP-2\_20181120 (200-46353-8), MP-3\_20181120 (200-46353-9), MP-4\_20181120 (200-46353-10) and MP-5\_20181119 (200-46353-11) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/06/2018 and 12/07/2018.

Samples IA-1\_20181120 (200-46353-2)[10X], IA-5\_20181120 (200-46353-6)[4X], MP-1\_20181120 (200-46353-7)[50X] and MP-2\_20181120 (200-46353-8)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MP-1\_20181120 (200-46353-7) and MP-2\_20181120 (200-46353-8) were diluted due to the abundance of non-target analytes. A more concentrated analysis was not possible.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**

**Lab Sample ID: 200-46353-1**

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.58   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 0.50   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.54   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 2.0    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 0.25   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 6.5    |           | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.26   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 0.83   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.25   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.036  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.36   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 0.80   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

| Analyte                          | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 2.9    |           | 2.5  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 1.8    |           | 1.8  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.1    |           | 1.0  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 4.8    |           | 1.2  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.4    |           | 1.1  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 16     |           | 12   |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.93   |           | 0.70 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 2.4    |           | 1.5  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.87   |           | 0.69 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.23   |           | 0.22 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 1.1    |           | 0.64 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.84   |           | 0.82 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 3.0    |           | 0.75 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.53   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.52   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 2.2    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 0.22   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 200    | E         | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.23   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 0.91   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloroform                       | 0.80   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.22   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.058  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.30   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 0.74   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 2.0    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 11     |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 3.7    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Styrene                          | 0.24   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone - DL                     | 130    | D         | 50    |     | ppb v/v | 10      |   | TO-15  | Total/NA  |
| m,p-Xylene - DL                  | 8.8    | D         | 5.0   |     | ppb v/v | 10      |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Client Sample ID: IA-1\_20181120 (Continued)

## Lab Sample ID: 200-46353-2

| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| o-Xylene - DL                    | 3.0    | D         | 2.0  |     | ppb v/v | 10      |   | TO-15  | Total/NA  |
| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane          | 2.6    |           | 2.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.1    |           | 1.0  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 5.1    |           | 1.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.2    |           | 1.1  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 480    | E         | 12   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.81   |           | 0.70 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 2.7    |           | 1.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloroform                       | 3.9    |           | 0.98 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.76   |           | 0.69 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.37   |           | 0.22 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.96   |           | 0.64 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 2.8    |           | 0.75 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 8.7    |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 46     |           | 2.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 16     |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Styrene                          | 1.0    |           | 0.85 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 0.96   |           | 0.98 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone - DL                     | 310    | D         | 120  |     | ug/m3   | 10      |   | TO-15  | Total/NA  |
| m,p-Xylene - DL                  | 38     | D         | 22   |     | ug/m3   | 10      |   | TO-15  | Total/NA  |
| o-Xylene - DL                    | 13     | D         | 8.7  |     | ug/m3   | 10      |   | TO-15  | Total/NA  |

## Client Sample ID: IA-2\_20181120

## Lab Sample ID: 200-46353-3

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.58   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 0.57   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.55   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 2.3    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 0.27   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 5.7    |           | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.42   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 2.1    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.30   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.070  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 0.32   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.39   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 0.93   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane          | 2.9    |           | 2.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 2.0    |           | 1.8   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.1    |           | 1.0   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 5.6    |           | 1.2   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.5    |           | 1.1   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 13     |           | 12    |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 1.5    |           | 0.70  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 6.2    |           | 1.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 1.0    |           | 0.69  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.44   |           | 0.22  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Client Sample ID: IA-2\_20181120 (Continued)

## Lab Sample ID: 200-46353-3

| Analyte                | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| 2,2,4-Trimethylpentane | 1.5    |           | 0.93 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Benzene                | 1.2    |           | 0.64 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Toluene                | 3.5    |           | 0.75 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |

## Client Sample ID: IA-3\_20181120

## Lab Sample ID: 200-46353-4

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.51   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.66   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 2.4    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 0.22   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 9.2    |           | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.47   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 1.8    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.35   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.053  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 0.22   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.32   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 0.90   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 0.68   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 0.27   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

| Analyte                          | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 2.5    |           | 2.5  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.4    |           | 1.0  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 5.7    |           | 1.2  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.2    |           | 1.1  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 22     |           | 12   |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 1.7    |           | 0.70 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 5.2    |           | 1.5  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 1.2    |           | 0.69 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.34   |           | 0.22 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 1.0    |           | 0.93 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 1.0    |           | 0.64 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.82   |           | 0.82 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 3.4    |           | 0.75 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 0.86   |           | 0.87 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 3.0    |           | 2.2  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 1.2    |           | 0.87 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |

## Client Sample ID: IA-4\_20181120

## Lab Sample ID: 200-46353-5

| Analyte                 | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane | 0.51   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane           | 5.5    |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                | 4.0    |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane  | 0.22   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                 | 11     |           | 5.0  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                | 0.77   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Client Sample ID: IA-4\_20181120 (Continued)

## Lab Sample ID: 200-46353-5

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Methyl Ethyl Ketone (2-Butanone) | 1.4    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.28   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.046  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.30   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.21   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 0.92   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane          | 2.5    |           | 2.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 11     |           | 1.0   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 9.6    |           | 1.2   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.2    |           | 1.1   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 26     |           | 12    |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 2.7    |           | 0.70  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 4.0    |           | 1.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.95   |           | 0.69  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.29   |           | 0.22  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 0.93   |           | 0.93  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.97   |           | 0.64  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 0.87   |           | 0.82  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 3.5    |           | 0.75  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

## Client Sample ID: IA-5\_20181120

## Lab Sample ID: 200-46353-6

| Analyte                                       | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|---|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane                       | 0.51   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                                 | 0.62   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                                      | 2.4    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane                        | 0.22   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                                       | 100    | E         | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                                      | 0.38   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone)              | 3.5    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                                   | 0.39   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride                          | 0.061  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                                       | 0.31   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                                     | 0.20   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.58   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                                       | 0.78   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                                  | 1.3    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                                    | 6.1    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                                      | 2.1    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane - DL                                 | 2.5    | D         | 2.0   |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| Acetone - DL                                  | 120    | D         | 20    |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) - DL         | 3.3    | D         | 2.0   |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| Ethylbenzene - DL                             | 1.3    | D         | 0.80  |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| m,p-Xylene - DL                               | 6.2    | D         | 2.0   |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| o-Xylene - DL                                 | 2.1    | D         | 0.80  |     | ppb v/v | 4       |   | TO-15  | Total/NA  |
| Analyte                                       | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane                       | 2.5    |           | 2.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.



# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Client Sample ID: IA-5\_20181120 (Continued)

## Lab Sample ID: 200-46353-6

| Analyte                                       | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|---|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloromethane                                 | 1.3    |           | 1.0  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Butane                                      | 5.6    |           | 1.2  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane                        | 1.3    |           | 1.1  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Acetone                                       | 240    | E         | 12   |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Hexane                                      | 1.3    |           | 0.70 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone)              | 10     |           | 1.5  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                                   | 1.3    |           | 0.69 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride                          | 0.39   |           | 0.22 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Benzene                                       | 0.98   |           | 0.64 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Heptane                                     | 0.83   |           | 0.82 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.4    |           | 2.0  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Toluene                                       | 3.0    |           | 0.75 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                                  | 5.5    |           | 0.87 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                                    | 26     |           | 2.2  |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| o-Xylene                                      | 9.3    |           | 0.87 |     | ug/m3 | 1       |   | TO-15  | Total/NA  |
| n-Butane - DL                                 | 6.0    | D         | 4.8  |     | ug/m3 | 4       |   | TO-15  | Total/NA  |
| Acetone - DL                                  | 290    | D         | 48   |     | ug/m3 | 4       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) - DL         | 9.7    | D         | 5.9  |     | ug/m3 | 4       |   | TO-15  | Total/NA  |
| Ethylbenzene - DL                             | 5.4    | D         | 3.5  |     | ug/m3 | 4       |   | TO-15  | Total/NA  |
| m,p-Xylene - DL                               | 27     | D         | 8.7  |     | ug/m3 | 4       |   | TO-15  | Total/NA  |
| o-Xylene - DL                                 | 9.0    | D         | 3.5  |     | ug/m3 | 4       |   | TO-15  | Total/NA  |

## Client Sample ID: MP-1\_20181120

## Lab Sample ID: 200-46353-7

| Analyte    | Result | Qualifier | RL | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|----|-----|---------|---------|---|--------|-----------|
| Chloroform | 62     |           | 10 |     | ppb v/v | 50      |   | TO-15  | Total/NA  |
| Analyte    | Result | Qualifier | RL | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Chloroform | 300    |           | 49 |     | ug/m3   | 50      |   | TO-15  | Total/NA  |

## Client Sample ID: MP-2\_20181120

## Lab Sample ID: 200-46353-8

| Analyte   | Result | Qualifier | RL  | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|-----------|--------|-----------|-----|-----|---------|---------|---|--------|-----------|
| n-Heptane | 4.2    |           | 4.0 |     | ppb v/v | 20      |   | TO-15  | Total/NA  |
| Analyte   | Result | Qualifier | RL  | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| n-Heptane | 17     |           | 16  |     | ug/m3   | 20      |   | TO-15  | Total/NA  |

## Client Sample ID: MP-3\_20181120

## Lab Sample ID: 200-46353-9

| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.86   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 0.76   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.63   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 2.2    |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 2.5    |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 34     |           | 5.0  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 0.99   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 1.6    |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloroform                       | 0.99   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.80   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-3\_20181120 (Continued)**

**Lab Sample ID: 200-46353-9**

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Carbon tetrachloride             | 0.053  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.24   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 4.4    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichloroethene                  | 0.23   |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 3.6    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Tetrachloroethene                | 1.7    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Butyl Ketone (2-Hexanone) | 1.3    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 0.38   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 1.1    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 0.47   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 0.40   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane          | 4.3    |           | 2.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 2.7    |           | 1.8   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.3    |           | 1.0   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 5.1    |           | 1.2   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 14     |           | 1.1   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 82     |           | 12    |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 3.5    |           | 0.70  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 4.6    |           | 1.5   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloroform                       | 4.8    |           | 0.98  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 2.7    |           | 0.69  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.33   |           | 0.22  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.76   |           | 0.64  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 18     |           | 0.82  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichloroethene                  | 1.2    |           | 0.19  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 14     |           | 0.75  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Tetrachloroethene                | 12     |           | 1.4   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Butyl Ketone (2-Hexanone) | 5.5    |           | 2.0   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 1.6    |           | 0.87  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 5.0    |           | 2.2   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 2.0    |           | 0.87  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 2.0    |           | 0.98  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

**Client Sample ID: MP-4\_20181120**

**Lab Sample ID: 200-46353-10**

| Analyte                          | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane          | 0.58   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 0.53   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 0.54   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 3.6    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 0.31   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 28     |           | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon disulfide                 | 1.2    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 1.0    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 2.5    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 0.52   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.079  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 0.31   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 0.48   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-4\_20181120 (Continued)**

**Lab Sample ID: 200-46353-10**

| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|----------------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| n-Heptane                        | 1.7    |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 2.2    |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Tetrachloroethene                | 0.32   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Butyl Ketone (2-Hexanone) | 0.78   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 0.28   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 0.97   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 0.41   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 0.29   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane          | 2.9    |           | 2.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chlorodifluoromethane            | 1.9    |           | 1.8  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                    | 1.1    |           | 1.0  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                         | 8.6    |           | 1.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane           | 1.7    |           | 1.1  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                          | 66     |           | 12   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon disulfide                 | 3.7    |           | 1.6  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                         | 3.6    |           | 0.70 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone) | 7.5    |           | 1.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                      | 1.8    |           | 0.69 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride             | 0.50   |           | 0.22 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 2,2,4-Trimethylpentane           | 1.4    |           | 0.93 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Benzene                          | 1.5    |           | 0.64 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Heptane                        | 6.8    |           | 0.82 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Toluene                          | 8.2    |           | 0.75 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Tetrachloroethene                | 2.2    |           | 1.4  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Butyl Ketone (2-Hexanone) | 3.2    |           | 2.0  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                     | 1.2    |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                       | 4.2    |           | 2.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| o-Xylene                         | 1.8    |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 1,2,4-Trimethylbenzene           | 1.4    |           | 0.98 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

**Client Sample ID: MP-5\_20181119**

**Lab Sample ID: 200-46353-11**

| Analyte                                       | Result | Qualifier | RL    | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|---|--------|-----------|-------|-----|---------|---------|---|--------|-----------|
| Dichlorodifluoromethane                       | 0.62   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloromethane                                 | 1.1    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Butane                                      | 2.1    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane                        | 0.39   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Acetone                                       | 17     |           | 5.0   |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon disulfide                              | 2.4    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Hexane                                      | 0.43   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone)              | 6.9    |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Chloroform                                    | 0.21   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                                   | 0.32   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride                          | 0.094  |           | 0.035 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Benzene                                       | 0.40   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| n-Heptane                                     | 0.61   |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.86   |           | 0.50  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Toluene                                       | 1.1    |           | 0.20  |     | ppb v/v | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-5\_20181119 (Continued)**

**Lab Sample ID: 200-46353-11**

| Analyte                                       | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
|---|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Tetrachloroethene                             | 0.36   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                                  | 0.34   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                                    | 0.76   |           | 0.50 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| o-Xylene                                      | 0.22   |           | 0.20 |     | ppb v/v | 1       |   | TO-15  | Total/NA  |
| Analyte                                       | Result | Qualifier | RL   | MDL | Unit    | Dil Fac | D | Method | Prep Type |
| Dichlorodifluoromethane                       | 3.1    |           | 2.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloromethane                                 | 2.3    |           | 1.0  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Butane                                      | 5.1    |           | 1.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Trichlorofluoromethane                        | 2.2    |           | 1.1  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Acetone                                       | 41     |           | 12   |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon disulfide                              | 7.5    |           | 1.6  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Hexane                                      | 1.5    |           | 0.70 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Methyl Ethyl Ketone (2-Butanone)              | 20     |           | 1.5  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Chloroform                                    | 1.0    |           | 0.98 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Cyclohexane                                   | 1.1    |           | 0.69 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Carbon tetrachloride                          | 0.59   |           | 0.22 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Benzene                                       | 1.3    |           | 0.64 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| n-Heptane                                     | 2.5    |           | 0.82 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 3.5    |           | 2.0  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Toluene                                       | 4.3    |           | 0.75 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Tetrachloroethene                             | 2.4    |           | 1.4  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| Ethylbenzene                                  | 1.5    |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| m,p-Xylene                                    | 3.3    |           | 2.2  |     | ug/m3   | 1       |   | TO-15  | Total/NA  |
| o-Xylene                                      | 0.94   |           | 0.87 |     | ug/m3   | 1       |   | TO-15  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                                       | Result | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane                       | 0.58   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Chlorodifluoromethane                         | 0.50   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichlorotetrafluoroethane                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Chloromethane                                 | 0.54   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| n-Butane                                      | 2.0    |           | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Vinyl chloride                                | 0.078  | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,3-Butadiene                                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Bromomethane                                  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Chloroethane                                  | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Trichlorofluoromethane                        | 0.25   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1-Dichloroethene                            | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Acetone                                       | 6.5    |           | 5.0   |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Isopropyl alcohol                             | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Carbon disulfide                              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 3-Chloropropene                               | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Methylene Chloride                            | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| tert-Butyl alcohol                            | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Methyl tert-butyl ether                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| trans-1,2-Dichloroethene                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| n-Hexane                                      | 0.26   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 0.83   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| cis-1,2-Dichloroethene                        | 0.050  | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Chloroform                                    | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Tetrahydrofuran                               | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1,1-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Cyclohexane                                   | 0.25   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Carbon tetrachloride                          | 0.036  |           | 0.035 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 2,2,4-Trimethylpentane                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Benzene                                       | 0.36   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| n-Heptane                                     | 0.20   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Trichloroethene                               | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Methyl methacrylate                           | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichloropropane                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,4-Dioxane                                   | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Bromodichloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| cis-1,3-Dichloropropene                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Toluene                                       | 0.80   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| trans-1,3-Dichloropropene                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1,2-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Tetrachloroethene                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Dibromochloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                        | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,2-Dibromoethane              | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Chlorobenzene                  | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Ethylbenzene                   | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| m,p-Xylene                     | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| o-Xylene                       | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Styrene                        | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Bromoform                      | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Cumene                         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,1,2,2-Tetrachloroethane      | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| n-Propylbenzene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 4-Ethyltoluene                 | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,3,5-Trimethylbenzene         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 2-Chlorotoluene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| tert-Butylbenzene              | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2,4-Trimethylbenzene         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| sec-Butylbenzene               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 4-Isopropyltoluene             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,3-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,4-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Benzyl chloride                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| n-Butylbenzene                 | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| 1,2,4-Trichlorobenzene         | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Hexachlorobutadiene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Naphthalene                    | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 03:30 | 1       |
| Analyte                        | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b> | <b>2.9</b>  |           | 2.5  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>Chlorodifluoromethane</b>   | <b>1.8</b>  |           | 1.8  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 1.4         | U         | 1.4  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>Chloromethane</b>           | <b>1.1</b>  |           | 1.0  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>n-Butane</b>                | <b>4.8</b>  |           | 1.2  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Vinyl chloride                 | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| 1,3-Butadiene                  | 0.44        | U         | 0.44 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Bromomethane                   | 0.78        | U         | 0.78 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Chloroethane                   | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.87        | U         | 0.87 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>Trichlorofluoromethane</b>  | <b>1.4</b>  |           | 1.1  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 1.5         | U         | 1.5  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| 1,1-Dichloroethene             | 0.14        | U         | 0.14 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>Acetone</b>                 | <b>16</b>   |           | 12   |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Isopropyl alcohol              | 12          | U         | 12   |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Carbon disulfide               | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| 3-Chloropropene                | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Methylene Chloride             | 1.7         | U         | 1.7  |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| tert-Butyl alcohol             | 15          | U         | 15   |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| Methyl tert-butyl ether        | 0.72        | U         | 0.72 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| trans-1,2-Dichloroethene       | 0.79        | U         | 0.79 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |
| <b>n-Hexane</b>                | <b>0.93</b> |           | 0.70 |     | ug/m3   |   |          | 12/06/18 03:30 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| 1,1-Dichloroethane                            | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>2.4</b>  |           | 1.5  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| cis-1,2-Dichloroethene                        | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Chloroform                                    | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Tetrahydrofuran                               | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,1,1-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>Cyclohexane</b>                            | <b>0.87</b> |           | 0.69 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.23</b> |           | 0.22 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 2,2,4-Trimethylpentane                        | 0.93        | U         | 0.93 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>Benzene</b>                                | <b>1.1</b>  |           | 0.64 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichloroethane                            | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>n-Heptane</b>                              | <b>0.84</b> |           | 0.82 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Trichloroethene                               | 0.19        | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Methyl methacrylate                           | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichloropropane                           | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,4-Dioxane                                   | 18          | U         | 18   |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Bromodichloromethane                          | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| cis-1,3-Dichloropropene                       | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| <b>Toluene</b>                                | <b>3.0</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| trans-1,3-Dichloropropene                     | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,1,2-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Tetrachloroethene                             | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Dibromochloromethane                          | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dibromoethane                             | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Chlorobenzene                                 | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Ethylbenzene                                  | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| m,p-Xylene                                    | 2.2         | U         | 2.2  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| o-Xylene                                      | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Styrene                                       | 0.85        | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Bromoform                                     | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Cumene  | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| n-Propylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 4-Ethyltoluene                                | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 2-Chlorotoluene                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| tert-Butylbenzene                             | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| sec-Butylbenzene                              | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 4-Isopropyltoluene                            | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,3-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,4-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Benzyl chloride                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| n-Butylbenzene                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**

**Lab Sample ID: 200-46353-1**

**Date Collected: 11/20/18 16:27**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte             | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Hexachlorobutadiene | 2.1    | U         | 2.1 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |
| Naphthalene         | 2.6    | U         | 2.6 |     | ug/m3 |   |          | 12/06/18 03:30 | 1       |

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                                 | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>          | <b>0.53</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Chlorodifluoromethane                   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Chloromethane</b>                    | <b>0.52</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>n-Butane</b>                         | <b>2.2</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Vinyl chloride                          | 0.078        | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,3-Butadiene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Bromomethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Chloroethane                            | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>0.22</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1-Dichloroethene                      | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Acetone</b>                          | <b>200</b>   | <b>E</b>  | 5.0   |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Isopropyl alcohol                       | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Carbon disulfide                        | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 3-Chloropropene                         | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Methylene Chloride                      | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| tert-Butyl alcohol                      | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Methyl tert-butyl ether                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| trans-1,2-Dichloroethene                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>n-Hexane</b>                         | <b>0.23</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1-Dichloroethane                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>0.91</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| cis-1,2-Dichloroethene                  | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Chloroform</b>                       | <b>0.80</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Tetrahydrofuran                         | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1,1-Trichloroethane                   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Cyclohexane</b>                      | <b>0.22</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Carbon tetrachloride</b>             | <b>0.058</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 2,2,4-Trimethylpentane                  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Benzene</b>                          | <b>0.30</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichloroethane                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| n-Heptane                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Trichloroethene                         | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Methyl methacrylate                     | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichloropropane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,4-Dioxane                             | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Bromodichloromethane                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| cis-1,3-Dichloropropene                       | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Toluene</b>                                | <b>0.74</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| trans-1,3-Dichloropropene                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1,2-Trichloroethane                         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Tetrachloroethene                             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Dibromochloromethane                          | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dibromoethane                             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Chlorobenzene                                 | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Ethylbenzene</b>                           | <b>2.0</b>  |           | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>m,p-Xylene</b>                             | <b>11</b>   |           | 0.50 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>o-Xylene</b>                               | <b>3.7</b>  |           | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>Styrene</b>                                | <b>0.24</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Bromoform                                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Cumene  | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| n-Propylbenzene                               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 4-Ethyltoluene                                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 2-Chlorotoluene                               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| tert-Butylbenzene                             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| <b>1,2,4-Trimethylbenzene</b>                 | <b>0.20</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| sec-Butylbenzene                              | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 4-Isopropyltoluene                            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,3-Dichlorobenzene                           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,4-Dichlorobenzene                           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Benzyl chloride                               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| n-Butylbenzene                                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichlorobenzene                           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| 1,2,4-Trichlorobenzene                        | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Hexachlorobutadiene                           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Naphthalene                                   | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 04:21 | 1       |
| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b>                | <b>2.6</b>  |           | 2.5  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| Chlorodifluoromethane                         | 1.8         | U         | 1.8  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichlorotetrafluoroethane                 | 1.4         | U         | 1.4  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| <b>Chloromethane</b>                          | <b>1.1</b>  |           | 1.0  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| <b>n-Butane</b>                               | <b>5.1</b>  |           | 1.2  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| Vinyl chloride                                | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| 1,3-Butadiene                                 | 0.44        | U         | 0.44 |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| Bromomethane                                  | 0.78        | U         | 0.78 |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| Chloroethane                                  | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.87        | U         | 0.87 |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| <b>Trichlorofluoromethane</b>                 | <b>1.2</b>  |           | 1.1  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 1.5         | U         | 1.5  |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |
| 1,1-Dichloroethene                            | 0.14        | U         | 0.14 |     | ug/m3   |   |          | 12/06/18 04:21 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Acetone</b>                                | <b>480</b>  | <b>E</b>  | 12   |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Isopropyl alcohol                             | 12          | U         | 12   |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Carbon disulfide                              | 1.6         | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 3-Chloropropene                               | 1.6         | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Methylene Chloride                            | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| tert-Butyl alcohol                            | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Methyl tert-butyl ether                       | 0.72        | U         | 0.72 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| trans-1,2-Dichloroethene                      | 0.79        | U         | 0.79 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>n-Hexane</b>                               | <b>0.81</b> |           | 0.70 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,1-Dichloroethane                            | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>2.7</b>  |           | 1.5  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| cis-1,2-Dichloroethene                        | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Chloroform</b>                             | <b>3.9</b>  |           | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Tetrahydrofuran                               | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,1,1-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Cyclohexane</b>                            | <b>0.76</b> |           | 0.69 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.37</b> |           | 0.22 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 2,2,4-Trimethylpentane                        | 0.93        | U         | 0.93 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Benzene</b>                                | <b>0.96</b> |           | 0.64 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichloroethane                            | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| n-Heptane                                     | 0.82        | U         | 0.82 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Trichloroethene                               | 0.19        | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Methyl methacrylate                           | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichloropropane                           | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,4-Dioxane                                   | 18          | U         | 18   |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Bromodichloromethane                          | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| cis-1,3-Dichloropropene                       | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Toluene</b>                                | <b>2.8</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| trans-1,3-Dichloropropene                     | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,1,2-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Tetrachloroethene                             | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Dibromochloromethane                          | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dibromoethane                             | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Chlorobenzene                                 | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Ethylbenzene</b>                           | <b>8.7</b>  |           | 0.87 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>m,p-Xylene</b>                             | <b>46</b>   |           | 2.2  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>o-Xylene</b>                               | <b>16</b>   |           | 0.87 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| <b>Styrene</b>                                | <b>1.0</b>  |           | 0.85 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Bromoform                                     | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Cumene  | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| n-Propylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 4-Ethyltoluene                                | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 2-Chlorotoluene                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| tert-Butylbenzene                             | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                       | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>1,2,4-Trimethylbenzene</b> | <b>0.96</b> |           | 0.98 |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| sec-Butylbenzene              | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 4-Isopropyltoluene            | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,3-Dichlorobenzene           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,4-Dichlorobenzene           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Benzyl chloride               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| n-Butylbenzene                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,2-Dichlorobenzene           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| 1,2,4-Trichlorobenzene        | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Hexachlorobutadiene           | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |
| Naphthalene                   | 2.6         | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 04:21 | 1       |

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL**

| Analyte                          | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane          | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Chlorodifluoromethane            | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichlorotetrafluoroethane    | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Chloromethane                    | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| n-Butane                         | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Vinyl chloride                   | 0.78       | U         | 0.78 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,3-Butadiene                    | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Bromomethane                     | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Chloroethane                     | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Bromoethene(Vinyl Bromide)       | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Trichlorofluoromethane           | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1,2-Trichlorotrifluoroethane   | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1-Dichloroethene               | 0.35       | U         | 0.35 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| <b>Acetone</b>                   | <b>130</b> | <b>D</b>  | 50   |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Isopropyl alcohol                | 50         | U         | 50   |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Carbon disulfide                 | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 3-Chloropropene                  | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Methylene Chloride               | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| tert-Butyl alcohol               | 50         | U         | 50   |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Methyl tert-butyl ether          | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| trans-1,2-Dichloroethene         | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| n-Hexane                         | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1-Dichloroethane               | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Methyl Ethyl Ketone (2-Butanone) | 5.0        | U         | 5.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| cis-1,2-Dichloroethene           | 0.50       | U         | 0.50 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Chloroform                       | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Tetrahydrofuran                  | 50         | U         | 50   |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1,1-Trichloroethane            | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Cyclohexane                      | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Carbon tetrachloride             | 0.35       | U         | 0.35 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 2,2,4-Trimethylpentane           | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Benzene                          | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichloroethane               | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| n-Heptane                        | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Trichloroethene                  | 0.35       | U         | 0.35 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                                       | Result     | Qualifier | RL  | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Methyl methacrylate                           | 5.0        | U         | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichloropropane                           | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,4-Dioxane                                   | 50         | U         | 50  |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Bromodichloromethane                          | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| cis-1,3-Dichloropropene                       | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 5.0        | U         | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Toluene                                       | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| trans-1,3-Dichloropropene                     | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1,2-Trichloroethane                         | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Tetrachloroethene                             | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Methyl Butyl Ketone (2-Hexanone)              | 5.0        | U         | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Dibromochloromethane                          | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dibromoethane                             | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Chlorobenzene                                 | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Ethylbenzene                                  | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| <b>m,p-Xylene</b>                             | <b>8.8</b> | <b>D</b>  | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| <b>o-Xylene</b>                               | <b>3.0</b> | <b>D</b>  | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Styrene                                       | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Bromoform                                     | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Cumene  | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,1,2,2-Tetrachloroethane                     | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| n-Propylbenzene                               | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 4-Ethyltoluene                                | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,3,5-Trimethylbenzene                        | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 2-Chlorotoluene                               | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| tert-Butylbenzene                             | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2,4-Trimethylbenzene                        | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| sec-Butylbenzene                              | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 4-Isopropyltoluene                            | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,3-Dichlorobenzene                           | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,4-Dichlorobenzene                           | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Benzyl chloride                               | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| n-Butylbenzene                                | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichlorobenzene                           | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| 1,2,4-Trichlorobenzene                        | 5.0        | U         | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Hexachlorobutadiene                           | 2.0        | U         | 2.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Naphthalene                                   | 5.0        | U         | 5.0 |     | ppb v/v |   |          | 12/07/18 16:45 | 10      |
| Analyte                                       | Result     | Qualifier | RL  | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| Dichlorodifluoromethane                       | 25         | U         | 25  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| Chlorodifluoromethane                         | 18         | U         | 18  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichlorotetrafluoroethane                 | 14         | U         | 14  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| Chloromethane                                 | 10         | U         | 10  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| n-Butane                                      | 12         | U         | 12  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| Vinyl chloride                                | 2.0        | U         | 2.0 |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| 1,3-Butadiene                                 | 4.4        | U         | 4.4 |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| Bromomethane                                  | 7.8        | U         | 7.8 |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |
| Chloroethane                                  | 13         | U         | 13  |     | ug/m3   |   |          | 12/07/18 16:45 | 10      |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                                       | Result     | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Bromoethene(Vinyl Bromide)                    | 8.7        | U         | 8.7 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Trichlorofluoromethane                        | 11         | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1,2-Trichlorotrifluoroethane                | 15         | U         | 15  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1-Dichloroethene                            | 1.4        | U         | 1.4 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| <b>Acetone</b>                                | <b>310</b> | <b>D</b>  | 120 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Isopropyl alcohol                             | 120        | U         | 120 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Carbon disulfide                              | 16         | U         | 16  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 3-Chloropropene                               | 16         | U         | 16  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Methylene Chloride                            | 17         | U         | 17  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| tert-Butyl alcohol                            | 150        | U         | 150 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Methyl tert-butyl ether                       | 7.2        | U         | 7.2 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| trans-1,2-Dichloroethene                      | 7.9        | U         | 7.9 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| n-Hexane                                      | 7.0        | U         | 7.0 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1-Dichloroethane                            | 8.1        | U         | 8.1 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Methyl Ethyl Ketone (2-Butanone)              | 15         | U         | 15  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| cis-1,2-Dichloroethene                        | 2.0        | U         | 2.0 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Chloroform                                    | 9.8        | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Tetrahydrofuran                               | 150        | U         | 150 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1,1-Trichloroethane                         | 11         | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Cyclohexane                                   | 6.9        | U         | 6.9 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Carbon tetrachloride                          | 2.2        | U         | 2.2 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 2,2,4-Trimethylpentane                        | 9.3        | U         | 9.3 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Benzene                                       | 6.4        | U         | 6.4 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichloroethane                            | 8.1        | U         | 8.1 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| n-Heptane                                     | 8.2        | U         | 8.2 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Trichloroethene                               | 1.9        | U         | 1.9 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Methyl methacrylate                           | 20         | U         | 20  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichloropropane                           | 9.2        | U         | 9.2 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,4-Dioxane                                   | 180        | U         | 180 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Bromodichloromethane                          | 13         | U         | 13  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| cis-1,3-Dichloropropene                       | 9.1        | U         | 9.1 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 20         | U         | 20  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Toluene                                       | 7.5        | U         | 7.5 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| trans-1,3-Dichloropropene                     | 9.1        | U         | 9.1 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1,2-Trichloroethane                         | 11         | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Tetrachloroethene                             | 14         | U         | 14  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Methyl Butyl Ketone (2-Hexanone)              | 20         | U         | 20  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Dibromochloromethane                          | 17         | U         | 17  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dibromoethane                             | 15         | U         | 15  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Chlorobenzene                                 | 9.2        | U         | 9.2 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Ethylbenzene                                  | 8.7        | U         | 8.7 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| <b>m,p-Xylene</b>                             | <b>38</b>  | <b>D</b>  | 22  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| <b>o-Xylene</b>                               | <b>13</b>  | <b>D</b>  | 8.7 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Styrene                                       | 8.5        | U         | 8.5 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Bromoform                                     | 21         | U         | 21  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Cumene  | 9.8        | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,1,2,2-Tetrachloroethane                     | 14         | U         | 14  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| n-Propylbenzene                               | 9.8        | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-1\_20181120**

**Lab Sample ID: 200-46353-2**

**Date Collected: 11/20/18 13:44**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 4-Ethyltoluene         | 9.8    | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,3,5-Trimethylbenzene | 9.8    | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 2-Chlorotoluene        | 10     | U         | 10  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| tert-Butylbenzene      | 11     | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2,4-Trimethylbenzene | 9.8    | U         | 9.8 |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| sec-Butylbenzene       | 11     | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 4-Isopropyltoluene     | 11     | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,3-Dichlorobenzene    | 12     | U         | 12  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,4-Dichlorobenzene    | 12     | U         | 12  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Benzyl chloride        | 10     | U         | 10  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| n-Butylbenzene         | 11     | U         | 11  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2-Dichlorobenzene    | 12     | U         | 12  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| 1,2,4-Trichlorobenzene | 37     | U         | 37  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Hexachlorobutadiene    | 21     | U         | 21  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |
| Naphthalene            | 26     | U         | 26  |     | ug/m3 |   |          | 12/07/18 16:45 | 10      |

**Client Sample ID: IA-2\_20181120**

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                                 | Result      | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>          | <b>0.58</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Chlorodifluoromethane</b>            | <b>0.57</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Chloromethane</b>                    | <b>0.55</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>n-Butane</b>                         | <b>2.3</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Vinyl chloride                          | 0.078       | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,3-Butadiene                           | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Bromomethane                            | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Chloroethane                            | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>0.27</b> |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1-Dichloroethene                      | 0.035       | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Acetone</b>                          | <b>5.7</b>  |           | 5.0   |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Isopropyl alcohol                       | 5.0         | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Carbon disulfide                        | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 3-Chloropropene                         | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Methylene Chloride                      | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| tert-Butyl alcohol                      | 5.0         | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Methyl tert-butyl ether                 | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| trans-1,2-Dichloroethene                | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>n-Hexane</b>                         | <b>0.42</b> |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1-Dichloroethane                      | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>2.1</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| cis-1,2-Dichloroethene                  | 0.050       | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Chloroform                              | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |

TestAmerica Burlington



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-2\_20181120**

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| Tetrahydrofuran                               | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1,1-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Cyclohexane</b>                            | <b>0.30</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.070</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>2,2,4-Trimethylpentane</b>                 | <b>0.32</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Benzene</b>                                | <b>0.39</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| n-Heptane                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Trichloroethene                               | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Methyl methacrylate                           | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichloropropane                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,4-Dioxane                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Bromodichloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| cis-1,3-Dichloropropene                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| <b>Toluene</b>                                | <b>0.93</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| trans-1,3-Dichloropropene                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1,2-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Tetrachloroethene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Dibromochloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dibromoethane                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Chlorobenzene                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Ethylbenzene                                  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| m,p-Xylene                                    | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| o-Xylene                                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Styrene                                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Bromoform                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Cumene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| n-Propylbenzene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 4-Ethyltoluene                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 2-Chlorotoluene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| tert-Butylbenzene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| sec-Butylbenzene                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 4-Isopropyltoluene                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,3-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,4-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Benzyl chloride                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| n-Butylbenzene                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| 1,2,4-Trichlorobenzene                        | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Hexachlorobutadiene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |
| Naphthalene                                   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 05:11 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-2\_20181120**

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

| Analyte                                       | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Dichlorodifluoromethane                       | 2.9    |           | 2.5  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Chlorodifluoromethane                         | 2.0    |           | 1.8  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichlorotetrafluoroethane                 | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Chloromethane                                 | 1.1    |           | 1.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| n-Butane                                      | 5.6    |           | 1.2  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Vinyl chloride                                | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,3-Butadiene                                 | 0.44   | U         | 0.44 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Bromomethane                                  | 0.78   | U         | 0.78 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Chloroethane                                  | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Trichlorofluoromethane                        | 1.5    |           | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1-Dichloroethene                            | 0.14   | U         | 0.14 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Acetone                                       | 13     |           | 12   |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Isopropyl alcohol                             | 12     | U         | 12   |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Carbon disulfide                              | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 3-Chloropropene                               | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Methylene Chloride                            | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| tert-Butyl alcohol                            | 15     | U         | 15   |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Methyl tert-butyl ether                       | 0.72   | U         | 0.72 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| trans-1,2-Dichloroethene                      | 0.79   | U         | 0.79 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| n-Hexane                                      | 1.5    |           | 0.70 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 6.2    |           | 1.5  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| cis-1,2-Dichloroethene                        | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Chloroform                                    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Tetrahydrofuran                               | 15     | U         | 15   |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1,1-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Cyclohexane                                   | 1.0    |           | 0.69 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Carbon tetrachloride                          | 0.44   |           | 0.22 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 2,2,4-Trimethylpentane                        | 1.5    |           | 0.93 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Benzene                                       | 1.2    |           | 0.64 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| n-Heptane                                     | 0.82   | U         | 0.82 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Trichloroethene                               | 0.19   | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Methyl methacrylate                           | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichloropropane                           | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,4-Dioxane                                   | 18     | U         | 18   |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Bromodichloromethane                          | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| cis-1,3-Dichloropropene                       | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Toluene                                       | 3.5    |           | 0.75 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| trans-1,3-Dichloropropene                     | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1,2-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Tetrachloroethene                             | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Dibromochloromethane                          | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dibromoethane                             | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Chlorobenzene                                 | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-2\_20181120**

**Lab Sample ID: 200-46353-3**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Ethylbenzene              | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| m,p-Xylene                | 2.2    | U         | 2.2  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| o-Xylene                  | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Styrene                   | 0.85   | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Bromoform                 | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Cumene                    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| n-Propylbenzene           | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 4-Ethyltoluene            | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,3,5-Trimethylbenzene    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 2-Chlorotoluene           | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| tert-Butylbenzene         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2,4-Trimethylbenzene    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| sec-Butylbenzene          | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 4-Isopropyltoluene        | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,3-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,4-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Benzyl chloride           | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| n-Butylbenzene            | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| 1,2,4-Trichlorobenzene    | 3.7    | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Hexachlorobutadiene       | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |
| Naphthalene               | 2.6    | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 05:11 | 1       |

**Client Sample ID: IA-3\_20181120**

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                        | Result      | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b> | <b>0.51</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Chlorodifluoromethane          | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Chloromethane</b>           | <b>0.66</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>n-Butane</b>                | <b>2.4</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Vinyl chloride                 | 0.078       | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,3-Butadiene                  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Bromomethane                   | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Chloroethane                   | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Trichlorofluoromethane</b>  | <b>0.22</b> |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1-Dichloroethene             | 0.035       | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Acetone</b>                 | <b>9.2</b>  |           | 5.0   |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Isopropyl alcohol              | 5.0         | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Carbon disulfide               | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 3-Chloropropene                | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Methylene Chloride             | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-3\_20181120**

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| tert-Butyl alcohol                            | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Methyl tert-butyl ether                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| trans-1,2-Dichloroethene                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>n-Hexane</b>                               | <b>0.47</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>1.8</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| cis-1,2-Dichloroethene                        | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Chloroform                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Tetrahydrofuran                               | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1,1-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Cyclohexane</b>                            | <b>0.35</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.053</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>2,2,4-Trimethylpentane</b>                 | <b>0.22</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Benzene</b>                                | <b>0.32</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>n-Heptane</b>                              | <b>0.20</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Trichloroethene                               | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Methyl methacrylate                           | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichloropropane                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,4-Dioxane                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Bromodichloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| cis-1,3-Dichloropropene                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Toluene</b>                                | <b>0.90</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| trans-1,3-Dichloropropene                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1,2-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Tetrachloroethene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Dibromochloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dibromoethane                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Chlorobenzene                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>Ethylbenzene</b>                           | <b>0.20</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>m,p-Xylene</b>                             | <b>0.68</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| <b>o-Xylene</b>                               | <b>0.27</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Styrene                                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Bromoform                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Cumene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| n-Propylbenzene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 4-Ethyltoluene                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 2-Chlorotoluene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| tert-Butylbenzene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| sec-Butylbenzene                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 4-Isopropyltoluene                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,3-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,4-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-3\_20181120**

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Benzyl chloride                         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| n-Butylbenzene                          | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichlorobenzene                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| 1,2,4-Trichlorobenzene                  | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Hexachlorobutadiene                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Naphthalene                             | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 06:01 | 1       |
| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b>          | <b>2.5</b>  |           | 2.5  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Chlorodifluoromethane                   | 1.8         | U         | 1.8  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 1.4         | U         | 1.4  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Chloromethane</b>                    | <b>1.4</b>  |           | 1.0  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>n-Butane</b>                         | <b>5.7</b>  |           | 1.2  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Vinyl chloride                          | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,3-Butadiene                           | 0.44        | U         | 0.44 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Bromomethane                            | 0.78        | U         | 0.78 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Chloroethane                            | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.87        | U         | 0.87 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>1.2</b>  |           | 1.1  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 1.5         | U         | 1.5  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,1-Dichloroethene                      | 0.14        | U         | 0.14 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Acetone</b>                          | <b>22</b>   |           | 12   |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Isopropyl alcohol                       | 12          | U         | 12   |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Carbon disulfide                        | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 3-Chloropropene                         | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Methylene Chloride                      | 1.7         | U         | 1.7  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| tert-Butyl alcohol                      | 15          | U         | 15   |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Methyl tert-butyl ether                 | 0.72        | U         | 0.72 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| trans-1,2-Dichloroethene                | 0.79        | U         | 0.79 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>n-Hexane</b>                         | <b>1.7</b>  |           | 0.70 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,1-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>5.2</b>  |           | 1.5  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| cis-1,2-Dichloroethene                  | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Chloroform                              | 0.98        | U         | 0.98 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Tetrahydrofuran                         | 15          | U         | 15   |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,1,1-Trichloroethane                   | 1.1         | U         | 1.1  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Cyclohexane</b>                      | <b>1.2</b>  |           | 0.69 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Carbon tetrachloride</b>             | <b>0.34</b> |           | 0.22 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>2,2,4-Trimethylpentane</b>           | <b>1.0</b>  |           | 0.93 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>Benzene</b>                          | <b>1.0</b>  |           | 0.64 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| <b>n-Heptane</b>                        | <b>0.82</b> |           | 0.82 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Trichloroethene                         | 0.19        | U         | 0.19 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Methyl methacrylate                     | 2.0         | U         | 2.0  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichloropropane                     | 0.92        | U         | 0.92 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| 1,4-Dioxane                             | 18          | U         | 18   |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| Bromodichloromethane                    | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |
| cis-1,3-Dichloropropene                 | 0.91        | U         | 0.91 |     | ug/m3   |   |          | 12/06/18 06:01 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-3\_20181120**

**Lab Sample ID: 200-46353-4**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| <b>Toluene</b>                                | <b>3.4</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| trans-1,3-Dichloropropene                     | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,1,2-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Tetrachloroethene                             | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Dibromochloromethane                          | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dibromoethane                             | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Chlorobenzene                                 | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| <b>Ethylbenzene</b>                           | <b>0.86</b> |           | 0.87 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| <b>m,p-Xylene</b>                             | <b>3.0</b>  |           | 2.2  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| <b>o-Xylene</b>                               | <b>1.2</b>  |           | 0.87 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Styrene                                       | 0.85        | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Bromoform                                     | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Cumene  | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| n-Propylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 4-Ethyltoluene                                | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 2-Chlorotoluene                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| tert-Butylbenzene                             | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| sec-Butylbenzene                              | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 4-Isopropyltoluene                            | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,3-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,4-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Benzyl chloride                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| n-Butylbenzene                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,2-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Hexachlorobutadiene                           | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |
| Naphthalene                                   | 2.6         | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 06:01 | 1       |

**Client Sample ID: IA-4\_20181120**

**Lab Sample ID: 200-46353-5**

**Date Collected: 11/20/18 13:01**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                        | Result      | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b> | <b>0.51</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Chlorodifluoromethane          | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Chloromethane</b>           | <b>5.5</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>n-Butane</b>                | <b>4.0</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Vinyl chloride                 | 0.078       | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,3-Butadiene                  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Bromomethane                   | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-4\_20181120**

**Lab Sample ID: 200-46353-5**

**Date Collected: 11/20/18 13:01**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| Chloroethane                                  | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Trichlorofluoromethane</b>                 | <b>0.22</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1-Dichloroethene                            | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Acetone</b>                                | <b>11</b>    |           | 5.0   |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Isopropyl alcohol                             | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Carbon disulfide                              | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 3-Chloropropene                               | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Methylene Chloride                            | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| tert-Butyl alcohol                            | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Methyl tert-butyl ether                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| trans-1,2-Dichloroethene                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>n-Hexane</b>                               | <b>0.77</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>1.4</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| cis-1,2-Dichloroethene                        | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Chloroform                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Tetrahydrofuran                               | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1,1-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Cyclohexane</b>                            | <b>0.28</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.046</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>2,2,4-Trimethylpentane</b>                 | <b>0.20</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Benzene</b>                                | <b>0.30</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>n-Heptane</b>                              | <b>0.21</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Trichloroethene                               | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Methyl methacrylate                           | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichloropropane                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,4-Dioxane                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Bromodichloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| cis-1,3-Dichloropropene                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| <b>Toluene</b>                                | <b>0.92</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| trans-1,3-Dichloropropene                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1,2-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Tetrachloroethene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Dibromochloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dibromoethane                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Chlorobenzene                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Ethylbenzene                                  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| m,p-Xylene                                    | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| o-Xylene                                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Styrene                                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Bromoform                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Cumene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-4\_20181120**

**Lab Sample ID: 200-46353-5**

**Date Collected: 11/20/18 13:01**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                | Result | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|-----|---------|---|----------|----------------|---------|
| n-Propylbenzene        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 4-Ethyltoluene         | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,3,5-Trimethylbenzene | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 2-Chlorotoluene        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| tert-Butylbenzene      | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2,4-Trimethylbenzene | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| sec-Butylbenzene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 4-Isopropyltoluene     | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,3-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,4-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Benzyl chloride        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| n-Butylbenzene         | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| 1,2,4-Trichlorobenzene | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Hexachlorobutadiene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |
| Naphthalene            | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 06:51 | 1       |

| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>          | <b>2.5</b>  |           | 2.5  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Chlorodifluoromethane                   | 1.8         | U         | 1.8  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Chloromethane</b>                    | <b>11</b>   |           | 1.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>n-Butane</b>                         | <b>9.6</b>  |           | 1.2  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Vinyl chloride                          | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,3-Butadiene                           | 0.44        | U         | 0.44 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Bromomethane                            | 0.78        | U         | 0.78 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Chloroethane                            | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>1.2</b>  |           | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1-Dichloroethene                      | 0.14        | U         | 0.14 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Acetone</b>                          | <b>26</b>   |           | 12   |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Isopropyl alcohol                       | 12          | U         | 12   |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Carbon disulfide                        | 1.6         | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 3-Chloropropene                         | 1.6         | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Methylene Chloride                      | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| tert-Butyl alcohol                      | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Methyl tert-butyl ether                 | 0.72        | U         | 0.72 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| trans-1,2-Dichloroethene                | 0.79        | U         | 0.79 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>n-Hexane</b>                         | <b>2.7</b>  |           | 0.70 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>4.0</b>  |           | 1.5  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| cis-1,2-Dichloroethene                  | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Chloroform                              | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Tetrahydrofuran                         | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1,1-Trichloroethane                   | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Cyclohexane</b>                      | <b>0.95</b> |           | 0.69 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Carbon tetrachloride</b>             | <b>0.29</b> |           | 0.22 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>2,2,4-Trimethylpentane</b>           | <b>0.93</b> |           | 0.93 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-4\_20181120**

**Lab Sample ID: 200-46353-5**

**Date Collected: 11/20/18 13:01**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Benzene</b>                                | <b>0.97</b> |           | 0.64 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichloroethane                            | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>n-Heptane</b>                              | <b>0.87</b> |           | 0.82 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Trichloroethene                               | 0.19        | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Methyl methacrylate                           | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichloropropane                           | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,4-Dioxane                                   | 18          | U         | 18   |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Bromodichloromethane                          | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| cis-1,3-Dichloropropene                       | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| <b>Toluene</b>                                | <b>3.5</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| trans-1,3-Dichloropropene                     | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1,2-Trichloroethane                         | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Tetrachloroethene                             | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Dibromochloromethane                          | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dibromoethane                             | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Chlorobenzene                                 | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Ethylbenzene                                  | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| m,p-Xylene                                    | 2.2         | U         | 2.2  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| o-Xylene                                      | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Styrene                                       | 0.85        | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Bromoform                                     | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Cumene  | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| n-Propylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 4-Ethyltoluene                                | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 2-Chlorotoluene                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| tert-Butylbenzene                             | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| sec-Butylbenzene                              | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 4-Isopropyltoluene                            | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,3-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,4-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Benzyl chloride                               | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| n-Butylbenzene                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2-Dichlorobenzene                           | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Hexachlorobutadiene                           | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |
| Naphthalene                                   | 2.6         | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 06:51 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte  | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>                       | <b>0.51</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Chlorodifluoromethane                                | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichlorotetrafluoroethane                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Chloromethane</b>                                 | <b>0.62</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>n-Butane</b>                                      | <b>2.4</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Vinyl chloride                                       | 0.078        | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,3-Butadiene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Bromomethane   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Chloroethane   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Bromoethene(Vinyl Bromide)                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Trichlorofluoromethane</b>                        | <b>0.22</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1,2-Trichlorotrifluoroethane                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1-Dichloroethene                                   | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Acetone</b>                                       | <b>100 E</b> |           | 5.0   |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Isopropyl alcohol                                    | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Carbon disulfide                                     | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 3-Chloropropene                                      | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Methylene Chloride                                   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| tert-Butyl alcohol                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Methyl tert-butyl ether                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| trans-1,2-Dichloroethene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>n-Hexane</b>                                      | <b>0.38</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1-Dichloroethane                                   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>              | <b>3.5</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| cis-1,2-Dichloroethene                               | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Chloroform   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Tetrahydrofuran                                      | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1,1-Trichloroethane                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Cyclohexane</b>                                   | <b>0.39</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Carbon tetrachloride</b>                          | <b>0.061</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 2,2,4-Trimethylpentane                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Benzene</b>                                       | <b>0.31</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichloroethane                                   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>n-Heptane</b>                                     | <b>0.20</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Trichloroethene                                      | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Methyl methacrylate                                  | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichloropropane                                  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,4-Dioxane  | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Bromodichloromethane                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| cis-1,3-Dichloropropene                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>4-Methyl-2-pentanone (Methyl isobutyl ketone)</b> | <b>0.58</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Toluene</b>                                       | <b>0.78</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| trans-1,3-Dichloropropene                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1,2-Trichloroethane                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Tetrachloroethene                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Methyl Butyl Ketone (2-Hexanone)                     | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Dibromochloromethane                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dibromoethane                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                        | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Chlorobenzene                  | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>Ethylbenzene</b>            | <b>1.3</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>m,p-Xylene</b>              | <b>6.1</b> |           | 0.50 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| <b>o-Xylene</b>                | <b>2.1</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Styrene                        | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Bromoform                      | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Cumene                         | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,1,2,2-Tetrachloroethane      | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| n-Propylbenzene                | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 4-Ethyltoluene                 | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,3,5-Trimethylbenzene         | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 2-Chlorotoluene                | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| tert-Butylbenzene              | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2,4-Trimethylbenzene         | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| sec-Butylbenzene               | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 4-Isopropyltoluene             | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,3-Dichlorobenzene            | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,4-Dichlorobenzene            | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Benzyl chloride                | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| n-Butylbenzene                 | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichlorobenzene            | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| 1,2,4-Trichlorobenzene         | 0.50       | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Hexachlorobutadiene            | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Naphthalene                    | 0.50       | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 07:42 | 1       |
| Analyte                        | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b> | <b>2.5</b> |           | 2.5  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Chlorodifluoromethane          | 1.8        | U         | 1.8  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 1.4        | U         | 1.4  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| <b>Chloromethane</b>           | <b>1.3</b> |           | 1.0  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| <b>n-Butane</b>                | <b>5.6</b> |           | 1.2  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Vinyl chloride                 | 0.20       | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 1,3-Butadiene                  | 0.44       | U         | 0.44 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Bromomethane                   | 0.78       | U         | 0.78 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Chloroethane                   | 1.3        | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.87       | U         | 0.87 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| <b>Trichlorofluoromethane</b>  | <b>1.3</b> |           | 1.1  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 1.5        | U         | 1.5  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 1,1-Dichloroethene             | 0.14       | U         | 0.14 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| <b>Acetone</b>                 | <b>240</b> | <b>E</b>  | 12   |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Isopropyl alcohol              | 12         | U         | 12   |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Carbon disulfide               | 1.6        | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 3-Chloropropene                | 1.6        | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Methylene Chloride             | 1.7        | U         | 1.7  |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| tert-Butyl alcohol             | 15         | U         | 15   |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| Methyl tert-butyl ether        | 0.72       | U         | 0.72 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| trans-1,2-Dichloroethene       | 0.79       | U         | 0.79 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| <b>n-Hexane</b>                | <b>1.3</b> |           | 0.70 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |
| 1,1-Dichloroethane             | 0.81       | U         | 0.81 |     | ug/m3   |   |          | 12/06/18 07:42 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte  | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Methyl Ethyl Ketone (2-Butanone)</b>              | <b>10</b>   |           | 1.5  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| cis-1,2-Dichloroethene                               | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Chloroform   | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Tetrahydrofuran                                      | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,1,1-Trichloroethane                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>Cyclohexane</b>                                   | <b>1.3</b>  |           | 0.69 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>Carbon tetrachloride</b>                          | <b>0.39</b> |           | 0.22 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 2,2,4-Trimethylpentane                               | 0.93        | U         | 0.93 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>Benzene</b>                                       | <b>0.98</b> |           | 0.64 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichloroethane                                   | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>n-Heptane</b>                                     | <b>0.83</b> |           | 0.82 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Trichloroethene                                      | 0.19        | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Methyl methacrylate                                  | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichloropropane                                  | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,4-Dioxane  | 18          | U         | 18   |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Bromodichloromethane                                 | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| cis-1,3-Dichloropropene                              | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>4-Methyl-2-pentanone (Methyl isobutyl ketone)</b> | <b>2.4</b>  |           | 2.0  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>Toluene</b>                                       | <b>3.0</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| trans-1,3-Dichloropropene                            | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,1,2-Trichloroethane                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Tetrachloroethene                                    | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Methyl Butyl Ketone (2-Hexanone)                     | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Dibromochloromethane                                 | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dibromoethane                                    | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Chlorobenzene  | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>Ethylbenzene</b>                                  | <b>5.5</b>  |           | 0.87 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>m,p-Xylene</b>                                    | <b>26</b>   |           | 2.2  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| <b>o-Xylene</b>                                      | <b>9.3</b>  |           | 0.87 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Styrene  | 0.85        | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Bromoform  | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Cumene   | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,1,2,2-Tetrachloroethane                            | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| n-Propylbenzene                                      | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 4-Ethyltoluene                                       | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,3,5-Trimethylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 2-Chlorotoluene                                      | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| tert-Butylbenzene                                    | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2,4-Trimethylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| sec-Butylbenzene                                     | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 4-Isopropyltoluene                                   | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,3-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,4-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Benzyl chloride                                      | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| n-Butylbenzene                                       | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| 1,2,4-Trichlorobenzene                               | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |
| Hexachlorobutadiene                                  | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Naphthalene | 2.6    | U         | 2.6 |     | ug/m3 |   |          | 12/06/18 07:42 | 1       |

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL**

| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane                       | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Chlorodifluoromethane                         | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichlorotetrafluoroethane                 | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Chloromethane                                 | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>n-Butane</b>                               | <b>2.5</b> | <b>D</b>  | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Vinyl chloride                                | 0.31       | U         | 0.31 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,3-Butadiene                                 | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Bromomethane                                  | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Chloroethane                                  | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Bromoethene(Vinyl Bromide)                    | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Trichlorofluoromethane                        | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1,2-Trichlorotrifluoroethane                | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1-Dichloroethene                            | 0.14       | U         | 0.14 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>Acetone</b>                                | <b>120</b> | <b>D</b>  | 20   |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Isopropyl alcohol                             | 20         | U         | 20   |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Carbon disulfide                              | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 3-Chloropropene                               | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Methylene Chloride                            | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| tert-Butyl alcohol                            | 20         | U         | 20   |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Methyl tert-butyl ether                       | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| trans-1,2-Dichloroethene                      | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| n-Hexane                                      | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1-Dichloroethane                            | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>3.3</b> | <b>D</b>  | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| cis-1,2-Dichloroethene                        | 0.20       | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Chloroform                                    | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Tetrahydrofuran                               | 20         | U         | 20   |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1,1-Trichloroethane                         | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Cyclohexane                                   | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Carbon tetrachloride                          | 0.14       | U         | 0.14 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 2,2,4-Trimethylpentane                        | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Benzene                                       | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichloroethane                            | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| n-Heptane                                     | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Trichloroethene                               | 0.14       | U         | 0.14 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Methyl methacrylate                           | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichloropropane                           | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,4-Dioxane                                   | 20         | U         | 20   |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Bromodichloromethane                          | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| cis-1,3-Dichloropropene                       | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Toluene                                       | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| trans-1,3-Dichloropropene                     | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1,2-Trichloroethane                         | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                          | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Tetrachloroethene                | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Methyl Butyl Ketone (2-Hexanone) | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Dibromochloromethane             | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dibromoethane                | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Chlorobenzene                    | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>Ethylbenzene</b>              | <b>1.3</b> | <b>D</b>  | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>m,p-Xylene</b>                | <b>6.2</b> | <b>D</b>  | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| <b>o-Xylene</b>                  | <b>2.1</b> | <b>D</b>  | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Styrene                          | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Bromoform                        | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Cumene                           | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,1,2,2-Tetrachloroethane        | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| n-Propylbenzene                  | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 4-Ethyltoluene                   | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,3,5-Trimethylbenzene           | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 2-Chlorotoluene                  | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| tert-Butylbenzene                | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2,4-Trimethylbenzene           | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| sec-Butylbenzene                 | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 4-Isopropyltoluene               | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,3-Dichlorobenzene              | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,4-Dichlorobenzene              | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Benzyl chloride                  | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| n-Butylbenzene                   | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichlorobenzene              | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| 1,2,4-Trichlorobenzene           | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Hexachlorobutadiene              | 0.80       | U         | 0.80 |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Naphthalene                      | 2.0        | U         | 2.0  |     | ppb v/v |   |          | 12/06/18 22:33 | 4       |
| Analyte                          | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| Dichlorodifluoromethane          | 9.9        | U         | 9.9  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Chlorodifluoromethane            | 7.1        | U         | 7.1  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichlorotetrafluoroethane    | 5.6        | U         | 5.6  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Chloromethane                    | 4.1        | U         | 4.1  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| <b>n-Butane</b>                  | <b>6.0</b> | <b>D</b>  | 4.8  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Vinyl chloride                   | 0.80       | U         | 0.80 |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| 1,3-Butadiene                    | 1.8        | U         | 1.8  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Bromomethane                     | 3.1        | U         | 3.1  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Chloroethane                     | 5.3        | U         | 5.3  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Bromoethene(Vinyl Bromide)       | 3.5        | U         | 3.5  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Trichlorofluoromethane           | 4.5        | U         | 4.5  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| 1,1,2-Trichlorotrifluoroethane   | 6.1        | U         | 6.1  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| 1,1-Dichloroethene               | 0.56       | U         | 0.56 |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| <b>Acetone</b>                   | <b>290</b> | <b>D</b>  | 48   |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Isopropyl alcohol                | 49         | U         | 49   |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Carbon disulfide                 | 6.2        | U         | 6.2  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| 3-Chloropropene                  | 6.3        | U         | 6.3  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| Methylene Chloride               | 6.9        | U         | 6.9  |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |
| tert-Butyl alcohol               | 61         | U         | 61   |     | ug/m3   |   |          | 12/06/18 22:33 | 4       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Methyl tert-butyl ether                       | 2.9        | U         | 2.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| trans-1,2-Dichloroethene                      | 3.2        | U         | 3.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| n-Hexane                                      | 2.8        | U         | 2.8  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,1-Dichloroethane                            | 3.2        | U         | 3.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>9.7</b> | <b>D</b>  | 5.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| cis-1,2-Dichloroethene                        | 0.80       | U         | 0.80 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Chloroform                                    | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Tetrahydrofuran                               | 59         | U         | 59   |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,1,1-Trichloroethane                         | 4.4        | U         | 4.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Cyclohexane                                   | 2.8        | U         | 2.8  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Carbon tetrachloride                          | 0.88       | U         | 0.88 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 2,2,4-Trimethylpentane                        | 3.7        | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Benzene                                       | 2.6        | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichloroethane                            | 3.2        | U         | 3.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| n-Heptane                                     | 3.3        | U         | 3.3  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Trichloroethene                               | 0.75       | U         | 0.75 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Methyl methacrylate                           | 8.2        | U         | 8.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichloropropane                           | 3.7        | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,4-Dioxane                                   | 72         | U         | 72   |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Bromodichloromethane                          | 5.4        | U         | 5.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| cis-1,3-Dichloropropene                       | 3.6        | U         | 3.6  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 8.2        | U         | 8.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Toluene                                       | 3.0        | U         | 3.0  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| trans-1,3-Dichloropropene                     | 3.6        | U         | 3.6  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,1,2-Trichloroethane                         | 4.4        | U         | 4.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Tetrachloroethene                             | 5.4        | U         | 5.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Methyl Butyl Ketone (2-Hexanone)              | 8.2        | U         | 8.2  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Dibromochloromethane                          | 6.8        | U         | 6.8  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dibromoethane                             | 6.1        | U         | 6.1  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Chlorobenzene                                 | 3.7        | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| <b>Ethylbenzene</b>                           | <b>5.4</b> | <b>D</b>  | 3.5  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| <b>m,p-Xylene</b>                             | <b>27</b>  | <b>D</b>  | 8.7  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| <b>o-Xylene</b>                               | <b>9.0</b> | <b>D</b>  | 3.5  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Styrene                                       | 3.4        | U         | 3.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Bromoform                                     | 8.3        | U         | 8.3  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Cumene  | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,1,2,2-Tetrachloroethane                     | 5.5        | U         | 5.5  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| n-Propylbenzene                               | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 4-Ethyltoluene                                | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,3,5-Trimethylbenzene                        | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 2-Chlorotoluene                               | 4.1        | U         | 4.1  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| tert-Butylbenzene                             | 4.4        | U         | 4.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2,4-Trimethylbenzene                        | 3.9        | U         | 3.9  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| sec-Butylbenzene                              | 4.4        | U         | 4.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 4-Isopropyltoluene                            | 4.4        | U         | 4.4  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,3-Dichlorobenzene                           | 4.8        | U         | 4.8  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,4-Dichlorobenzene                           | 4.8        | U         | 4.8  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Benzyl chloride                               | 4.1        | U         | 4.1  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: IA-5\_20181120**

**Lab Sample ID: 200-46353-6**

**Date Collected: 11/20/18 12:58**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)**

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| n-Butylbenzene         | 4.4    | U         | 4.4 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2-Dichlorobenzene    | 4.8    | U         | 4.8 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| 1,2,4-Trichlorobenzene | 15     | U         | 15  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Hexachlorobutadiene    | 8.5    | U         | 8.5 |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |
| Naphthalene            | 10     | U         | 10  |     | ug/m3 |   |          | 12/06/18 22:33 | 4       |

**Client Sample ID: MP-1\_20181120**

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                          | Result    | Qualifier | RL  | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|-----------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane          | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Chlorodifluoromethane            | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichlorotetrafluoroethane    | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Chloromethane                    | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| n-Butane                         | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Vinyl chloride                   | 3.9       | U         | 3.9 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,3-Butadiene                    | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Bromomethane                     | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Chloroethane                     | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Bromoethene(Vinyl Bromide)       | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Trichlorofluoromethane           | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1,2-Trichlorotrifluoroethane   | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1-Dichloroethene               | 1.8       | U         | 1.8 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Acetone                          | 250       | U         | 250 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Isopropyl alcohol                | 250       | U         | 250 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Carbon disulfide                 | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 3-Chloropropene                  | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Methylene Chloride               | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| tert-Butyl alcohol               | 250       | U         | 250 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Methyl tert-butyl ether          | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| trans-1,2-Dichloroethene         | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| n-Hexane                         | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1-Dichloroethane               | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Methyl Ethyl Ketone (2-Butanone) | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| cis-1,2-Dichloroethene           | 2.5       | U         | 2.5 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| <b>Chloroform</b>                | <b>62</b> |           | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Tetrahydrofuran                  | 250       | U         | 250 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1,1-Trichloroethane            | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Cyclohexane                      | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Carbon tetrachloride             | 1.8       | U         | 1.8 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 2,2,4-Trimethylpentane           | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Benzene                          | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichloroethane               | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| n-Heptane                        | 10        | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Trichloroethene                  | 1.8       | U         | 1.8 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Methyl methacrylate              | 25        | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-1\_20181120**

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result | Qualifier | RL  | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,2-Dichloropropane                           | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,4-Dioxane                                   | 250    | U         | 250 |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Bromodichloromethane                          | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| cis-1,3-Dichloropropene                       | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 25     | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Toluene                                       | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| trans-1,3-Dichloropropene                     | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1,2-Trichloroethane                         | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Tetrachloroethene                             | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Methyl Butyl Ketone (2-Hexanone)              | 25     | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Dibromochloromethane                          | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dibromoethane                             | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Chlorobenzene                                 | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Ethylbenzene                                  | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| m,p-Xylene                                    | 25     | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| o-Xylene                                      | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Styrene                                       | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Bromoform                                     | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Cumene  | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,1,2,2-Tetrachloroethane                     | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| n-Propylbenzene                               | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 4-Ethyltoluene                                | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,3,5-Trimethylbenzene                        | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 2-Chlorotoluene                               | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| tert-Butylbenzene                             | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2,4-Trimethylbenzene                        | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| sec-Butylbenzene                              | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 4-Isopropyltoluene                            | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,3-Dichlorobenzene                           | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,4-Dichlorobenzene                           | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Benzyl chloride                               | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| n-Butylbenzene                                | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichlorobenzene                           | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| 1,2,4-Trichlorobenzene                        | 25     | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Hexachlorobutadiene                           | 10     | U         | 10  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |
| Naphthalene                                   | 25     | U         | 25  |     | ppb v/v |   |          | 12/06/18 08:32 | 50      |

| Analyte                       | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Dichlorodifluoromethane       | 120    | U         | 120 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Chlorodifluoromethane         | 88     | U         | 88  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichlorotetrafluoroethane | 70     | U         | 70  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Chloromethane                 | 52     | U         | 52  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| n-Butane                      | 59     | U         | 59  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Vinyl chloride                | 10     | U         | 10  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,3-Butadiene                 | 22     | U         | 22  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Bromomethane                  | 39     | U         | 39  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Chloroethane                  | 66     | U         | 66  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Bromoethene(Vinyl Bromide)    | 44     | U         | 44  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-1\_20181120**

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result     | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Trichlorofluoromethane                        | 56         | U         | 56  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1,2-Trichlorotrifluoroethane                | 77         | U         | 77  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1-Dichloroethene                            | 7.0        | U         | 7.0 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Acetone                                       | 590        | U         | 590 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Isopropyl alcohol                             | 610        | U         | 610 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Carbon disulfide                              | 78         | U         | 78  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 3-Chloropropene                               | 78         | U         | 78  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Methylene Chloride                            | 87         | U         | 87  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| tert-Butyl alcohol                            | 760        | U         | 760 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Methyl tert-butyl ether                       | 36         | U         | 36  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| trans-1,2-Dichloroethene                      | 40         | U         | 40  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| n-Hexane                                      | 35         | U         | 35  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1-Dichloroethane                            | 40         | U         | 40  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Methyl Ethyl Ketone (2-Butanone)              | 74         | U         | 74  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| cis-1,2-Dichloroethene                        | 10         | U         | 10  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| <b>Chloroform</b>                             | <b>300</b> |           | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Tetrahydrofuran                               | 740        | U         | 740 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1,1-Trichloroethane                         | 55         | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Cyclohexane                                   | 34         | U         | 34  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Carbon tetrachloride                          | 11         | U         | 11  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 2,2,4-Trimethylpentane                        | 47         | U         | 47  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Benzene                                       | 32         | U         | 32  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichloroethane                            | 40         | U         | 40  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| n-Heptane                                     | 41         | U         | 41  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Trichloroethene                               | 9.4        | U         | 9.4 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Methyl methacrylate                           | 100        | U         | 100 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichloropropane                           | 46         | U         | 46  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,4-Dioxane                                   | 900        | U         | 900 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Bromodichloromethane                          | 67         | U         | 67  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| cis-1,3-Dichloropropene                       | 45         | U         | 45  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 100        | U         | 100 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Toluene                                       | 38         | U         | 38  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| trans-1,3-Dichloropropene                     | 45         | U         | 45  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1,2-Trichloroethane                         | 55         | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Tetrachloroethene                             | 68         | U         | 68  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Methyl Butyl Ketone (2-Hexanone)              | 100        | U         | 100 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Dibromochloromethane                          | 85         | U         | 85  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dibromoethane                             | 77         | U         | 77  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Chlorobenzene                                 | 46         | U         | 46  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Ethylbenzene                                  | 43         | U         | 43  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| m,p-Xylene                                    | 110        | U         | 110 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| o-Xylene                                      | 43         | U         | 43  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Styrene                                       | 43         | U         | 43  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Bromoform                                     | 100        | U         | 100 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Cumene  | 49         | U         | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,1,2,2-Tetrachloroethane                     | 69         | U         | 69  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| n-Propylbenzene                               | 49         | U         | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 4-Ethyltoluene                                | 49         | U         | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-1\_20181120**

**Lab Sample ID: 200-46353-7**

**Date Collected: 11/20/18 15:15**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3,5-Trimethylbenzene | 49     | U         | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 2-Chlorotoluene        | 52     | U         | 52  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| tert-Butylbenzene      | 55     | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2,4-Trimethylbenzene | 49     | U         | 49  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| sec-Butylbenzene       | 55     | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 4-Isopropyltoluene     | 55     | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,3-Dichlorobenzene    | 60     | U         | 60  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,4-Dichlorobenzene    | 60     | U         | 60  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Benzyl chloride        | 52     | U         | 52  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| n-Butylbenzene         | 55     | U         | 55  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2-Dichlorobenzene    | 60     | U         | 60  |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| 1,2,4-Trichlorobenzene | 190    | U         | 190 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Hexachlorobutadiene    | 110    | U         | 110 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |
| Naphthalene            | 130    | U         | 130 |     | ug/m3 |   |          | 12/06/18 08:32 | 50      |

**Client Sample ID: MP-2\_20181120**

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                          | Result | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|--------|-----------|------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane          | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Chlorodifluoromethane            | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichlorotetrafluoroethane    | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Chloromethane                    | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| n-Butane                         | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Vinyl chloride                   | 1.6    | U         | 1.6  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,3-Butadiene                    | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Bromomethane                     | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Chloroethane                     | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Bromoethene(Vinyl Bromide)       | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Trichlorofluoromethane           | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,1,2-Trichlorotrifluoroethane   | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,1-Dichloroethene               | 0.70   | U         | 0.70 |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Acetone                          | 100    | U         | 100  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Isopropyl alcohol                | 100    | U         | 100  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Carbon disulfide                 | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 3-Chloropropene                  | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Methylene Chloride               | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| tert-Butyl alcohol               | 100    | U         | 100  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Methyl tert-butyl ether          | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| trans-1,2-Dichloroethene         | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| n-Hexane                         | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,1-Dichloroethane               | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Methyl Ethyl Ketone (2-Butanone) | 10     | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| cis-1,2-Dichloroethene           | 1.0    | U         | 1.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Chloroform                       | 4.0    | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Tetrahydrofuran                  | 100    | U         | 100  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-2\_20181120**

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane                         | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Cyclohexane                                   | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Carbon tetrachloride                          | 0.70       | U         | 0.70 |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 2,2,4-Trimethylpentane                        | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Benzene                                       | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichloroethane                            | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| <b>n-Heptane</b>                              | <b>4.2</b> |           | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Trichloroethene                               | 0.70       | U         | 0.70 |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Methyl methacrylate                           | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichloropropane                           | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,4-Dioxane                                   | 100        | U         | 100  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Bromodichloromethane                          | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| cis-1,3-Dichloropropene                       | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Toluene                                       | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| trans-1,3-Dichloropropene                     | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,1,2-Trichloroethane                         | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Tetrachloroethene                             | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Methyl Butyl Ketone (2-Hexanone)              | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Dibromochloromethane                          | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dibromoethane                             | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Chlorobenzene                                 | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Ethylbenzene                                  | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| m,p-Xylene                                    | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| o-Xylene                                      | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Styrene                                       | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Bromoform                                     | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Cumene  | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,1,2,2-Tetrachloroethane                     | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| n-Propylbenzene                               | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 4-Ethyltoluene                                | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,3,5-Trimethylbenzene                        | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 2-Chlorotoluene                               | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| tert-Butylbenzene                             | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2,4-Trimethylbenzene                        | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| sec-Butylbenzene                              | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 4-Isopropyltoluene                            | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,3-Dichlorobenzene                           | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,4-Dichlorobenzene                           | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Benzyl chloride                               | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| n-Butylbenzene                                | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichlorobenzene                           | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| 1,2,4-Trichlorobenzene                        | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Hexachlorobutadiene                           | 4.0        | U         | 4.0  |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Naphthalene                                   | 10         | U         | 10   |     | ppb v/v |   |          | 12/06/18 09:23 | 20      |
| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| Dichlorodifluoromethane                       | 49         | U         | 49   |     | ug/m3   |   |          | 12/06/18 09:23 | 20      |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-2\_20181120**

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result    | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-----------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chlorodifluoromethane                         | 35        | U         | 35  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichlorotetrafluoroethane                 | 28        | U         | 28  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Chloromethane                                 | 21        | U         | 21  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| n-Butane                                      | 24        | U         | 24  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Vinyl chloride                                | 4.0       | U         | 4.0 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,3-Butadiene                                 | 8.8       | U         | 8.8 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Bromomethane                                  | 16        | U         | 16  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Chloroethane                                  | 26        | U         | 26  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Bromoethene(Vinyl Bromide)                    | 17        | U         | 17  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Trichlorofluoromethane                        | 22        | U         | 22  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1,2-Trichlorotrifluoroethane                | 31        | U         | 31  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1-Dichloroethene                            | 2.8       | U         | 2.8 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Acetone                                       | 240       | U         | 240 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Isopropyl alcohol                             | 250       | U         | 250 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Carbon disulfide                              | 31        | U         | 31  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 3-Chloropropene                               | 31        | U         | 31  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Methylene Chloride                            | 35        | U         | 35  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| tert-Butyl alcohol                            | 300       | U         | 300 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Methyl tert-butyl ether                       | 14        | U         | 14  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| trans-1,2-Dichloroethene                      | 16        | U         | 16  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| n-Hexane                                      | 14        | U         | 14  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1-Dichloroethane                            | 16        | U         | 16  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Methyl Ethyl Ketone (2-Butanone)              | 29        | U         | 29  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| cis-1,2-Dichloroethene                        | 4.0       | U         | 4.0 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Chloroform                                    | 20        | U         | 20  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Tetrahydrofuran                               | 290       | U         | 290 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1,1-Trichloroethane                         | 22        | U         | 22  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Cyclohexane                                   | 14        | U         | 14  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Carbon tetrachloride                          | 4.4       | U         | 4.4 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 2,2,4-Trimethylpentane                        | 19        | U         | 19  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Benzene                                       | 13        | U         | 13  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichloroethane                            | 16        | U         | 16  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| <b>n-Heptane</b>                              | <b>17</b> |           | 16  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Trichloroethene                               | 3.8       | U         | 3.8 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Methyl methacrylate                           | 41        | U         | 41  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichloropropane                           | 18        | U         | 18  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,4-Dioxane                                   | 360       | U         | 360 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Bromodichloromethane                          | 27        | U         | 27  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| cis-1,3-Dichloropropene                       | 18        | U         | 18  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 41        | U         | 41  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Toluene                                       | 15        | U         | 15  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| trans-1,3-Dichloropropene                     | 18        | U         | 18  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1,2-Trichloroethane                         | 22        | U         | 22  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Tetrachloroethene                             | 27        | U         | 27  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Methyl Butyl Ketone (2-Hexanone)              | 41        | U         | 41  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Dibromochloromethane                          | 34        | U         | 34  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dibromoethane                             | 31        | U         | 31  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Chlorobenzene                                 | 18        | U         | 18  |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-2\_20181120**

**Lab Sample ID: 200-46353-8**

**Date Collected: 11/20/18 12:59**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                   | Result | Qualifier | RL | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|----|-----|-------|---|----------|----------------|---------|
| Ethylbenzene              | 17     | U         | 17 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| m,p-Xylene                | 43     | U         | 43 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| o-Xylene                  | 17     | U         | 17 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Styrene                   | 17     | U         | 17 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Bromoform                 | 41     | U         | 41 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Cumene                    | 20     | U         | 20 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,1,2,2-Tetrachloroethane | 27     | U         | 27 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| n-Propylbenzene           | 20     | U         | 20 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 4-Ethyltoluene            | 20     | U         | 20 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,3,5-Trimethylbenzene    | 20     | U         | 20 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 2-Chlorotoluene           | 21     | U         | 21 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| tert-Butylbenzene         | 22     | U         | 22 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2,4-Trimethylbenzene    | 20     | U         | 20 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| sec-Butylbenzene          | 22     | U         | 22 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 4-Isopropyltoluene        | 22     | U         | 22 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,3-Dichlorobenzene       | 24     | U         | 24 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,4-Dichlorobenzene       | 24     | U         | 24 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Benzyl chloride           | 21     | U         | 21 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| n-Butylbenzene            | 22     | U         | 22 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2-Dichlorobenzene       | 24     | U         | 24 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| 1,2,4-Trichlorobenzene    | 74     | U         | 74 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Hexachlorobutadiene       | 43     | U         | 43 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |
| Naphthalene               | 52     | U         | 52 |     | ug/m3 |   |          | 12/06/18 09:23 | 20      |

**Client Sample ID: MP-3\_20181120**

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                        | Result      | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b> | <b>0.86</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Chlorodifluoromethane</b>   | <b>0.76</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Chloromethane</b>           | <b>0.63</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>n-Butane</b>                | <b>2.2</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Vinyl chloride                 | 0.078       | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,3-Butadiene                  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Bromomethane                   | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Chloroethane                   | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Trichlorofluoromethane</b>  | <b>2.5</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1-Dichloroethene             | 0.035       | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Acetone</b>                 | <b>34</b>   |           | 5.0   |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Isopropyl alcohol              | 5.0         | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Carbon disulfide               | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 3-Chloropropene                | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Methylene Chloride             | 0.50        | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |

TestAmerica Burlington

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-3\_20181120**

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| tert-Butyl alcohol                            | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Methyl tert-butyl ether                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| trans-1,2-Dichloroethene                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>n-Hexane</b>                               | <b>0.99</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>1.6</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| cis-1,2-Dichloroethene                        | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Chloroform</b>                             | <b>0.99</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Tetrahydrofuran                               | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1,1-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Cyclohexane</b>                            | <b>0.80</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.053</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 2,2,4-Trimethylpentane                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Benzene</b>                                | <b>0.24</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>n-Heptane</b>                              | <b>4.4</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Trichloroethene</b>                        | <b>0.23</b>  |           | 0.035 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Methyl methacrylate                           | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichloropropane                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,4-Dioxane                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Bromodichloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| cis-1,3-Dichloropropene                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Toluene</b>                                | <b>3.6</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| trans-1,3-Dichloropropene                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1,2-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Tetrachloroethene</b>                      | <b>1.7</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Methyl Butyl Ketone (2-Hexanone)</b>       | <b>1.3</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Dibromochloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dibromoethane                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Chlorobenzene                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>Ethylbenzene</b>                           | <b>0.38</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>m,p-Xylene</b>                             | <b>1.1</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>o-Xylene</b>                               | <b>0.47</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Styrene                                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Bromoform                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Cumene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| n-Propylbenzene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 4-Ethyltoluene                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 2-Chlorotoluene                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| tert-Butylbenzene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| <b>1,2,4-Trimethylbenzene</b>                 | <b>0.40</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| sec-Butylbenzene                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 4-Isopropyltoluene                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,3-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,4-Dichlorobenzene                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-3\_20181120**

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Benzyl chloride                         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| n-Butylbenzene                          | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichlorobenzene                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| 1,2,4-Trichlorobenzene                  | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Hexachlorobutadiene                     | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Naphthalene                             | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 10:13 | 1       |
| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b>          | <b>4.3</b>  |           | 2.5  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Chlorodifluoromethane</b>            | <b>2.7</b>  |           | 1.8  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 1.4         | U         | 1.4  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Chloromethane</b>                    | <b>1.3</b>  |           | 1.0  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>n-Butane</b>                         | <b>5.1</b>  |           | 1.2  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Vinyl chloride                          | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,3-Butadiene                           | 0.44        | U         | 0.44 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Bromomethane                            | 0.78        | U         | 0.78 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Chloroethane                            | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.87        | U         | 0.87 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>14</b>   |           | 1.1  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 1.5         | U         | 1.5  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,1-Dichloroethene                      | 0.14        | U         | 0.14 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Acetone</b>                          | <b>82</b>   |           | 12   |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Isopropyl alcohol                       | 12          | U         | 12   |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Carbon disulfide                        | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 3-Chloropropene                         | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Methylene Chloride                      | 1.7         | U         | 1.7  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| tert-Butyl alcohol                      | 15          | U         | 15   |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Methyl tert-butyl ether                 | 0.72        | U         | 0.72 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| trans-1,2-Dichloroethene                | 0.79        | U         | 0.79 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>n-Hexane</b>                         | <b>3.5</b>  |           | 0.70 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,1-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>4.6</b>  |           | 1.5  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| cis-1,2-Dichloroethene                  | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Chloroform</b>                       | <b>4.8</b>  |           | 0.98 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Tetrahydrofuran                         | 15          | U         | 15   |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,1,1-Trichloroethane                   | 1.1         | U         | 1.1  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Cyclohexane</b>                      | <b>2.7</b>  |           | 0.69 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Carbon tetrachloride</b>             | <b>0.33</b> |           | 0.22 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 2,2,4-Trimethylpentane                  | 0.93        | U         | 0.93 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Benzene</b>                          | <b>0.76</b> |           | 0.64 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>n-Heptane</b>                        | <b>18</b>   |           | 0.82 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| <b>Trichloroethene</b>                  | <b>1.2</b>  |           | 0.19 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Methyl methacrylate                     | 2.0         | U         | 2.0  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichloropropane                     | 0.92        | U         | 0.92 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| 1,4-Dioxane                             | 18          | U         | 18   |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| Bromodichloromethane                    | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |
| cis-1,3-Dichloropropene                 | 0.91        | U         | 0.91 |     | ug/m3   |   |          | 12/06/18 10:13 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-3\_20181120**

**Lab Sample ID: 200-46353-9**

**Date Collected: 11/20/18 13:00**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0        | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>Toluene</b>                                | <b>14</b>  |           | 0.75 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| trans-1,3-Dichloropropene                     | 0.91       | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,1,2-Trichloroethane                         | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>Tetrachloroethene</b>                      | <b>12</b>  |           | 1.4  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>Methyl Butyl Ketone (2-Hexanone)</b>       | <b>5.5</b> |           | 2.0  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Dibromochloromethane                          | 1.7        | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dibromoethane                             | 1.5        | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Chlorobenzene                                 | 0.92       | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>Ethylbenzene</b>                           | <b>1.6</b> |           | 0.87 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>m,p-Xylene</b>                             | <b>5.0</b> |           | 2.2  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>o-Xylene</b>                               | <b>2.0</b> |           | 0.87 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Styrene                                       | 0.85       | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Bromoform                                     | 2.1        | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Cumene  | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4        | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| n-Propylbenzene                               | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 4-Ethyltoluene                                | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 2-Chlorotoluene                               | 1.0        | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| tert-Butylbenzene                             | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| <b>1,2,4-Trimethylbenzene</b>                 | <b>2.0</b> |           | 0.98 |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| sec-Butylbenzene                              | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 4-Isopropyltoluene                            | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,3-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,4-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Benzyl chloride                               | 1.0        | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| n-Butylbenzene                                | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,2-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7        | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Hexachlorobutadiene                           | 2.1        | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |
| Naphthalene                                   | 2.6        | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 10:13 | 1       |

**Client Sample ID: MP-4\_20181120**

**Lab Sample ID: 200-46353-10**

**Date Collected: 11/20/18 07:45**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte                        | Result      | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b> | <b>0.58</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Chlorodifluoromethane</b>   | <b>0.53</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Chloromethane</b>           | <b>0.54</b> |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>n-Butane</b>                | <b>3.6</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Vinyl chloride                 | 0.078       | U         | 0.078 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,3-Butadiene                  | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Bromomethane                   | 0.20        | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-4\_20181120**

**Lab Sample ID: 200-46353-10**

**Date Collected: 11/20/18 07:45**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| Chloroethane                                  | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Trichlorofluoromethane</b>                 | <b>0.31</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1-Dichloroethene                            | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Acetone</b>                                | <b>28</b>    |           | 5.0   |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Isopropyl alcohol                             | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Carbon disulfide</b>                       | <b>1.2</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 3-Chloropropene                               | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Methylene Chloride                            | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| tert-Butyl alcohol                            | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Methyl tert-butyl ether                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| trans-1,2-Dichloroethene                      | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>n-Hexane</b>                               | <b>1.0</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>       | <b>2.5</b>   |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| cis-1,2-Dichloroethene                        | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Chloroform                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Tetrahydrofuran                               | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1,1-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Cyclohexane</b>                            | <b>0.52</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Carbon tetrachloride</b>                   | <b>0.079</b> |           | 0.035 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>2,2,4-Trimethylpentane</b>                 | <b>0.31</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Benzene</b>                                | <b>0.48</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichloroethane                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>n-Heptane</b>                              | <b>1.7</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Trichloroethene                               | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Methyl methacrylate                           | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichloropropane                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,4-Dioxane                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Bromodichloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| cis-1,3-Dichloropropene                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Toluene</b>                                | <b>2.2</b>   |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| trans-1,3-Dichloropropene                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1,2-Trichloroethane                         | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Tetrachloroethene</b>                      | <b>0.32</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Methyl Butyl Ketone (2-Hexanone)</b>       | <b>0.78</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Dibromochloromethane                          | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dibromoethane                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Chlorobenzene                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>Ethylbenzene</b>                           | <b>0.28</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>m,p-Xylene</b>                             | <b>0.97</b>  |           | 0.50  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>o-Xylene</b>                               | <b>0.41</b>  |           | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Styrene                                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Bromoform                                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Cumene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |

TestAmerica Burlington



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-4\_20181120**

**Lab Sample ID: 200-46353-10**

**Date Collected: 11/20/18 07:45**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                       | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| n-Propylbenzene               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 4-Ethyltoluene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,3,5-Trimethylbenzene        | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 2-Chlorotoluene               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| tert-Butylbenzene             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| <b>1,2,4-Trimethylbenzene</b> | <b>0.29</b> |           | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| sec-Butylbenzene              | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 4-Isopropyltoluene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,3-Dichlorobenzene           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,4-Dichlorobenzene           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Benzyl chloride               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| n-Butylbenzene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichlorobenzene           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| 1,2,4-Trichlorobenzene        | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Hexachlorobutadiene           | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |
| Naphthalene                   | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/06/18 23:23 | 1       |

| Analyte                                 | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>          | <b>2.9</b>  |           | 2.5  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Chlorodifluoromethane</b>            | <b>1.9</b>  |           | 1.8  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichlorotetrafluoroethane           | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Chloromethane</b>                    | <b>1.1</b>  |           | 1.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>n-Butane</b>                         | <b>8.6</b>  |           | 1.2  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Vinyl chloride                          | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,3-Butadiene                           | 0.44        | U         | 0.44 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Bromomethane                            | 0.78        | U         | 0.78 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Chloroethane                            | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Bromoethene(Vinyl Bromide)              | 0.87        | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Trichlorofluoromethane</b>           | <b>1.7</b>  |           | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1,2-Trichlorotrifluoroethane          | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1-Dichloroethene                      | 0.14        | U         | 0.14 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Acetone</b>                          | <b>66</b>   |           | 12   |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Isopropyl alcohol                       | 12          | U         | 12   |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Carbon disulfide</b>                 | <b>3.7</b>  |           | 1.6  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 3-Chloropropene                         | 1.6         | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Methylene Chloride                      | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| tert-Butyl alcohol                      | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Methyl tert-butyl ether                 | 0.72        | U         | 0.72 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| trans-1,2-Dichloroethene                | 0.79        | U         | 0.79 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>n-Hexane</b>                         | <b>3.6</b>  |           | 0.70 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1-Dichloroethane                      | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b> | <b>7.5</b>  |           | 1.5  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| cis-1,2-Dichloroethene                  | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Chloroform                              | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Tetrahydrofuran                         | 15          | U         | 15   |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1,1-Trichloroethane                   | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Cyclohexane</b>                      | <b>1.8</b>  |           | 0.69 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Carbon tetrachloride</b>             | <b>0.50</b> |           | 0.22 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>2,2,4-Trimethylpentane</b>           | <b>1.4</b>  |           | 0.93 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-4\_20181120**

**Lab Sample ID: 200-46353-10**

**Date Collected: 11/20/18 07:45**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                                       | Result     | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Benzene</b>                                | <b>1.5</b> |           | 0.64 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichloroethane                            | 0.81       | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>n-Heptane</b>                              | <b>6.8</b> |           | 0.82 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Trichloroethene                               | 0.19       | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Methyl methacrylate                           | 2.0        | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichloropropane                           | 0.92       | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,4-Dioxane                                   | 18         | U         | 18   |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Bromodichloromethane                          | 1.3        | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| cis-1,3-Dichloropropene                       | 0.91       | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0        | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Toluene</b>                                | <b>8.2</b> |           | 0.75 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| trans-1,3-Dichloropropene                     | 0.91       | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1,2-Trichloroethane                         | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Tetrachloroethene</b>                      | <b>2.2</b> |           | 1.4  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Methyl Butyl Ketone (2-Hexanone)</b>       | <b>3.2</b> |           | 2.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Dibromochloromethane                          | 1.7        | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dibromoethane                             | 1.5        | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Chlorobenzene                                 | 0.92       | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>Ethylbenzene</b>                           | <b>1.2</b> |           | 0.87 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>m,p-Xylene</b>                             | <b>4.2</b> |           | 2.2  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>o-Xylene</b>                               | <b>1.8</b> |           | 0.87 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Styrene                                       | 0.85       | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Bromoform                                     | 2.1        | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Cumene  | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4        | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| n-Propylbenzene                               | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 4-Ethyltoluene                                | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98       | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 2-Chlorotoluene                               | 1.0        | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| tert-Butylbenzene                             | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| <b>1,2,4-Trimethylbenzene</b>                 | <b>1.4</b> |           | 0.98 |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| sec-Butylbenzene                              | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 4-Isopropyltoluene                            | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,3-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,4-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Benzyl chloride                               | 1.0        | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| n-Butylbenzene                                | 1.1        | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2-Dichlorobenzene                           | 1.2        | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7        | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Hexachlorobutadiene                           | 2.1        | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |
| Naphthalene                                   | 2.6        | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 23:23 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-5\_20181119**

**Lab Sample ID: 200-46353-11**

**Date Collected: 11/19/18 14:50**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

| Analyte  | Result       | Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--|--------------|-----------|-------|-----|---------|---|----------|----------------|---------|
| <b>Dichlorodifluoromethane</b>                       | <b>0.62</b>  |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Chlorodifluoromethane                                | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichlorotetrafluoroethane                        | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Chloromethane</b>                                 | <b>1.1</b>   |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>n-Butane</b>                                      | <b>2.1</b>   |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Vinyl chloride                                       | 0.078        | U         | 0.078 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,3-Butadiene  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Bromomethane   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Chloroethane   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Bromoethene(Vinyl Bromide)                           | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Trichlorofluoromethane</b>                        | <b>0.39</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1,2-Trichlorotrifluoroethane                       | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1-Dichloroethene                                   | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Acetone</b>                                       | <b>17</b>    |           | 5.0   |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Isopropyl alcohol                                    | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Carbon disulfide</b>                              | <b>2.4</b>   |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 3-Chloropropene                                      | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Methylene Chloride                                   | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| tert-Butyl alcohol                                   | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Methyl tert-butyl ether                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| trans-1,2-Dichloroethene                             | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>n-Hexane</b>                                      | <b>0.43</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1-Dichloroethane                                   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Methyl Ethyl Ketone (2-Butanone)</b>              | <b>6.9</b>   |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| cis-1,2-Dichloroethene                               | 0.050        | U         | 0.050 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Chloroform</b>                                    | <b>0.21</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Tetrahydrofuran                                      | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1,1-Trichloroethane                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Cyclohexane</b>                                   | <b>0.32</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Carbon tetrachloride</b>                          | <b>0.094</b> |           | 0.035 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 2,2,4-Trimethylpentane                               | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Benzene</b>                                       | <b>0.40</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichloroethane                                   | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>n-Heptane</b>                                     | <b>0.61</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Trichloroethene                                      | 0.035        | U         | 0.035 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Methyl methacrylate                                  | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichloropropane                                  | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,4-Dioxane  | 5.0          | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Bromodichloromethane                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| cis-1,3-Dichloropropene                              | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>4-Methyl-2-pentanone (Methyl isobutyl ketone)</b> | <b>0.86</b>  |           | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Toluene</b>                                       | <b>1.1</b>   |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| trans-1,3-Dichloropropene                            | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1,2-Trichloroethane                                | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Tetrachloroethene</b>                             | <b>0.36</b>  |           | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Methyl Butyl Ketone (2-Hexanone)                     | 0.50         | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Dibromochloromethane                                 | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dibromoethane                                    | 0.20         | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |



# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-5\_20181119**

**Lab Sample ID: 200-46353-11**

**Date Collected: 11/19/18 14:50**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte                        | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Chlorobenzene                  | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>Ethylbenzene</b>            | <b>0.34</b> |           | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>m,p-Xylene</b>              | <b>0.76</b> |           | 0.50 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| <b>o-Xylene</b>                | <b>0.22</b> |           | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Styrene                        | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Bromoform                      | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Cumene                         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,1,2,2-Tetrachloroethane      | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| n-Propylbenzene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 4-Ethyltoluene                 | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,3,5-Trimethylbenzene         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 2-Chlorotoluene                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| tert-Butylbenzene              | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2,4-Trimethylbenzene         | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| sec-Butylbenzene               | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 4-Isopropyltoluene             | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,3-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,4-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Benzyl chloride                | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| n-Butylbenzene                 | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichlorobenzene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| 1,2,4-Trichlorobenzene         | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Hexachlorobutadiene            | 0.20        | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Naphthalene                    | 0.50        | U         | 0.50 |     | ppb v/v |   |          | 12/07/18 00:13 | 1       |
| Analyte                        | Result      | Qualifier | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
| <b>Dichlorodifluoromethane</b> | <b>3.1</b>  |           | 2.5  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Chlorodifluoromethane          | 1.8         | U         | 1.8  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 1.4         | U         | 1.4  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>Chloromethane</b>           | <b>2.3</b>  |           | 1.0  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>n-Butane</b>                | <b>5.1</b>  |           | 1.2  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Vinyl chloride                 | 0.20        | U         | 0.20 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 1,3-Butadiene                  | 0.44        | U         | 0.44 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Bromomethane                   | 0.78        | U         | 0.78 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Chloroethane                   | 1.3         | U         | 1.3  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.87        | U         | 0.87 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>Trichlorofluoromethane</b>  | <b>2.2</b>  |           | 1.1  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 1.5         | U         | 1.5  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 1,1-Dichloroethene             | 0.14        | U         | 0.14 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>Acetone</b>                 | <b>41</b>   |           | 12   |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Isopropyl alcohol              | 12          | U         | 12   |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>Carbon disulfide</b>        | <b>7.5</b>  |           | 1.6  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 3-Chloropropene                | 1.6         | U         | 1.6  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Methylene Chloride             | 1.7         | U         | 1.7  |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| tert-Butyl alcohol             | 15          | U         | 15   |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| Methyl tert-butyl ether        | 0.72        | U         | 0.72 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| trans-1,2-Dichloroethene       | 0.79        | U         | 0.79 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| <b>n-Hexane</b>                | <b>1.5</b>  |           | 0.70 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |
| 1,1-Dichloroethane             | 0.81        | U         | 0.81 |     | ug/m3   |   |          | 12/07/18 00:13 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-5\_20181119**

**Lab Sample ID: 200-46353-11**

**Date Collected: 11/19/18 14:50**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte  | Result      | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|--|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| <b>Methyl Ethyl Ketone (2-Butanone)</b>              | <b>20</b>   |           | 1.5  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| cis-1,2-Dichloroethene                               | 0.20        | U         | 0.20 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Chloroform</b>                                    | <b>1.0</b>  |           | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Tetrahydrofuran                                      | 15          | U         | 15   |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,1,1-Trichloroethane                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Cyclohexane</b>                                   | <b>1.1</b>  |           | 0.69 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Carbon tetrachloride</b>                          | <b>0.59</b> |           | 0.22 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 2,2,4-Trimethylpentane                               | 0.93        | U         | 0.93 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Benzene</b>                                       | <b>1.3</b>  |           | 0.64 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichloroethane                                   | 0.81        | U         | 0.81 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>n-Heptane</b>                                     | <b>2.5</b>  |           | 0.82 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Trichloroethene                                      | 0.19        | U         | 0.19 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Methyl methacrylate                                  | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichloropropane                                  | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,4-Dioxane  | 18          | U         | 18   |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Bromodichloromethane                                 | 1.3         | U         | 1.3  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| cis-1,3-Dichloropropene                              | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>4-Methyl-2-pentanone (Methyl isobutyl ketone)</b> | <b>3.5</b>  |           | 2.0  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Toluene</b>                                       | <b>4.3</b>  |           | 0.75 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| trans-1,3-Dichloropropene                            | 0.91        | U         | 0.91 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,1,2-Trichloroethane                                | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Tetrachloroethene</b>                             | <b>2.4</b>  |           | 1.4  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Methyl Butyl Ketone (2-Hexanone)                     | 2.0         | U         | 2.0  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Dibromochloromethane                                 | 1.7         | U         | 1.7  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dibromoethane                                    | 1.5         | U         | 1.5  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Chlorobenzene  | 0.92        | U         | 0.92 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>Ethylbenzene</b>                                  | <b>1.5</b>  |           | 0.87 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>m,p-Xylene</b>                                    | <b>3.3</b>  |           | 2.2  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| <b>o-Xylene</b>                                      | <b>0.94</b> |           | 0.87 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Styrene  | 0.85        | U         | 0.85 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Bromoform  | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Cumene   | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,1,2,2-Tetrachloroethane                            | 1.4         | U         | 1.4  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| n-Propylbenzene                                      | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 4-Ethyltoluene                                       | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,3,5-Trimethylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 2-Chlorotoluene                                      | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| tert-Butylbenzene                                    | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2,4-Trimethylbenzene                               | 0.98        | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| sec-Butylbenzene                                     | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 4-Isopropyltoluene                                   | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,3-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,4-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Benzyl chloride                                      | 1.0         | U         | 1.0  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| n-Butylbenzene                                       | 1.1         | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2-Dichlorobenzene                                  | 1.2         | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| 1,2,4-Trichlorobenzene                               | 3.7         | U         | 3.7  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |
| Hexachlorobutadiene                                  | 2.1         | U         | 2.1  |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |

# Client Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-5\_20181119**

**Lab Sample ID: 200-46353-11**

**Date Collected: 11/19/18 14:50**

**Matrix: Air**

**Date Received: 11/23/18 13:10**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

| Analyte     | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Naphthalene | 2.6    | U         | 2.6 |     | ug/m3 |   |          | 12/07/18 00:13 | 1       |



# Default Detection Limits

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

| Analyte                                       | RL    | MDL   | Units   | Method |
|---|-------|-------|---------|--------|
| 1,1,1-Trichloroethane                         | 0.20  | 0.068 | ppb v/v | TO-15  |
| 1,1,1-Trichloroethane                         | 1.1   | 0.37  | ug/m3   | TO-15  |
| 1,1,2,2-Tetrachloroethane                     | 0.20  | 0.076 | ppb v/v | TO-15  |
| 1,1,2,2-Tetrachloroethane                     | 1.4   | 0.52  | ug/m3   | TO-15  |
| 1,1,2-Trichloroethane                         | 0.20  | 0.078 | ppb v/v | TO-15  |
| 1,1,2-Trichloroethane                         | 1.1   | 0.43  | ug/m3   | TO-15  |
| 1,1,2-Trichlorotrifluoroethane                | 0.20  | 0.031 | ppb v/v | TO-15  |
| 1,1,2-Trichlorotrifluoroethane                | 1.5   | 0.24  | ug/m3   | TO-15  |
| 1,1-Dichloroethane                            | 0.20  | 0.026 | ppb v/v | TO-15  |
| 1,1-Dichloroethane                            | 0.81  | 0.11  | ug/m3   | TO-15  |
| 1,1-Dichloroethene                            | 0.035 | 0.034 | ppb v/v | TO-15  |
| 1,1-Dichloroethene                            | 0.14  | 0.13  | ug/m3   | TO-15  |
| 1,2,4-Trichlorobenzene                        | 0.50  | 0.24  | ppb v/v | TO-15  |
| 1,2,4-Trichlorobenzene                        | 3.7   | 1.8   | ug/m3   | TO-15  |
| 1,2,4-Trimethylbenzene                        | 0.20  | 0.080 | ppb v/v | TO-15  |
| 1,2,4-Trimethylbenzene                        | 0.98  | 0.39  | ug/m3   | TO-15  |
| 1,2-Dibromoethane                             | 0.20  | 0.069 | ppb v/v | TO-15  |
| 1,2-Dibromoethane                             | 1.5   | 0.53  | ug/m3   | TO-15  |
| 1,2-Dichlorobenzene                           | 0.20  | 0.071 | ppb v/v | TO-15  |
| 1,2-Dichlorobenzene                           | 1.2   | 0.43  | ug/m3   | TO-15  |
| 1,2-Dichloroethane                            | 0.20  | 0.063 | ppb v/v | TO-15  |
| 1,2-Dichloroethane                            | 0.81  | 0.25  | ug/m3   | TO-15  |
| 1,2-Dichloropropane                           | 0.20  | 0.12  | ppb v/v | TO-15  |
| 1,2-Dichloropropane                           | 0.92  | 0.55  | ug/m3   | TO-15  |
| 1,2-Dichlorotetrafluoroethane                 | 0.20  | 0.068 | ppb v/v | TO-15  |
| 1,2-Dichlorotetrafluoroethane                 | 1.4   | 0.48  | ug/m3   | TO-15  |
| 1,3,5-Trimethylbenzene                        | 0.20  | 0.058 | ppb v/v | TO-15  |
| 1,3,5-Trimethylbenzene                        | 0.98  | 0.29  | ug/m3   | TO-15  |
| 1,3-Butadiene                                 | 0.20  | 0.065 | ppb v/v | TO-15  |
| 1,3-Butadiene                                 | 0.44  | 0.14  | ug/m3   | TO-15  |
| 1,3-Dichlorobenzene                           | 0.20  | 0.082 | ppb v/v | TO-15  |
| 1,3-Dichlorobenzene                           | 1.2   | 0.49  | ug/m3   | TO-15  |
| 1,4-Dichlorobenzene                           | 0.20  | 0.065 | ppb v/v | TO-15  |
| 1,4-Dichlorobenzene                           | 1.2   | 0.39  | ug/m3   | TO-15  |
| 1,4-Dioxane                                   | 5.0   | 1.3   | ppb v/v | TO-15  |
| 1,4-Dioxane                                   | 18    | 4.7   | ug/m3   | TO-15  |
| 2,2,4-Trimethylpentane                        | 0.20  | 0.088 | ppb v/v | TO-15  |
| 2,2,4-Trimethylpentane                        | 0.93  | 0.41  | ug/m3   | TO-15  |
| 2-Chlorotoluene                               | 0.20  | 0.071 | ppb v/v | TO-15  |
| 2-Chlorotoluene                               | 1.0   | 0.37  | ug/m3   | TO-15  |
| 3-Chloropropene                               | 0.50  | 0.27  | ppb v/v | TO-15  |
| 3-Chloropropene                               | 1.6   | 0.85  | ug/m3   | TO-15  |
| 4-Ethyltoluene                                | 0.20  | 0.069 | ppb v/v | TO-15  |
| 4-Ethyltoluene                                | 0.98  | 0.34  | ug/m3   | TO-15  |
| 4-Isopropyltoluene                            | 0.20  | 0.075 | ppb v/v | TO-15  |
| 4-Isopropyltoluene                            | 1.1   | 0.41  | ug/m3   | TO-15  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50  | 0.36  | ppb v/v | TO-15  |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0   | 1.5   | ug/m3   | TO-15  |
| Acetone                                       | 5.0   | 2.6   | ppb v/v | TO-15  |
| Acetone                                       | 12    | 6.2   | ug/m3   | TO-15  |
| Benzene                                       | 0.20  | 0.071 | ppb v/v | TO-15  |
| Benzene                                       | 0.64  | 0.23  | ug/m3   | TO-15  |

# Default Detection Limits

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte                          | RL    | MDL   | Units   | Method |
|----------------------------------|-------|-------|---------|--------|
| Benzyl chloride                  | 0.20  | 0.12  | ppb v/v | TO-15  |
| Benzyl chloride                  | 1.0   | 0.62  | ug/m3   | TO-15  |
| Bromodichloromethane             | 0.20  | 0.094 | ppb v/v | TO-15  |
| Bromodichloromethane             | 1.3   | 0.63  | ug/m3   | TO-15  |
| Bromoethene(Vinyl Bromide)       | 0.20  | 0.056 | ppb v/v | TO-15  |
| Bromoethene(Vinyl Bromide)       | 0.87  | 0.24  | ug/m3   | TO-15  |
| Bromoform                        | 0.20  | 0.086 | ppb v/v | TO-15  |
| Bromoform                        | 2.1   | 0.89  | ug/m3   | TO-15  |
| Bromomethane                     | 0.20  | 0.062 | ppb v/v | TO-15  |
| Bromomethane                     | 0.78  | 0.24  | ug/m3   | TO-15  |
| Carbon disulfide                 | 0.50  | 0.12  | ppb v/v | TO-15  |
| Carbon disulfide                 | 1.6   | 0.37  | ug/m3   | TO-15  |
| Carbon tetrachloride             | 0.035 | 0.024 | ppb v/v | TO-15  |
| Carbon tetrachloride             | 0.22  | 0.15  | ug/m3   | TO-15  |
| Chlorobenzene                    | 0.20  | 0.040 | ppb v/v | TO-15  |
| Chlorobenzene                    | 0.92  | 0.18  | ug/m3   | TO-15  |
| Chlorodifluoromethane            | 0.50  | 0.26  | ppb v/v | TO-15  |
| Chlorodifluoromethane            | 1.8   | 0.92  | ug/m3   | TO-15  |
| Chloroethane                     | 0.50  | 0.21  | ppb v/v | TO-15  |
| Chloroethane                     | 1.3   | 0.55  | ug/m3   | TO-15  |
| Chloroform                       | 0.20  | 0.052 | ppb v/v | TO-15  |
| Chloroform                       | 0.98  | 0.25  | ug/m3   | TO-15  |
| Chloromethane                    | 0.50  | 0.25  | ppb v/v | TO-15  |
| Chloromethane                    | 1.0   | 0.52  | ug/m3   | TO-15  |
| cis-1,2-Dichloroethene           | 0.050 | 0.037 | ppb v/v | TO-15  |
| cis-1,2-Dichloroethene           | 0.20  | 0.15  | ug/m3   | TO-15  |
| cis-1,3-Dichloropropene          | 0.20  | 0.098 | ppb v/v | TO-15  |
| cis-1,3-Dichloropropene          | 0.91  | 0.44  | ug/m3   | TO-15  |
| Cumene                           | 0.20  | 0.059 | ppb v/v | TO-15  |
| Cumene                           | 0.98  | 0.29  | ug/m3   | TO-15  |
| Cyclohexane                      | 0.20  | 0.063 | ppb v/v | TO-15  |
| Cyclohexane                      | 0.69  | 0.22  | ug/m3   | TO-15  |
| Dibromochloromethane             | 0.20  | 0.071 | ppb v/v | TO-15  |
| Dibromochloromethane             | 1.7   | 0.60  | ug/m3   | TO-15  |
| Dichlorodifluoromethane          | 0.50  | 0.20  | ppb v/v | TO-15  |
| Dichlorodifluoromethane          | 2.5   | 0.99  | ug/m3   | TO-15  |
| Ethylbenzene                     | 0.20  | 0.073 | ppb v/v | TO-15  |
| Ethylbenzene                     | 0.87  | 0.32  | ug/m3   | TO-15  |
| Hexachlorobutadiene              | 0.20  | 0.082 | ppb v/v | TO-15  |
| Hexachlorobutadiene              | 2.1   | 0.87  | ug/m3   | TO-15  |
| Isopropyl alcohol                | 5.0   | 1.8   | ppb v/v | TO-15  |
| Isopropyl alcohol                | 12    | 4.4   | ug/m3   | TO-15  |
| m,p-Xylene                       | 0.50  | 0.070 | ppb v/v | TO-15  |
| m,p-Xylene                       | 2.2   | 0.30  | ug/m3   | TO-15  |
| Methyl Butyl Ketone (2-Hexanone) | 0.50  | 0.42  | ppb v/v | TO-15  |
| Methyl Butyl Ketone (2-Hexanone) | 2.0   | 1.7   | ug/m3   | TO-15  |
| Methyl Ethyl Ketone (2-Butanone) | 0.50  | 0.20  | ppb v/v | TO-15  |
| Methyl Ethyl Ketone (2-Butanone) | 1.5   | 0.59  | ug/m3   | TO-15  |
| Methyl methacrylate              | 0.50  | 0.22  | ppb v/v | TO-15  |
| Methyl methacrylate              | 2.0   | 0.90  | ug/m3   | TO-15  |
| Methyl tert-butyl ether          | 0.20  | 0.061 | ppb v/v | TO-15  |
| Methyl tert-butyl ether          | 0.72  | 0.22  | ug/m3   | TO-15  |

# Default Detection Limits

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

| Analyte                   | RL    | MDL   | Units   | Method |
|---------------------------|-------|-------|---------|--------|
| Methylene Chloride        | 0.50  | 0.20  | ppb v/v | TO-15  |
| Methylene Chloride        | 1.7   | 0.69  | ug/m3   | TO-15  |
| Naphthalene               | 0.50  | 0.31  | ppb v/v | TO-15  |
| Naphthalene               | 2.6   | 1.6   | ug/m3   | TO-15  |
| n-Butane                  | 0.50  | 0.31  | ppb v/v | TO-15  |
| n-Butane                  | 1.2   | 0.74  | ug/m3   | TO-15  |
| n-Butylbenzene            | 0.20  | 0.080 | ppb v/v | TO-15  |
| n-Butylbenzene            | 1.1   | 0.44  | ug/m3   | TO-15  |
| n-Heptane                 | 0.20  | 0.14  | ppb v/v | TO-15  |
| n-Heptane                 | 0.82  | 0.57  | ug/m3   | TO-15  |
| n-Hexane                  | 0.20  | 0.16  | ppb v/v | TO-15  |
| n-Hexane                  | 0.70  | 0.56  | ug/m3   | TO-15  |
| n-Propylbenzene           | 0.20  | 0.069 | ppb v/v | TO-15  |
| n-Propylbenzene           | 0.98  | 0.34  | ug/m3   | TO-15  |
| o-Xylene                  | 0.20  | 0.071 | ppb v/v | TO-15  |
| o-Xylene                  | 0.87  | 0.31  | ug/m3   | TO-15  |
| sec-Butylbenzene          | 0.20  | 0.066 | ppb v/v | TO-15  |
| sec-Butylbenzene          | 1.1   | 0.36  | ug/m3   | TO-15  |
| Styrene                   | 0.20  | 0.086 | ppb v/v | TO-15  |
| Styrene                   | 0.85  | 0.37  | ug/m3   | TO-15  |
| tert-Butyl alcohol        | 5.0   | 1.5   | ppb v/v | TO-15  |
| tert-Butyl alcohol        | 15    | 4.5   | ug/m3   | TO-15  |
| tert-Butylbenzene         | 0.20  | 0.058 | ppb v/v | TO-15  |
| tert-Butylbenzene         | 1.1   | 0.32  | ug/m3   | TO-15  |
| Tetrachloroethene         | 0.20  | 0.029 | ppb v/v | TO-15  |
| Tetrachloroethene         | 1.4   | 0.20  | ug/m3   | TO-15  |
| Tetrahydrofuran           | 5.0   | 2.6   | ppb v/v | TO-15  |
| Tetrahydrofuran           | 15    | 7.7   | ug/m3   | TO-15  |
| Toluene                   | 0.20  | 0.069 | ppb v/v | TO-15  |
| Toluene                   | 0.75  | 0.26  | ug/m3   | TO-15  |
| trans-1,2-Dichloroethene  | 0.20  | 0.074 | ppb v/v | TO-15  |
| trans-1,2-Dichloroethene  | 0.79  | 0.29  | ug/m3   | TO-15  |
| trans-1,3-Dichloropropene | 0.20  | 0.12  | ppb v/v | TO-15  |
| trans-1,3-Dichloropropene | 0.91  | 0.54  | ug/m3   | TO-15  |
| Trichloroethene           | 0.035 | 0.030 | ppb v/v | TO-15  |
| Trichloroethene           | 0.19  | 0.16  | ug/m3   | TO-15  |
| Trichlorofluoromethane    | 0.20  | 0.062 | ppb v/v | TO-15  |
| Trichlorofluoromethane    | 1.1   | 0.35  | ug/m3   | TO-15  |
| Vinyl chloride            | 0.078 | 0.041 | ppb v/v | TO-15  |
| Vinyl chloride            | 0.20  | 0.10  | ug/m3   | TO-15  |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-137819/5**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                                       | MB     | MB        | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-------|-----|---------|---|----------|----------------|---------|
|   | Result | Qualifier |       |     |         |   |          |                |         |
| Dichlorodifluoromethane                       | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Chlorodifluoromethane                         | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichlorotetrafluoroethane                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Chloromethane                                 | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| n-Butane                                      | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Vinyl chloride                                | 0.078  | U         | 0.078 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,3-Butadiene                                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Bromomethane                                  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Chloroethane                                  | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Trichlorofluoromethane                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1-Dichloroethene                            | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Acetone                                       | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Isopropyl alcohol                             | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Carbon disulfide                              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 3-Chloropropene                               | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Methylene Chloride                            | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| tert-Butyl alcohol                            | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Methyl tert-butyl ether                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| trans-1,2-Dichloroethene                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| n-Hexane                                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| cis-1,2-Dichloroethene                        | 0.050  | U         | 0.050 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Chloroform                                    | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Tetrahydrofuran                               | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1,1-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Cyclohexane                                   | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Carbon tetrachloride                          | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 2,2,4-Trimethylpentane                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Benzene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| n-Heptane                                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Trichloroethene                               | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Methyl methacrylate                           | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichloropropane                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,4-Dioxane                                   | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Bromodichloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| cis-1,3-Dichloropropene                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Toluene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| trans-1,3-Dichloropropene                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1,2-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Tetrachloroethene                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Dibromochloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                   | MB     | MB        | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|---------|---|----------|----------------|---------|
|                           | Result | Qualifier |      |     |         |   |          |                |         |
| 1,2-Dibromoethane         | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Chlorobenzene             | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Ethylbenzene              | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| m,p-Xylene                | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| o-Xylene                  | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Styrene                   | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Bromoform                 | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Cumene                    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| n-Propylbenzene           | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 4-Ethyltoluene            | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,3,5-Trimethylbenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 2-Chlorotoluene           | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| tert-Butylbenzene         | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2,4-Trimethylbenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| sec-Butylbenzene          | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 4-Isopropyltoluene        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,3-Dichlorobenzene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,4-Dichlorobenzene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Benzyl chloride           | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| n-Butylbenzene            | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichlorobenzene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| 1,2,4-Trichlorobenzene    | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Hexachlorobutadiene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |
| Naphthalene               | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/05/18 17:29 | 1       |

| Analyte                        | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|                                | Result | Qualifier |      |     |       |   |          |                |         |
| Dichlorodifluoromethane        | 2.5    | U         | 2.5  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Chlorodifluoromethane          | 1.8    | U         | 1.8  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Chloromethane                  | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| n-Butane                       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Vinyl chloride                 | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,3-Butadiene                  | 0.44   | U         | 0.44 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Bromomethane                   | 0.78   | U         | 0.78 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Chloroethane                   | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Trichlorofluoromethane         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1-Dichloroethene             | 0.14   | U         | 0.14 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Acetone                        | 12     | U         | 12   |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Isopropyl alcohol              | 12     | U         | 12   |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Carbon disulfide               | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 3-Chloropropene                | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Methylene Chloride             | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| tert-Butyl alcohol             | 15     | U         | 15   |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Methyl tert-butyl ether        | 0.72   | U         | 0.72 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| trans-1,2-Dichloroethene       | 0.79   | U         | 0.79 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**

**Matrix: Air**

**Analysis Batch: 137819**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                                       | MB MB  |           | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|   | Result | Qualifier |      |     |       |   |          |                |         |
| n-Hexane                                      | 0.70   | U         | 0.70 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| cis-1,2-Dichloroethene                        | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Chloroform                                    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Tetrahydrofuran                               | 15     | U         | 15   |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1,1-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Cyclohexane                                   | 0.69   | U         | 0.69 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Carbon tetrachloride                          | 0.22   | U         | 0.22 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 2,2,4-Trimethylpentane                        | 0.93   | U         | 0.93 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Benzene                                       | 0.64   | U         | 0.64 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| n-Heptane                                     | 0.82   | U         | 0.82 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Trichloroethene                               | 0.19   | U         | 0.19 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Methyl methacrylate                           | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dichloropropane                           | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,4-Dioxane                                   | 18     | U         | 18   |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Bromodichloromethane                          | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| cis-1,3-Dichloropropene                       | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Toluene                                       | 0.75   | U         | 0.75 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| trans-1,3-Dichloropropene                     | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1,2-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Tetrachloroethene                             | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Dibromochloromethane                          | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2-Dibromoethane                             | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Chlorobenzene                                 | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Ethylbenzene                                  | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| m,p-Xylene                                    | 2.2    | U         | 2.2  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| o-Xylene                                      | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Styrene                                       | 0.85   | U         | 0.85 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Bromoform                                     | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Cumene  | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| n-Propylbenzene                               | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 4-Ethyltoluene                                | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 2-Chlorotoluene                               | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| tert-Butylbenzene                             | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| sec-Butylbenzene                              | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 4-Isopropyltoluene                            | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,3-Dichlorobenzene                           | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,4-Dichlorobenzene                           | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Benzyl chloride                               | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| n-Butylbenzene                                | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137819/5**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene    | 1.2       | U            | 1.2 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| 1,2,4-Trichlorobenzene | 3.7       | U            | 3.7 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Hexachlorobutadiene    | 2.1       | U            | 2.1 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |
| Naphthalene            | 2.6       | U            | 2.6 |     | ug/m3 |   |          | 12/05/18 17:29 | 1       |

**Lab Sample ID: LCS 200-137819/6**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
|----------------------------------|-------------|------------|---------------|---------|---|------|--------------|
| Dichlorodifluoromethane          | 10.0        | 11.4       |               | ppb v/v |   | 114  | 68 - 128     |
| Chlorodifluoromethane            | 10.0        | 11.0       |               | ppb v/v |   | 110  | 64 - 128     |
| 1,2-Dichlorotetrafluoroethane    | 10.0        | 11.1       |               | ppb v/v |   | 111  | 78 - 138     |
| Chloromethane                    | 10.0        | 10.5       |               | ppb v/v |   | 105  | 57 - 126     |
| n-Butane                         | 10.0        | 10.3       |               | ppb v/v |   | 103  | 56 - 130     |
| Vinyl chloride                   | 10.0        | 10.1       |               | ppb v/v |   | 101  | 62 - 125     |
| 1,3-Butadiene                    | 10.0        | 10.3       |               | ppb v/v |   | 103  | 59 - 125     |
| Bromomethane                     | 10.0        | 10.7       |               | ppb v/v |   | 107  | 68 - 128     |
| Chloroethane                     | 10.0        | 10.8       |               | ppb v/v |   | 108  | 65 - 125     |
| Bromoethene(Vinyl Bromide)       | 10.0        | 10.7       |               | ppb v/v |   | 107  | 67 - 127     |
| Trichlorofluoromethane           | 10.0        | 10.8       |               | ppb v/v |   | 108  | 67 - 127     |
| 1,1,2-Trichlorotrifluoroethane   | 10.0        | 11.1       |               | ppb v/v |   | 111  | 68 - 128     |
| 1,1-Dichloroethene               | 10.0        | 10.6       |               | ppb v/v |   | 106  | 67 - 127     |
| Acetone                          | 10.0        | 11.9       |               | ppb v/v |   | 119  | 64 - 136     |
| Isopropyl alcohol                | 10.0        | 10.3       |               | ppb v/v |   | 103  | 55 - 124     |
| Carbon disulfide                 | 10.0        | 10.7       |               | ppb v/v |   | 107  | 81 - 141     |
| 3-Chloropropene                  | 10.0        | 10.9       |               | ppb v/v |   | 109  | 53 - 133     |
| Methylene Chloride               | 10.0        | 10.9       |               | ppb v/v |   | 109  | 62 - 122     |
| tert-Butyl alcohol               | 10.0        | 10.2       |               | ppb v/v |   | 102  | 64 - 124     |
| Methyl tert-butyl ether          | 10.0        | 11.5       |               | ppb v/v |   | 115  | 67 - 127     |
| trans-1,2-Dichloroethene         | 10.0        | 10.8       |               | ppb v/v |   | 108  | 72 - 132     |
| n-Hexane                         | 10.0        | 11.0       |               | ppb v/v |   | 110  | 71 - 131     |
| 1,1-Dichloroethane               | 10.0        | 10.7       |               | ppb v/v |   | 107  | 66 - 126     |
| Methyl Ethyl Ketone (2-Butanone) | 10.0        | 10.7       |               | ppb v/v |   | 107  | 62 - 122     |
| cis-1,2-Dichloroethene           | 10.0        | 11.8       |               | ppb v/v |   | 118  | 67 - 127     |
| Chloroform                       | 10.0        | 11.2       |               | ppb v/v |   | 112  | 69 - 129     |
| Tetrahydrofuran                  | 10.0        | 9.40       |               | ppb v/v |   | 94   | 61 - 136     |
| 1,1,1-Trichloroethane            | 10.0        | 9.75       |               | ppb v/v |   | 98   | 70 - 130     |
| Cyclohexane                      | 10.0        | 9.31       |               | ppb v/v |   | 93   | 69 - 129     |
| Carbon tetrachloride             | 10.0        | 10.1       |               | ppb v/v |   | 101  | 62 - 143     |
| 2,2,4-Trimethylpentane           | 10.0        | 9.45       |               | ppb v/v |   | 94   | 67 - 127     |
| Benzene                          | 10.0        | 10.6       |               | ppb v/v |   | 106  | 67 - 127     |
| 1,2-Dichloroethane               | 10.0        | 10.3       |               | ppb v/v |   | 103  | 67 - 132     |
| n-Heptane                        | 10.0        | 9.99       |               | ppb v/v |   | 100  | 62 - 130     |
| Trichloroethene                  | 10.0        | 9.29       |               | ppb v/v |   | 93   | 68 - 128     |
| Methyl methacrylate              | 10.0        | 9.83       |               | ppb v/v |   | 98   | 70 - 130     |
| 1,2-Dichloropropane              | 10.0        | 11.2       |               | ppb v/v |   | 112  | 67 - 127     |
| 1,4-Dioxane                      | 10.0        | 9.74       |               | ppb v/v |   | 97   | 66 - 132     |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                                       | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
|---|-------------|------------|---------------|---------|---|------|--------------|
| Bromodichloromethane                          | 10.0        | 10.5       |               | ppb v/v |   | 105  | 69 - 129     |
| cis-1,3-Dichloropropene                       | 10.0        | 11.1       |               | ppb v/v |   | 111  | 70 - 130     |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0        | 8.95       |               | ppb v/v |   | 90   | 62 - 130     |
| Toluene                                       | 10.0        | 12.3       |               | ppb v/v |   | 123  | 67 - 127     |
| trans-1,3-Dichloropropene                     | 10.0        | 10.6       |               | ppb v/v |   | 106  | 69 - 129     |
| 1,1,2-Trichloroethane                         | 10.0        | 11.5       |               | ppb v/v |   | 115  | 69 - 129     |
| Tetrachloroethene                             | 10.0        | 11.5       |               | ppb v/v |   | 115  | 70 - 130     |
| Methyl Butyl Ketone (2-Hexanone)              | 10.0        | 9.34       |               | ppb v/v |   | 93   | 61 - 127     |
| Dibromochloromethane                          | 10.0        | 12.2       |               | ppb v/v |   | 122  | 66 - 130     |
| 1,2-Dibromoethane                             | 10.0        | 12.4       |               | ppb v/v |   | 124  | 70 - 130     |
| Chlorobenzene                                 | 10.0        | 12.1       |               | ppb v/v |   | 121  | 68 - 128     |
| Ethylbenzene                                  | 10.0        | 11.4       |               | ppb v/v |   | 114  | 68 - 128     |
| m,p-Xylene                                    | 20.0        | 22.7       |               | ppb v/v |   | 113  | 68 - 128     |
| o-Xylene                                      | 10.0        | 11.6       |               | ppb v/v |   | 116  | 67 - 127     |
| Styrene                                       | 10.0        | 11.5       |               | ppb v/v |   | 115  | 68 - 128     |
| Bromoform                                     | 10.0        | 12.8       |               | ppb v/v |   | 129  | 34 - 170     |
| Cumene  | 10.0        | 11.5       |               | ppb v/v |   | 115  | 67 - 127     |
| 1,1,2,2-Tetrachloroethane                     | 10.0        | 10.2       |               | ppb v/v |   | 102  | 69 - 129     |
| n-Propylbenzene                               | 10.0        | 10.8       |               | ppb v/v |   | 108  | 67 - 127     |
| 4-Ethyltoluene                                | 10.0        | 11.0       |               | ppb v/v |   | 110  | 69 - 129     |
| 1,3,5-Trimethylbenzene                        | 10.0        | 11.0       |               | ppb v/v |   | 110  | 65 - 125     |
| 2-Chlorotoluene                               | 10.0        | 11.0       |               | ppb v/v |   | 110  | 67 - 127     |
| tert-Butylbenzene                             | 10.0        | 11.1       |               | ppb v/v |   | 111  | 63 - 125     |
| 1,2,4-Trimethylbenzene                        | 10.0        | 10.9       |               | ppb v/v |   | 109  | 65 - 125     |
| sec-Butylbenzene                              | 10.0        | 11.1       |               | ppb v/v |   | 111  | 66 - 126     |
| 4-Isopropyltoluene                            | 10.0        | 11.1       |               | ppb v/v |   | 111  | 67 - 129     |
| 1,3-Dichlorobenzene                           | 10.0        | 11.0       |               | ppb v/v |   | 110  | 67 - 127     |
| 1,4-Dichlorobenzene                           | 10.0        | 11.3       |               | ppb v/v |   | 113  | 66 - 126     |
| Benzyl chloride                               | 10.0        | 10.1       |               | ppb v/v |   | 101  | 54 - 135     |
| n-Butylbenzene                                | 10.0        | 10.7       |               | ppb v/v |   | 107  | 67 - 127     |
| 1,2-Dichlorobenzene                           | 10.0        | 10.9       |               | ppb v/v |   | 109  | 67 - 127     |
| 1,2,4-Trichlorobenzene                        | 10.0        | 8.14       |               | ppb v/v |   | 81   | 59 - 126     |
| Hexachlorobutadiene                           | 10.0        | 8.93       |               | ppb v/v |   | 89   | 62 - 130     |
| Naphthalene                                   | 10.0        | 7.46       |               | ppb v/v |   | 75   | 50 - 121     |
| Analyte                                       | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
| Dichlorodifluoromethane                       | 49          | 56.5       |               | ug/m3   |   | 114  | 68 - 128     |
| Chlorodifluoromethane                         | 35          | 39.1       |               | ug/m3   |   | 110  | 64 - 128     |
| 1,2-Dichlorotetrafluoroethane                 | 70          | 77.4       |               | ug/m3   |   | 111  | 78 - 138     |
| Chloromethane                                 | 21          | 21.6       |               | ug/m3   |   | 105  | 57 - 126     |
| n-Butane                                      | 24          | 24.6       |               | ug/m3   |   | 103  | 56 - 130     |
| Vinyl chloride                                | 26          | 25.7       |               | ug/m3   |   | 101  | 62 - 125     |
| 1,3-Butadiene                                 | 22          | 22.9       |               | ug/m3   |   | 103  | 59 - 125     |
| Bromomethane                                  | 39          | 41.6       |               | ug/m3   |   | 107  | 68 - 128     |
| Chloroethane                                  | 26          | 28.4       |               | ug/m3   |   | 108  | 65 - 125     |
| Bromoethene(Vinyl Bromide)                    | 44          | 46.7       |               | ug/m3   |   | 107  | 67 - 127     |
| Trichlorofluoromethane                        | 56          | 60.7       |               | ug/m3   |   | 108  | 67 - 127     |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--|----------------|---------------|------------------|-------|---|------|-----------------|
| 1,1,2-Trichlorotrifluoroethane                   | 77             | 85.1          |                  | ug/m3 |   | 111  | 68 - 128        |
| 1,1-Dichloroethene                               | 40             | 42.2          |                  | ug/m3 |   | 106  | 67 - 127        |
| Acetone  | 24             | 28.3          |                  | ug/m3 |   | 119  | 64 - 136        |
| Isopropyl alcohol                                | 25             | 25.4          |                  | ug/m3 |   | 103  | 55 - 124        |
| Carbon disulfide                                 | 31             | 33.4          |                  | ug/m3 |   | 107  | 81 - 141        |
| 3-Chloropropene                                  | 31             | 34.0          |                  | ug/m3 |   | 109  | 53 - 133        |
| Methylene Chloride                               | 35             | 37.7          |                  | ug/m3 |   | 109  | 62 - 122        |
| tert-Butyl alcohol                               | 30             | 30.8          |                  | ug/m3 |   | 102  | 64 - 124        |
| Methyl tert-butyl ether                          | 36             | 41.5          |                  | ug/m3 |   | 115  | 67 - 127        |
| trans-1,2-Dichloroethene                         | 40             | 42.8          |                  | ug/m3 |   | 108  | 72 - 132        |
| n-Hexane   | 35             | 38.9          |                  | ug/m3 |   | 110  | 71 - 131        |
| 1,1-Dichloroethane                               | 40             | 43.1          |                  | ug/m3 |   | 107  | 66 - 126        |
| Methyl Ethyl Ketone<br>(2-Butanone)              | 29             | 31.6          |                  | ug/m3 |   | 107  | 62 - 122        |
| cis-1,2-Dichloroethene                           | 40             | 46.7          |                  | ug/m3 |   | 118  | 67 - 127        |
| Chloroform                                       | 49             | 54.6          |                  | ug/m3 |   | 112  | 69 - 129        |
| Tetrahydrofuran                                  | 29             | 27.7          |                  | ug/m3 |   | 94   | 61 - 136        |
| 1,1,1-Trichloroethane                            | 55             | 53.2          |                  | ug/m3 |   | 98   | 70 - 130        |
| Cyclohexane                                      | 34             | 32.0          |                  | ug/m3 |   | 93   | 69 - 129        |
| Carbon tetrachloride                             | 63             | 63.6          |                  | ug/m3 |   | 101  | 62 - 143        |
| 2,2,4-Trimethylpentane                           | 47             | 44.1          |                  | ug/m3 |   | 94   | 67 - 127        |
| Benzene  | 32             | 33.7          |                  | ug/m3 |   | 106  | 67 - 127        |
| 1,2-Dichloroethane                               | 40             | 41.5          |                  | ug/m3 |   | 103  | 67 - 132        |
| n-Heptane  | 41             | 41.0          |                  | ug/m3 |   | 100  | 62 - 130        |
| Trichloroethene                                  | 54             | 49.9          |                  | ug/m3 |   | 93   | 68 - 128        |
| Methyl methacrylate                              | 41             | 40.3          |                  | ug/m3 |   | 98   | 70 - 130        |
| 1,2-Dichloropropane                              | 46             | 51.7          |                  | ug/m3 |   | 112  | 67 - 127        |
| 1,4-Dioxane                                      | 36             | 35.1          |                  | ug/m3 |   | 97   | 66 - 132        |
| Bromodichloromethane                             | 67             | 70.2          |                  | ug/m3 |   | 105  | 69 - 129        |
| cis-1,3-Dichloropropene                          | 45             | 50.4          |                  | ug/m3 |   | 111  | 70 - 130        |
| 4-Methyl-2-pentanone (Methyl<br>isobutyl ketone) | 41             | 36.7          |                  | ug/m3 |   | 90   | 62 - 130        |
| Toluene  | 38             | 46.2          |                  | ug/m3 |   | 123  | 67 - 127        |
| trans-1,3-Dichloropropene                        | 45             | 48.1          |                  | ug/m3 |   | 106  | 69 - 129        |
| 1,1,2-Trichloroethane                            | 55             | 62.6          |                  | ug/m3 |   | 115  | 69 - 129        |
| Tetrachloroethene                                | 68             | 78.3          |                  | ug/m3 |   | 115  | 70 - 130        |
| Methyl Butyl Ketone<br>(2-Hexanone)              | 41             | 38.3          |                  | ug/m3 |   | 93   | 61 - 127        |
| Dibromochloromethane                             | 85             | 104           |                  | ug/m3 |   | 122  | 66 - 130        |
| 1,2-Dibromoethane                                | 77             | 95.1          |                  | ug/m3 |   | 124  | 70 - 130        |
| Chlorobenzene                                    | 46             | 55.9          |                  | ug/m3 |   | 121  | 68 - 128        |
| Ethylbenzene                                     | 43             | 49.3          |                  | ug/m3 |   | 114  | 68 - 128        |
| m,p-Xylene                                       | 87             | 98.5          |                  | ug/m3 |   | 113  | 68 - 128        |
| o-Xylene   | 43             | 50.2          |                  | ug/m3 |   | 116  | 67 - 127        |
| Styrene  | 43             | 49.0          |                  | ug/m3 |   | 115  | 68 - 128        |
| Bromoform  | 100            | 133           |                  | ug/m3 |   | 129  | 34 - 170        |
| Cumene   | 49             | 56.7          |                  | ug/m3 |   | 115  | 67 - 127        |
| 1,1,2,2-Tetrachloroethane                        | 69             | 70.2          |                  | ug/m3 |   | 102  | 69 - 129        |
| n-Propylbenzene                                  | 49             | 53.1          |                  | ug/m3 |   | 108  | 67 - 127        |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137819/6**  
**Matrix: Air**  
**Analysis Batch: 137819**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| 4-Ethyltoluene         | 49             | 53.9          |                  | ug/m3 |   | 110  | 69 - 129        |
| 1,3,5-Trimethylbenzene | 49             | 54.0          |                  | ug/m3 |   | 110  | 65 - 125        |
| 2-Chlorotoluene        | 52             | 56.9          |                  | ug/m3 |   | 110  | 67 - 127        |
| tert-Butylbenzene      | 55             | 61.1          |                  | ug/m3 |   | 111  | 63 - 125        |
| 1,2,4-Trimethylbenzene | 49             | 53.6          |                  | ug/m3 |   | 109  | 65 - 125        |
| sec-Butylbenzene       | 55             | 60.8          |                  | ug/m3 |   | 111  | 66 - 126        |
| 4-Isopropyltoluene     | 55             | 61.2          |                  | ug/m3 |   | 111  | 67 - 129        |
| 1,3-Dichlorobenzene    | 60             | 66.3          |                  | ug/m3 |   | 110  | 67 - 127        |
| 1,4-Dichlorobenzene    | 60             | 67.7          |                  | ug/m3 |   | 113  | 66 - 126        |
| Benzyl chloride        | 52             | 52.5          |                  | ug/m3 |   | 101  | 54 - 135        |
| n-Butylbenzene         | 55             | 59.0          |                  | ug/m3 |   | 107  | 67 - 127        |
| 1,2-Dichlorobenzene    | 60             | 65.5          |                  | ug/m3 |   | 109  | 67 - 127        |
| 1,2,4-Trichlorobenzene | 74             | 60.4          |                  | ug/m3 |   | 81   | 59 - 126        |
| Hexachlorobutadiene    | 110            | 95.3          |                  | ug/m3 |   | 89   | 62 - 130        |
| Naphthalene            | 52             | 39.1          |                  | ug/m3 |   | 75   | 50 - 121        |

**Lab Sample ID: MB 200-137867/5**  
**Matrix: Air**  
**Analysis Batch: 137867**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                          | MB<br>Result | MB<br>Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|--------------|-----------------|-------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane          | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Chlorodifluoromethane            | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichlorotetrafluoroethane    | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Chloromethane                    | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| n-Butane                         | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Vinyl chloride                   | 0.078        | U               | 0.078 |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,3-Butadiene                    | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Bromomethane                     | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Chloroethane                     | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Bromoethene(Vinyl Bromide)       | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Trichlorofluoromethane           | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,1,2-Trichlorotrifluoroethane   | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,1-Dichloroethene               | 0.035        | U               | 0.035 |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Acetone                          | 5.0          | U               | 5.0   |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Isopropyl alcohol                | 5.0          | U               | 5.0   |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Carbon disulfide                 | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 3-Chloropropene                  | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Methylene Chloride               | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| tert-Butyl alcohol               | 5.0          | U               | 5.0   |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Methyl tert-butyl ether          | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| trans-1,2-Dichloroethene         | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| n-Hexane                         | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,1-Dichloroethane               | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Methyl Ethyl Ketone (2-Butanone) | 0.50         | U               | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| cis-1,2-Dichloroethene           | 0.050        | U               | 0.050 |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Chloroform                       | 0.20         | U               | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Tetrahydrofuran                  | 5.0          | U               | 5.0   |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137867/5**

**Matrix: Air**

**Analysis Batch: 137867**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                                       | MB MB  |           | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-------|-----|---------|---|----------|----------------|---------|
|   | Result | Qualifier |       |     |         |   |          |                |         |
| 1,1,1-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Cyclohexane                                   | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Carbon tetrachloride                          | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 2,2,4-Trimethylpentane                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Benzene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| n-Heptane                                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Trichloroethene                               | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Methyl methacrylate                           | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichloropropane                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,4-Dioxane                                   | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Bromodichloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| cis-1,3-Dichloropropene                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Toluene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| trans-1,3-Dichloropropene                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,1,2-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Tetrachloroethene                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Dibromochloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dibromoethane                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Chlorobenzene                                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Ethylbenzene                                  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| m,p-Xylene                                    | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| o-Xylene                                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Styrene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Bromoform                                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Cumene  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| n-Propylbenzene                               | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 4-Ethyltoluene                                | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 2-Chlorotoluene                               | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| tert-Butylbenzene                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| sec-Butylbenzene                              | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 4-Isopropyltoluene                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,3-Dichlorobenzene                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,4-Dichlorobenzene                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Benzyl chloride                               | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| n-Butylbenzene                                | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichlorobenzene                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| 1,2,4-Trichlorobenzene                        | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Hexachlorobutadiene                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |
| Naphthalene                                   | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/06/18 17:33 | 1       |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

| Analyte                                       | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|   | Result | Qualifier |      |     |       |   |          |                |         |
| Dichlorodifluoromethane                       | 2.5    | U         | 2.5  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Chlorodifluoromethane                         | 1.8    | U         | 1.8  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichlorotetrafluoroethane                 | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Chloromethane                                 | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| n-Butane                                      | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Vinyl chloride                                | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,3-Butadiene                                 | 0.44   | U         | 0.44 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Bromomethane                                  | 0.78   | U         | 0.78 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Chloroethane                                  | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Bromoethene(Vinyl Bromide)                    | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Trichlorofluoromethane                        | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1,2-Trichlorotrifluoroethane                | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1-Dichloroethene                            | 0.14   | U         | 0.14 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Acetone                                       | 12     | U         | 12   |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Isopropyl alcohol                             | 12     | U         | 12   |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Carbon disulfide                              | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 3-Chloropropene                               | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Methylene Chloride                            | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| tert-Butyl alcohol                            | 15     | U         | 15   |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Methyl tert-butyl ether                       | 0.72   | U         | 0.72 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| trans-1,2-Dichloroethene                      | 0.79   | U         | 0.79 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| n-Hexane                                      | 0.70   | U         | 0.70 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| cis-1,2-Dichloroethene                        | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Chloroform                                    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Tetrahydrofuran                               | 15     | U         | 15   |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1,1-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Cyclohexane                                   | 0.69   | U         | 0.69 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Carbon tetrachloride                          | 0.22   | U         | 0.22 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 2,2,4-Trimethylpentane                        | 0.93   | U         | 0.93 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Benzene                                       | 0.64   | U         | 0.64 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichloroethane                            | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| n-Heptane                                     | 0.82   | U         | 0.82 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Trichloroethene                               | 0.19   | U         | 0.19 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Methyl methacrylate                           | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichloropropane                           | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,4-Dioxane                                   | 18     | U         | 18   |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Bromodichloromethane                          | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| cis-1,3-Dichloropropene                       | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Toluene                                       | 0.75   | U         | 0.75 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| trans-1,3-Dichloropropene                     | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1,2-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Tetrachloroethene                             | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Dibromochloromethane                          | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dibromoethane                             | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Chlorobenzene                                 | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Ethylbenzene                                  | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| m,p-Xylene                                    | 2.2    | U         | 2.2  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| o-Xylene                                      | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Styrene                                       | 0.85   | U         | 0.85 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137867/5**

**Matrix: Air**

**Analysis Batch: 137867**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                   | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|                           | Result | Qualifier |      |     |       |   |          |                |         |
| Bromoform                 | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Cumene                    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,1,2,2-Tetrachloroethane | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| n-Propylbenzene           | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 4-Ethyltoluene            | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,3,5-Trimethylbenzene    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 2-Chlorotoluene           | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| tert-Butylbenzene         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2,4-Trimethylbenzene    | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| sec-Butylbenzene          | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 4-Isopropyltoluene        | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,3-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,4-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Benzyl chloride           | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| n-Butylbenzene            | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2-Dichlorobenzene       | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| 1,2,4-Trichlorobenzene    | 3.7    | U         | 3.7  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Hexachlorobutadiene       | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |
| Naphthalene               | 2.6    | U         | 2.6  |     | ug/m3 |   |          | 12/06/18 17:33 | 1       |

**Lab Sample ID: LCS 200-137867/4**

**Matrix: Air**

**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                        | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec Limits |
|--------------------------------|-------------|------------|---------------|---------|---|------|-------------|
|                                |             |            |               |         |   |      |             |
| Chlorodifluoromethane          | 10.0        | 10.4       |               | ppb v/v |   | 104  | 64 - 128    |
| 1,2-Dichlorotetrafluoroethane  | 10.0        | 11.1       |               | ppb v/v |   | 111  | 78 - 138    |
| Chloromethane                  | 10.0        | 10.1       |               | ppb v/v |   | 101  | 57 - 126    |
| n-Butane                       | 10.0        | 9.76       |               | ppb v/v |   | 98   | 56 - 130    |
| Vinyl chloride                 | 10.0        | 9.84       |               | ppb v/v |   | 98   | 62 - 125    |
| 1,3-Butadiene                  | 10.0        | 9.84       |               | ppb v/v |   | 98   | 59 - 125    |
| Bromomethane                   | 10.0        | 10.3       |               | ppb v/v |   | 103  | 68 - 128    |
| Chloroethane                   | 10.0        | 9.50       |               | ppb v/v |   | 95   | 65 - 125    |
| Bromoethene(Vinyl Bromide)     | 10.0        | 10.2       |               | ppb v/v |   | 103  | 67 - 127    |
| Trichlorofluoromethane         | 10.0        | 10.3       |               | ppb v/v |   | 103  | 67 - 127    |
| 1,1,2-Trichlorotrifluoroethane | 10.0        | 10.2       |               | ppb v/v |   | 102  | 68 - 128    |
| 1,1-Dichloroethene             | 10.0        | 9.99       |               | ppb v/v |   | 100  | 67 - 127    |
| Acetone                        | 10.0        | 9.93       |               | ppb v/v |   | 99   | 64 - 136    |
| Isopropyl alcohol              | 10.0        | 9.76       |               | ppb v/v |   | 98   | 55 - 124    |
| Carbon disulfide               | 10.0        | 10.4       |               | ppb v/v |   | 104  | 81 - 141    |
| 3-Chloropropene                | 10.0        | 9.68       |               | ppb v/v |   | 97   | 53 - 133    |
| Methylene Chloride             | 10.0        | 9.56       |               | ppb v/v |   | 96   | 62 - 122    |
| tert-Butyl alcohol             | 10.0        | 10.0       |               | ppb v/v |   | 100  | 64 - 124    |
| Methyl tert-butyl ether        | 10.0        | 9.79       |               | ppb v/v |   | 98   | 67 - 127    |
| trans-1,2-Dichloroethene       | 10.0        | 9.65       |               | ppb v/v |   | 97   | 72 - 132    |
| n-Hexane                       | 10.0        | 9.81       |               | ppb v/v |   | 98   | 71 - 131    |
| 1,1-Dichloroethane             | 10.0        | 9.39       |               | ppb v/v |   | 94   | 66 - 126    |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**

**Matrix: Air**

**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit    | D | %Rec | %Rec.<br>Limits |
|--|----------------|---------------|------------------|---------|---|------|-----------------|
| Methyl Ethyl Ketone<br>(2-Butanone)              | 10.0           | 8.94          |                  | ppb v/v |   | 89   | 62 - 122        |
| cis-1,2-Dichloroethene                           | 10.0           | 10.5          |                  | ppb v/v |   | 105  | 67 - 127        |
| Chloroform                                       | 10.0           | 9.97          |                  | ppb v/v |   | 100  | 69 - 129        |
| Tetrahydrofuran                                  | 10.0           | 8.68          |                  | ppb v/v |   | 87   | 61 - 136        |
| 1,1,1-Trichloroethane                            | 10.0           | 9.93          |                  | ppb v/v |   | 99   | 70 - 130        |
| Cyclohexane                                      | 10.0           | 9.61          |                  | ppb v/v |   | 96   | 69 - 129        |
| Carbon tetrachloride                             | 10.0           | 10.2          |                  | ppb v/v |   | 102  | 62 - 143        |
| 2,2,4-Trimethylpentane                           | 10.0           | 9.36          |                  | ppb v/v |   | 94   | 67 - 127        |
| Benzene  | 10.0           | 10.5          |                  | ppb v/v |   | 106  | 67 - 127        |
| 1,2-Dichloroethane                               | 10.0           | 9.57          |                  | ppb v/v |   | 96   | 67 - 132        |
| n-Heptane  | 10.0           | 9.34          |                  | ppb v/v |   | 93   | 62 - 130        |
| Trichloroethene                                  | 10.0           | 9.61          |                  | ppb v/v |   | 96   | 68 - 128        |
| Methyl methacrylate                              | 10.0           | 8.80          |                  | ppb v/v |   | 88   | 70 - 130        |
| 1,2-Dichloropropane                              | 10.0           | 9.02          |                  | ppb v/v |   | 90   | 67 - 127        |
| 1,4-Dioxane                                      | 10.0           | 10.0          |                  | ppb v/v |   | 100  | 66 - 132        |
| Bromodichloromethane                             | 10.0           | 10.5          |                  | ppb v/v |   | 105  | 69 - 129        |
| cis-1,3-Dichloropropene                          | 10.0           | 9.71          |                  | ppb v/v |   | 97   | 70 - 130        |
| 4-Methyl-2-pentanone (Methyl<br>isobutyl ketone) | 10.0           | 8.55          |                  | ppb v/v |   | 86   | 62 - 130        |
| Toluene  | 10.0           | 9.98          |                  | ppb v/v |   | 100  | 67 - 127        |
| trans-1,3-Dichloropropene                        | 10.0           | 9.36          |                  | ppb v/v |   | 94   | 69 - 129        |
| 1,1,2-Trichloroethane                            | 10.0           | 9.70          |                  | ppb v/v |   | 97   | 69 - 129        |
| Tetrachloroethene                                | 10.0           | 11.2          |                  | ppb v/v |   | 112  | 70 - 130        |
| Methyl Butyl Ketone<br>(2-Hexanone)              | 10.0           | 8.43          |                  | ppb v/v |   | 84   | 61 - 127        |
| Dibromochloromethane                             | 10.0           | 11.3          |                  | ppb v/v |   | 113  | 66 - 130        |
| 1,2-Dibromoethane                                | 10.0           | 10.1          |                  | ppb v/v |   | 101  | 70 - 130        |
| Chlorobenzene                                    | 10.0           | 10.1          |                  | ppb v/v |   | 101  | 68 - 128        |
| Ethylbenzene                                     | 10.0           | 9.57          |                  | ppb v/v |   | 96   | 68 - 128        |
| m,p-Xylene                                       | 20.0           | 18.9          |                  | ppb v/v |   | 95   | 68 - 128        |
| o-Xylene   | 10.0           | 9.67          |                  | ppb v/v |   | 97   | 67 - 127        |
| Styrene  | 10.0           | 9.81          |                  | ppb v/v |   | 98   | 68 - 128        |
| Bromoform  | 10.0           | 11.1          |                  | ppb v/v |   | 111  | 34 - 170        |
| Cumene   | 10.0           | 9.83          |                  | ppb v/v |   | 98   | 67 - 127        |
| 1,1,2,2-Tetrachloroethane                        | 10.0           | 9.09          |                  | ppb v/v |   | 91   | 69 - 129        |
| n-Propylbenzene                                  | 10.0           | 9.42          |                  | ppb v/v |   | 94   | 67 - 127        |
| 4-Ethyltoluene                                   | 10.0           | 9.62          |                  | ppb v/v |   | 96   | 69 - 129        |
| 1,3,5-Trimethylbenzene                           | 10.0           | 9.66          |                  | ppb v/v |   | 97   | 65 - 125        |
| 2-Chlorotoluene                                  | 10.0           | 9.59          |                  | ppb v/v |   | 96   | 67 - 127        |
| tert-Butylbenzene                                | 10.0           | 9.81          |                  | ppb v/v |   | 98   | 63 - 125        |
| 1,2,4-Trimethylbenzene                           | 10.0           | 9.69          |                  | ppb v/v |   | 97   | 65 - 125        |
| sec-Butylbenzene                                 | 10.0           | 9.86          |                  | ppb v/v |   | 99   | 66 - 126        |
| 4-Isopropyltoluene                               | 10.0           | 10.0          |                  | ppb v/v |   | 100  | 67 - 129        |
| 1,3-Dichlorobenzene                              | 10.0           | 10.0          |                  | ppb v/v |   | 100  | 67 - 127        |
| 1,4-Dichlorobenzene                              | 10.0           | 10.2          |                  | ppb v/v |   | 102  | 66 - 126        |
| Benzyl chloride                                  | 10.0           | 9.08          |                  | ppb v/v |   | 91   | 54 - 135        |
| n-Butylbenzene                                   | 10.0           | 9.67          |                  | ppb v/v |   | 97   | 67 - 127        |
| 1,2-Dichlorobenzene                              | 10.0           | 10.0          |                  | ppb v/v |   | 100  | 67 - 127        |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**  
**Matrix: Air**  
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit    | D | %Rec | %Rec.<br>Limits |
|--|----------------|---------------|------------------|---------|---|------|-----------------|
| 1,2,4-Trichlorobenzene                           | 10.0           | 7.90          |                  | ppb v/v |   | 79   | 59 - 126        |
| Hexachlorobutadiene                              | 10.0           | 8.55          |                  | ppb v/v |   | 86   | 62 - 130        |
| Naphthalene                                      | 10.0           | 7.30          |                  | ppb v/v |   | 73   | 50 - 121        |
| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit    | D | %Rec | %Rec.<br>Limits |
| Dichlorodifluoromethane                          | 49             | 56.9          |                  | ug/m3   |   | 115  | 68 - 128        |
| Chlorodifluoromethane                            | 35             | 36.7          |                  | ug/m3   |   | 104  | 64 - 128        |
| 1,2-Dichlorotetrafluoroethane                    | 70             | 77.9          |                  | ug/m3   |   | 111  | 78 - 138        |
| Chloromethane                                    | 21             | 20.8          |                  | ug/m3   |   | 101  | 57 - 126        |
| n-Butane   | 24             | 23.2          |                  | ug/m3   |   | 98   | 56 - 130        |
| Vinyl chloride                                   | 26             | 25.1          |                  | ug/m3   |   | 98   | 62 - 125        |
| 1,3-Butadiene                                    | 22             | 21.8          |                  | ug/m3   |   | 98   | 59 - 125        |
| Bromomethane                                     | 39             | 40.0          |                  | ug/m3   |   | 103  | 68 - 128        |
| Chloroethane                                     | 26             | 25.1          |                  | ug/m3   |   | 95   | 65 - 125        |
| Bromoethene(Vinyl Bromide)                       | 44             | 44.8          |                  | ug/m3   |   | 103  | 67 - 127        |
| Trichlorofluoromethane                           | 56             | 58.0          |                  | ug/m3   |   | 103  | 67 - 127        |
| 1,1,2-Trichlorotrifluoroethane                   | 77             | 78.2          |                  | ug/m3   |   | 102  | 68 - 128        |
| 1,1-Dichloroethene                               | 40             | 39.6          |                  | ug/m3   |   | 100  | 67 - 127        |
| Acetone  | 24             | 23.6          |                  | ug/m3   |   | 99   | 64 - 136        |
| Isopropyl alcohol                                | 25             | 24.0          |                  | ug/m3   |   | 98   | 55 - 124        |
| Carbon disulfide                                 | 31             | 32.5          |                  | ug/m3   |   | 104  | 81 - 141        |
| 3-Chloropropene                                  | 31             | 30.3          |                  | ug/m3   |   | 97   | 53 - 133        |
| Methylene Chloride                               | 35             | 33.2          |                  | ug/m3   |   | 96   | 62 - 122        |
| tert-Butyl alcohol                               | 30             | 30.4          |                  | ug/m3   |   | 100  | 64 - 124        |
| Methyl tert-butyl ether                          | 36             | 35.3          |                  | ug/m3   |   | 98   | 67 - 127        |
| trans-1,2-Dichloroethene                         | 40             | 38.3          |                  | ug/m3   |   | 97   | 72 - 132        |
| n-Hexane   | 35             | 34.6          |                  | ug/m3   |   | 98   | 71 - 131        |
| 1,1-Dichloroethane                               | 40             | 38.0          |                  | ug/m3   |   | 94   | 66 - 126        |
| Methyl Ethyl Ketone<br>(2-Butanone)              | 29             | 26.4          |                  | ug/m3   |   | 89   | 62 - 122        |
| cis-1,2-Dichloroethene                           | 40             | 41.8          |                  | ug/m3   |   | 105  | 67 - 127        |
| Chloroform                                       | 49             | 48.7          |                  | ug/m3   |   | 100  | 69 - 129        |
| Tetrahydrofuran                                  | 29             | 25.6          |                  | ug/m3   |   | 87   | 61 - 136        |
| 1,1,1-Trichloroethane                            | 55             | 54.2          |                  | ug/m3   |   | 99   | 70 - 130        |
| Cyclohexane                                      | 34             | 33.1          |                  | ug/m3   |   | 96   | 69 - 129        |
| Carbon tetrachloride                             | 63             | 64.4          |                  | ug/m3   |   | 102  | 62 - 143        |
| 2,2,4-Trimethylpentane                           | 47             | 43.7          |                  | ug/m3   |   | 94   | 67 - 127        |
| Benzene  | 32             | 33.7          |                  | ug/m3   |   | 106  | 67 - 127        |
| 1,2-Dichloroethane                               | 40             | 38.7          |                  | ug/m3   |   | 96   | 67 - 132        |
| n-Heptane  | 41             | 38.3          |                  | ug/m3   |   | 93   | 62 - 130        |
| Trichloroethene                                  | 54             | 51.6          |                  | ug/m3   |   | 96   | 68 - 128        |
| Methyl methacrylate                              | 41             | 36.1          |                  | ug/m3   |   | 88   | 70 - 130        |
| 1,2-Dichloropropane                              | 46             | 41.7          |                  | ug/m3   |   | 90   | 67 - 127        |
| 1,4-Dioxane                                      | 36             | 36.1          |                  | ug/m3   |   | 100  | 66 - 132        |
| Bromodichloromethane                             | 67             | 70.6          |                  | ug/m3   |   | 105  | 69 - 129        |
| cis-1,3-Dichloropropene                          | 45             | 44.1          |                  | ug/m3   |   | 97   | 70 - 130        |
| 4-Methyl-2-pentanone (Methyl<br>isobutyl ketone) | 41             | 35.0          |                  | ug/m3   |   | 86   | 62 - 130        |
| Toluene  | 38             | 37.6          |                  | ug/m3   |   | 100  | 67 - 127        |

TestAmerica Burlington



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137867/4**  
**Matrix: Air**  
**Analysis Batch: 137867**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| trans-1,3-Dichloropropene        | 45          | 42.5       |               | ug/m3 |   | 94   | 69 - 129     |
| 1,1,2-Trichloroethane            | 55          | 52.9       |               | ug/m3 |   | 97   | 69 - 129     |
| Tetrachloroethene                | 68          | 76.1       |               | ug/m3 |   | 112  | 70 - 130     |
| Methyl Butyl Ketone (2-Hexanone) | 41          | 34.6       |               | ug/m3 |   | 84   | 61 - 127     |
| Dibromochloromethane             | 85          | 96.5       |               | ug/m3 |   | 113  | 66 - 130     |
| 1,2-Dibromoethane                | 77          | 77.9       |               | ug/m3 |   | 101  | 70 - 130     |
| Chlorobenzene                    | 46          | 46.7       |               | ug/m3 |   | 101  | 68 - 128     |
| Ethylbenzene                     | 43          | 41.5       |               | ug/m3 |   | 96   | 68 - 128     |
| m,p-Xylene                       | 87          | 82.3       |               | ug/m3 |   | 95   | 68 - 128     |
| o-Xylene                         | 43          | 42.0       |               | ug/m3 |   | 97   | 67 - 127     |
| Styrene                          | 43          | 41.8       |               | ug/m3 |   | 98   | 68 - 128     |
| Bromoform                        | 100         | 115        |               | ug/m3 |   | 111  | 34 - 170     |
| Cumene                           | 49          | 48.3       |               | ug/m3 |   | 98   | 67 - 127     |
| 1,1,2,2-Tetrachloroethane        | 69          | 62.4       |               | ug/m3 |   | 91   | 69 - 129     |
| n-Propylbenzene                  | 49          | 46.3       |               | ug/m3 |   | 94   | 67 - 127     |
| 4-Ethyltoluene                   | 49          | 47.3       |               | ug/m3 |   | 96   | 69 - 129     |
| 1,3,5-Trimethylbenzene           | 49          | 47.5       |               | ug/m3 |   | 97   | 65 - 125     |
| 2-Chlorotoluene                  | 52          | 49.6       |               | ug/m3 |   | 96   | 67 - 127     |
| tert-Butylbenzene                | 55          | 53.8       |               | ug/m3 |   | 98   | 63 - 125     |
| 1,2,4-Trimethylbenzene           | 49          | 47.6       |               | ug/m3 |   | 97   | 65 - 125     |
| sec-Butylbenzene                 | 55          | 54.1       |               | ug/m3 |   | 99   | 66 - 126     |
| 4-Isopropyltoluene               | 55          | 55.0       |               | ug/m3 |   | 100  | 67 - 129     |
| 1,3-Dichlorobenzene              | 60          | 60.1       |               | ug/m3 |   | 100  | 67 - 127     |
| 1,4-Dichlorobenzene              | 60          | 61.6       |               | ug/m3 |   | 102  | 66 - 126     |
| Benzyl chloride                  | 52          | 47.0       |               | ug/m3 |   | 91   | 54 - 135     |
| n-Butylbenzene                   | 55          | 53.1       |               | ug/m3 |   | 97   | 67 - 127     |
| 1,2-Dichlorobenzene              | 60          | 60.3       |               | ug/m3 |   | 100  | 67 - 127     |
| 1,2,4-Trichlorobenzene           | 74          | 58.6       |               | ug/m3 |   | 79   | 59 - 126     |
| Hexachlorobutadiene              | 110         | 91.2       |               | ug/m3 |   | 86   | 62 - 130     |
| Naphthalene                      | 52          | 38.3       |               | ug/m3 |   | 73   | 50 - 121     |

**Lab Sample ID: MB 200-137900/6**  
**Matrix: Air**  
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                        | MB Result | MB Qualifier | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------|-----------|--------------|-------|-----|---------|---|----------|----------------|---------|
| Dichlorodifluoromethane        | 0.50      | U            | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Chlorodifluoromethane          | 0.50      | U            | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichlorotetrafluoroethane  | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Chloromethane                  | 0.50      | U            | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| n-Butane                       | 0.50      | U            | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Vinyl chloride                 | 0.078     | U            | 0.078 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,3-Butadiene                  | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Bromomethane                   | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Chloroethane                   | 0.50      | U            | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Bromoethene(Vinyl Bromide)     | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Trichlorofluoromethane         | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,1,2-Trichlorotrifluoroethane | 0.20      | U            | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**

**Matrix: Air**

**Analysis Batch: 137900**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                                       | MB MB  |           | RL    | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|-------|-----|---------|---|----------|----------------|---------|
|   | Result | Qualifier |       |     |         |   |          |                |         |
| 1,1-Dichloroethene                            | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Acetone                                       | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Isopropyl alcohol                             | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Carbon disulfide                              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 3-Chloropropene                               | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Methylene Chloride                            | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| tert-Butyl alcohol                            | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Methyl tert-butyl ether                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| trans-1,2-Dichloroethene                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| n-Hexane                                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,1-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Methyl Ethyl Ketone (2-Butanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| cis-1,2-Dichloroethene                        | 0.050  | U         | 0.050 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Chloroform                                    | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Tetrahydrofuran                               | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,1,1-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Cyclohexane                                   | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Carbon tetrachloride                          | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 2,2,4-Trimethylpentane                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Benzene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichloroethane                            | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| n-Heptane                                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Trichloroethene                               | 0.035  | U         | 0.035 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Methyl methacrylate                           | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichloropropane                           | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,4-Dioxane                                   | 5.0    | U         | 5.0   |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Bromodichloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| cis-1,3-Dichloropropene                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Toluene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| trans-1,3-Dichloropropene                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,1,2-Trichloroethane                         | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Tetrachloroethene                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Dibromochloromethane                          | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dibromoethane                             | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Chlorobenzene                                 | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Ethylbenzene                                  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| m,p-Xylene                                    | 0.50   | U         | 0.50  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| o-Xylene                                      | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Styrene                                       | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Bromoform                                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Cumene  | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,1,2,2-Tetrachloroethane                     | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| n-Propylbenzene                               | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 4-Ethyltoluene                                | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.20   | U         | 0.20  |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**  
**Matrix: Air**  
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB     | MB        | RL   | MDL | Unit    | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|-----|---------|---|----------|----------------|---------|
|                        | Result | Qualifier |      |     |         |   |          |                |         |
| 2-Chlorotoluene        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| tert-Butylbenzene      | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2,4-Trimethylbenzene | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| sec-Butylbenzene       | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 4-Isopropyltoluene     | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,3-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,4-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Benzyl chloride        | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| n-Butylbenzene         | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichlorobenzene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| 1,2,4-Trichlorobenzene | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Hexachlorobutadiene    | 0.20   | U         | 0.20 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |
| Naphthalene            | 0.50   | U         | 0.50 |     | ppb v/v |   |          | 12/07/18 15:52 | 1       |

| Analyte                          | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|                                  | Result | Qualifier |      |     |       |   |          |                |         |
| Dichlorodifluoromethane          | 2.5    | U         | 2.5  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Chlorodifluoromethane            | 1.8    | U         | 1.8  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichlorotetrafluoroethane    | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Chloromethane                    | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| n-Butane                         | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Vinyl chloride                   | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,3-Butadiene                    | 0.44   | U         | 0.44 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Bromomethane                     | 0.78   | U         | 0.78 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Chloroethane                     | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Bromoethene(Vinyl Bromide)       | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Trichlorofluoromethane           | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1,2-Trichlorotrifluoroethane   | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1-Dichloroethene               | 0.14   | U         | 0.14 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Acetone                          | 12     | U         | 12   |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Isopropyl alcohol                | 12     | U         | 12   |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Carbon disulfide                 | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 3-Chloropropene                  | 1.6    | U         | 1.6  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Methylene Chloride               | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| tert-Butyl alcohol               | 15     | U         | 15   |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Methyl tert-butyl ether          | 0.72   | U         | 0.72 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| trans-1,2-Dichloroethene         | 0.79   | U         | 0.79 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| n-Hexane                         | 0.70   | U         | 0.70 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1-Dichloroethane               | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Methyl Ethyl Ketone (2-Butanone) | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| cis-1,2-Dichloroethene           | 0.20   | U         | 0.20 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Chloroform                       | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Tetrahydrofuran                  | 15     | U         | 15   |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1,1-Trichloroethane            | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Cyclohexane                      | 0.69   | U         | 0.69 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Carbon tetrachloride             | 0.22   | U         | 0.22 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 2,2,4-Trimethylpentane           | 0.93   | U         | 0.93 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Benzene                          | 0.64   | U         | 0.64 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichloroethane               | 0.81   | U         | 0.81 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-137900/6**  
**Matrix: Air**  
**Analysis Batch: 137900**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                                       | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|   | Result | Qualifier |      |     |       |   |          |                |         |
| n-Heptane                                     | 0.82   | U         | 0.82 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Trichloroethene                               | 0.19   | U         | 0.19 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Methyl methacrylate                           | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichloropropane                           | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,4-Dioxane                                   | 18     | U         | 18   |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Bromodichloromethane                          | 1.3    | U         | 1.3  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| cis-1,3-Dichloropropene                       | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Toluene                                       | 0.75   | U         | 0.75 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| trans-1,3-Dichloropropene                     | 0.91   | U         | 0.91 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1,2-Trichloroethane                         | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Tetrachloroethene                             | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Methyl Butyl Ketone (2-Hexanone)              | 2.0    | U         | 2.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Dibromochloromethane                          | 1.7    | U         | 1.7  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dibromoethane                             | 1.5    | U         | 1.5  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Chlorobenzene                                 | 0.92   | U         | 0.92 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Ethylbenzene                                  | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| m,p-Xylene                                    | 2.2    | U         | 2.2  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| o-Xylene                                      | 0.87   | U         | 0.87 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Styrene                                       | 0.85   | U         | 0.85 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Bromoform                                     | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Cumene  | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,1,1,2-Tetrachloroethane                     | 1.4    | U         | 1.4  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| n-Propylbenzene                               | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 4-Ethyltoluene                                | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,3,5-Trimethylbenzene                        | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 2-Chlorotoluene                               | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| tert-Butylbenzene                             | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2,4-Trimethylbenzene                        | 0.98   | U         | 0.98 |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| sec-Butylbenzene                              | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 4-Isopropyltoluene                            | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,3-Dichlorobenzene                           | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,4-Dichlorobenzene                           | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Benzyl chloride                               | 1.0    | U         | 1.0  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| n-Butylbenzene                                | 1.1    | U         | 1.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2-Dichlorobenzene                           | 1.2    | U         | 1.2  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| 1,2,4-Trichlorobenzene                        | 3.7    | U         | 3.7  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Hexachlorobutadiene                           | 2.1    | U         | 2.1  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |
| Naphthalene                                   | 2.6    | U         | 2.6  |     | ug/m3 |   |          | 12/07/18 15:52 | 1       |

**Lab Sample ID: LCS 200-137900/5**  
**Matrix: Air**  
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
|-------------------------------|-------------|------------|---------------|---------|---|------|--------------|
|                               |             |            |               |         |   |      |              |
| Chlorodifluoromethane         | 10.0        | 10.9       |               | ppb v/v |   | 109  | 64 - 128     |
| 1,2-Dichlorotetrafluoroethane | 10.0        | 10.6       |               | ppb v/v |   | 106  | 78 - 138     |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**  
**Matrix: Air**  
**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                                       | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
|---|-------------|------------|---------------|---------|---|------|--------------|
| Chloromethane                                 | 10.0        | 10.7       |               | ppb v/v |   | 107  | 57 - 126     |
| n-Butane                                      | 10.0        | 10.6       |               | ppb v/v |   | 107  | 56 - 130     |
| Vinyl chloride                                | 10.0        | 10.5       |               | ppb v/v |   | 105  | 62 - 125     |
| 1,3-Butadiene                                 | 10.0        | 10.6       |               | ppb v/v |   | 106  | 59 - 125     |
| Bromomethane                                  | 10.0        | 10.8       |               | ppb v/v |   | 108  | 68 - 128     |
| Chloroethane                                  | 10.0        | 10.9       |               | ppb v/v |   | 109  | 65 - 125     |
| Bromoethene(Vinyl Bromide)                    | 10.0        | 10.8       |               | ppb v/v |   | 108  | 67 - 127     |
| Trichlorofluoromethane                        | 10.0        | 10.5       |               | ppb v/v |   | 105  | 67 - 127     |
| 1,1,2-Trichlorotrifluoroethane                | 10.0        | 10.5       |               | ppb v/v |   | 105  | 68 - 128     |
| 1,1-Dichloroethene                            | 10.0        | 10.5       |               | ppb v/v |   | 105  | 67 - 127     |
| Acetone                                       | 10.0        | 10.7       |               | ppb v/v |   | 107  | 64 - 136     |
| Isopropyl alcohol                             | 10.0        | 10.1       |               | ppb v/v |   | 101  | 55 - 124     |
| Carbon disulfide                              | 10.0        | 10.4       |               | ppb v/v |   | 104  | 81 - 141     |
| 3-Chloropropene                               | 10.0        | 10.4       |               | ppb v/v |   | 104  | 53 - 133     |
| Methylene Chloride                            | 10.0        | 10.5       |               | ppb v/v |   | 105  | 62 - 122     |
| tert-Butyl alcohol                            | 10.0        | 10.8       |               | ppb v/v |   | 108  | 64 - 124     |
| Methyl tert-butyl ether                       | 10.0        | 10.4       |               | ppb v/v |   | 104  | 67 - 127     |
| trans-1,2-Dichloroethene                      | 10.0        | 11.3       |               | ppb v/v |   | 113  | 72 - 132     |
| n-Hexane                                      | 10.0        | 10.6       |               | ppb v/v |   | 106  | 71 - 131     |
| 1,1-Dichloroethane                            | 10.0        | 10.3       |               | ppb v/v |   | 103  | 66 - 126     |
| Methyl Ethyl Ketone (2-Butanone)              | 10.0        | 10.3       |               | ppb v/v |   | 103  | 62 - 122     |
| cis-1,2-Dichloroethene                        | 10.0        | 10.2       |               | ppb v/v |   | 102  | 67 - 127     |
| Chloroform                                    | 10.0        | 12.6       |               | ppb v/v |   | 126  | 69 - 129     |
| Tetrahydrofuran                               | 10.0        | 8.05       |               | ppb v/v |   | 80   | 61 - 136     |
| 1,1,1-Trichloroethane                         | 10.0        | 9.35       |               | ppb v/v |   | 94   | 70 - 130     |
| Cyclohexane                                   | 10.0        | 10.1       |               | ppb v/v |   | 101  | 69 - 129     |
| Carbon tetrachloride                          | 10.0        | 9.11       |               | ppb v/v |   | 91   | 62 - 143     |
| 2,2,4-Trimethylpentane                        | 10.0        | 10.8       |               | ppb v/v |   | 108  | 67 - 127     |
| Benzene                                       | 10.0        | 10.2       |               | ppb v/v |   | 102  | 67 - 127     |
| 1,2-Dichloroethane                            | 10.0        | 10.0       |               | ppb v/v |   | 100  | 67 - 132     |
| n-Heptane                                     | 10.0        | 11.3       |               | ppb v/v |   | 113  | 62 - 130     |
| Trichloroethene                               | 10.0        | 10.8       |               | ppb v/v |   | 108  | 68 - 128     |
| Methyl methacrylate                           | 10.0        | 11.3       |               | ppb v/v |   | 113  | 70 - 130     |
| 1,2-Dichloropropane                           | 10.0        | 11.9       |               | ppb v/v |   | 119  | 67 - 127     |
| 1,4-Dioxane                                   | 10.0        | 10.6       |               | ppb v/v |   | 106  | 66 - 132     |
| Bromodichloromethane                          | 10.0        | 10.5       |               | ppb v/v |   | 105  | 69 - 129     |
| cis-1,3-Dichloropropene                       | 10.0        | 10.6       |               | ppb v/v |   | 106  | 70 - 130     |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0        | 11.4       |               | ppb v/v |   | 114  | 62 - 130     |
| Toluene                                       | 10.0        | 10.3       |               | ppb v/v |   | 103  | 67 - 127     |
| trans-1,3-Dichloropropene                     | 10.0        | 10.1       |               | ppb v/v |   | 101  | 69 - 129     |
| 1,1,2-Trichloroethane                         | 10.0        | 10.6       |               | ppb v/v |   | 106  | 69 - 129     |
| Tetrachloroethene                             | 10.0        | 9.47       |               | ppb v/v |   | 95   | 70 - 130     |
| Methyl Butyl Ketone (2-Hexanone)              | 10.0        | 11.2       |               | ppb v/v |   | 112  | 61 - 127     |
| Dibromochloromethane                          | 10.0        | 10.1       |               | ppb v/v |   | 101  | 66 - 130     |
| 1,2-Dibromoethane                             | 10.0        | 10.4       |               | ppb v/v |   | 104  | 70 - 130     |
| Chlorobenzene                                 | 10.0        | 10.1       |               | ppb v/v |   | 102  | 68 - 128     |

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**

**Matrix: Air**

**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                        | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
|--------------------------------|-------------|------------|---------------|---------|---|------|--------------|
| Ethylbenzene                   | 10.0        | 10.3       |               | ppb v/v |   | 103  | 68 - 128     |
| m,p-Xylene                     | 20.0        | 20.5       |               | ppb v/v |   | 102  | 68 - 128     |
| o-Xylene                       | 10.0        | 10.3       |               | ppb v/v |   | 103  | 67 - 127     |
| Styrene                        | 10.0        | 10.9       |               | ppb v/v |   | 109  | 68 - 128     |
| Bromoform                      | 10.0        | 9.87       |               | ppb v/v |   | 99   | 34 - 170     |
| Cumene                         | 10.0        | 10.3       |               | ppb v/v |   | 103  | 67 - 127     |
| 1,1,2,2-Tetrachloroethane      | 10.0        | 10.9       |               | ppb v/v |   | 109  | 69 - 129     |
| n-Propylbenzene                | 10.0        | 10.5       |               | ppb v/v |   | 105  | 67 - 127     |
| 4-Ethyltoluene                 | 10.0        | 10.3       |               | ppb v/v |   | 103  | 69 - 129     |
| 1,3,5-Trimethylbenzene         | 10.0        | 10.1       |               | ppb v/v |   | 102  | 65 - 125     |
| 2-Chlorotoluene                | 10.0        | 10.2       |               | ppb v/v |   | 102  | 67 - 127     |
| tert-Butylbenzene              | 10.0        | 9.98       |               | ppb v/v |   | 100  | 63 - 125     |
| 1,2,4-Trimethylbenzene         | 10.0        | 10.2       |               | ppb v/v |   | 102  | 65 - 125     |
| sec-Butylbenzene               | 10.0        | 10.4       |               | ppb v/v |   | 104  | 66 - 126     |
| 4-Isopropyltoluene             | 10.0        | 10.2       |               | ppb v/v |   | 102  | 67 - 129     |
| 1,3-Dichlorobenzene            | 10.0        | 10.1       |               | ppb v/v |   | 101  | 67 - 127     |
| 1,4-Dichlorobenzene            | 10.0        | 10.1       |               | ppb v/v |   | 101  | 66 - 126     |
| Benzyl chloride                | 10.0        | 9.67       |               | ppb v/v |   | 97   | 54 - 135     |
| n-Butylbenzene                 | 10.0        | 10.8       |               | ppb v/v |   | 108  | 67 - 127     |
| 1,2-Dichlorobenzene            | 10.0        | 10.1       |               | ppb v/v |   | 101  | 67 - 127     |
| 1,2,4-Trichlorobenzene         | 10.0        | 8.97       |               | ppb v/v |   | 90   | 59 - 126     |
| Hexachlorobutadiene            | 10.0        | 8.88       |               | ppb v/v |   | 89   | 62 - 130     |
| Naphthalene                    | 10.0        | 9.25       |               | ppb v/v |   | 92   | 50 - 121     |
| Analyte                        | Spike Added | LCS Result | LCS Qualifier | Unit    | D | %Rec | %Rec. Limits |
| Dichlorodifluoromethane        | 49          | 54.2       |               | ug/m3   |   | 110  | 68 - 128     |
| Chlorodifluoromethane          | 35          | 38.7       |               | ug/m3   |   | 109  | 64 - 128     |
| 1,2-Dichlorotetrafluoroethane  | 70          | 74.4       |               | ug/m3   |   | 106  | 78 - 138     |
| Chloromethane                  | 21          | 22.1       |               | ug/m3   |   | 107  | 57 - 126     |
| n-Butane                       | 24          | 25.3       |               | ug/m3   |   | 107  | 56 - 130     |
| Vinyl chloride                 | 26          | 26.9       |               | ug/m3   |   | 105  | 62 - 125     |
| 1,3-Butadiene                  | 22          | 23.5       |               | ug/m3   |   | 106  | 59 - 125     |
| Bromomethane                   | 39          | 42.0       |               | ug/m3   |   | 108  | 68 - 128     |
| Chloroethane                   | 26          | 28.9       |               | ug/m3   |   | 109  | 65 - 125     |
| Bromoethene(Vinyl Bromide)     | 44          | 47.4       |               | ug/m3   |   | 108  | 67 - 127     |
| Trichlorofluoromethane         | 56          | 58.9       |               | ug/m3   |   | 105  | 67 - 127     |
| 1,1,2-Trichlorotrifluoroethane | 77          | 80.4       |               | ug/m3   |   | 105  | 68 - 128     |
| 1,1-Dichloroethene             | 40          | 41.7       |               | ug/m3   |   | 105  | 67 - 127     |
| Acetone                        | 24          | 25.5       |               | ug/m3   |   | 107  | 64 - 136     |
| Isopropyl alcohol              | 25          | 24.8       |               | ug/m3   |   | 101  | 55 - 124     |
| Carbon disulfide               | 31          | 32.4       |               | ug/m3   |   | 104  | 81 - 141     |
| 3-Chloropropene                | 31          | 32.5       |               | ug/m3   |   | 104  | 53 - 133     |
| Methylene Chloride             | 35          | 36.5       |               | ug/m3   |   | 105  | 62 - 122     |
| tert-Butyl alcohol             | 30          | 32.7       |               | ug/m3   |   | 108  | 64 - 124     |
| Methyl tert-butyl ether        | 36          | 37.6       |               | ug/m3   |   | 104  | 67 - 127     |
| trans-1,2-Dichloroethene       | 40          | 44.7       |               | ug/m3   |   | 113  | 72 - 132     |
| n-Hexane                       | 35          | 37.3       |               | ug/m3   |   | 106  | 71 - 131     |
| 1,1-Dichloroethane             | 40          | 41.9       |               | ug/m3   |   | 103  | 66 - 126     |



# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-137900/5**

**Matrix: Air**

**Analysis Batch: 137900**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--|----------------|---------------|------------------|-------|---|------|-----------------|
| Methyl Ethyl Ketone<br>(2-Butanone)              | 29             | 30.3          |                  | ug/m3 |   | 103  | 62 - 122        |
| cis-1,2-Dichloroethene                           | 40             | 40.4          |                  | ug/m3 |   | 102  | 67 - 127        |
| Chloroform                                       | 49             | 61.3          |                  | ug/m3 |   | 126  | 69 - 129        |
| Tetrahydrofuran                                  | 29             | 23.7          |                  | ug/m3 |   | 80   | 61 - 136        |
| 1,1,1-Trichloroethane                            | 55             | 51.0          |                  | ug/m3 |   | 94   | 70 - 130        |
| Cyclohexane                                      | 34             | 34.7          |                  | ug/m3 |   | 101  | 69 - 129        |
| Carbon tetrachloride                             | 63             | 57.3          |                  | ug/m3 |   | 91   | 62 - 143        |
| 2,2,4-Trimethylpentane                           | 47             | 50.6          |                  | ug/m3 |   | 108  | 67 - 127        |
| Benzene  | 32             | 32.5          |                  | ug/m3 |   | 102  | 67 - 127        |
| 1,2-Dichloroethane                               | 40             | 40.5          |                  | ug/m3 |   | 100  | 67 - 132        |
| n-Heptane  | 41             | 46.1          |                  | ug/m3 |   | 113  | 62 - 130        |
| Trichloroethene                                  | 54             | 58.1          |                  | ug/m3 |   | 108  | 68 - 128        |
| Methyl methacrylate                              | 41             | 46.2          |                  | ug/m3 |   | 113  | 70 - 130        |
| 1,2-Dichloropropane                              | 46             | 54.8          |                  | ug/m3 |   | 119  | 67 - 127        |
| 1,4-Dioxane                                      | 36             | 38.3          |                  | ug/m3 |   | 106  | 66 - 132        |
| Bromodichloromethane                             | 67             | 70.2          |                  | ug/m3 |   | 105  | 69 - 129        |
| cis-1,3-Dichloropropene                          | 45             | 48.3          |                  | ug/m3 |   | 106  | 70 - 130        |
| 4-Methyl-2-pentanone (Methyl<br>isobutyl ketone) | 41             | 46.9          |                  | ug/m3 |   | 114  | 62 - 130        |
| Toluene  | 38             | 38.7          |                  | ug/m3 |   | 103  | 67 - 127        |
| trans-1,3-Dichloropropene                        | 45             | 46.0          |                  | ug/m3 |   | 101  | 69 - 129        |
| 1,1,2-Trichloroethane                            | 55             | 57.7          |                  | ug/m3 |   | 106  | 69 - 129        |
| Tetrachloroethene                                | 68             | 64.3          |                  | ug/m3 |   | 95   | 70 - 130        |
| Methyl Butyl Ketone<br>(2-Hexanone)              | 41             | 45.8          |                  | ug/m3 |   | 112  | 61 - 127        |
| Dibromochloromethane                             | 85             | 85.8          |                  | ug/m3 |   | 101  | 66 - 130        |
| 1,2-Dibromoethane                                | 77             | 79.6          |                  | ug/m3 |   | 104  | 70 - 130        |
| Chlorobenzene                                    | 46             | 46.7          |                  | ug/m3 |   | 102  | 68 - 128        |
| Ethylbenzene                                     | 43             | 44.7          |                  | ug/m3 |   | 103  | 68 - 128        |
| m,p-Xylene                                       | 87             | 88.8          |                  | ug/m3 |   | 102  | 68 - 128        |
| o-Xylene   | 43             | 44.6          |                  | ug/m3 |   | 103  | 67 - 127        |
| Styrene  | 43             | 46.4          |                  | ug/m3 |   | 109  | 68 - 128        |
| Bromoform  | 100            | 102           |                  | ug/m3 |   | 99   | 34 - 170        |
| Cumene   | 49             | 50.8          |                  | ug/m3 |   | 103  | 67 - 127        |
| 1,1,2,2-Tetrachloroethane                        | 69             | 74.8          |                  | ug/m3 |   | 109  | 69 - 129        |
| n-Propylbenzene                                  | 49             | 51.5          |                  | ug/m3 |   | 105  | 67 - 127        |
| 4-Ethyltoluene                                   | 49             | 50.4          |                  | ug/m3 |   | 103  | 69 - 129        |
| 1,3,5-Trimethylbenzene                           | 49             | 49.9          |                  | ug/m3 |   | 102  | 65 - 125        |
| 2-Chlorotoluene                                  | 52             | 52.8          |                  | ug/m3 |   | 102  | 67 - 127        |
| tert-Butylbenzene                                | 55             | 54.8          |                  | ug/m3 |   | 100  | 63 - 125        |
| 1,2,4-Trimethylbenzene                           | 49             | 49.9          |                  | ug/m3 |   | 102  | 65 - 125        |
| sec-Butylbenzene                                 | 55             | 57.2          |                  | ug/m3 |   | 104  | 66 - 126        |
| 4-Isopropyltoluene                               | 55             | 56.0          |                  | ug/m3 |   | 102  | 67 - 129        |
| 1,3-Dichlorobenzene                              | 60             | 60.5          |                  | ug/m3 |   | 101  | 67 - 127        |
| 1,4-Dichlorobenzene                              | 60             | 60.9          |                  | ug/m3 |   | 101  | 66 - 126        |
| Benzyl chloride                                  | 52             | 50.0          |                  | ug/m3 |   | 97   | 54 - 135        |
| n-Butylbenzene                                   | 55             | 59.4          |                  | ug/m3 |   | 108  | 67 - 127        |
| 1,2-Dichlorobenzene                              | 60             | 60.5          |                  | ug/m3 |   | 101  | 67 - 127        |

TestAmerica Burlington

# QC Sample Results

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-137900/5

Matrix: Air

Analysis Batch: 137900

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| 1,2,4-Trichlorobenzene | 74             | 66.6          |                  | ug/m3 |   | 90   | 59 - 126        |
| Hexachlorobutadiene    | 110            | 94.7          |                  | ug/m3 |   | 89   | 62 - 130        |
| Naphthalene            | 52             | 48.5          |                  | ug/m3 |   | 92   | 50 - 121        |

# QC Association Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Air - GC/MS VOA

### Analysis Batch: 137819

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 200-46353-1      | AA-1_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-2      | IA-1_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-3      | IA-2_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-4      | IA-3_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-5      | IA-4_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-6      | IA-5_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-7      | MP-1_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-8      | MP-2_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-9      | MP-3_20181120      | Total/NA  | Air    | TO-15  |            |
| MB 200-137819/5  | Method Blank       | Total/NA  | Air    | TO-15  |            |
| LCS 200-137819/6 | Lab Control Sample | Total/NA  | Air    | TO-15  |            |

### Analysis Batch: 137867

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 200-46353-6 - DL | IA-5_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-10     | MP-4_20181120      | Total/NA  | Air    | TO-15  |            |
| 200-46353-11     | MP-5_20181119      | Total/NA  | Air    | TO-15  |            |
| MB 200-137867/5  | Method Blank       | Total/NA  | Air    | TO-15  |            |
| LCS 200-137867/4 | Lab Control Sample | Total/NA  | Air    | TO-15  |            |

### Analysis Batch: 137900

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 200-46353-2 - DL | IA-1_20181120      | Total/NA  | Air    | TO-15  |            |
| MB 200-137900/6  | Method Blank       | Total/NA  | Air    | TO-15  |            |
| LCS 200-137900/5 | Lab Control Sample | Total/NA  | Air    | TO-15  |            |



# Lab Chronicle

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: AA-1\_20181120**  
**Date Collected: 11/20/18 16:27**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-1**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 03:30       | A1B     | TAL BUR |

**Client Sample ID: IA-1\_20181120**  
**Date Collected: 11/20/18 13:44**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-2**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        | DL  | 10              | 137900       | 12/07/18 16:45       | VTP     | TAL BUR |
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 04:21       | A1B     | TAL BUR |

**Client Sample ID: IA-2\_20181120**  
**Date Collected: 11/20/18 12:59**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-3**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 05:11       | A1B     | TAL BUR |

**Client Sample ID: IA-3\_20181120**  
**Date Collected: 11/20/18 13:00**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-4**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 06:01       | A1B     | TAL BUR |

**Client Sample ID: IA-4\_20181120**  
**Date Collected: 11/20/18 13:01**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-5**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 06:51       | A1B     | TAL BUR |

**Client Sample ID: IA-5\_20181120**  
**Date Collected: 11/20/18 12:58**  
**Date Received: 11/23/18 13:10**

**Lab Sample ID: 200-46353-6**  
**Matrix: Air**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 07:42       | A1B     | TAL BUR |
| Total/NA  | Analysis   | TO-15        | DL  | 4               | 137867       | 12/06/18 22:33       | K1P     | TAL BUR |

# Lab Chronicle

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

**Client Sample ID: MP-1\_20181120**  
Date Collected: 11/20/18 15:15  
Date Received: 11/23/18 13:10

**Lab Sample ID: 200-46353-7**  
Matrix: Air

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 50              | 137819       | 12/06/18 08:32       | A1B     | TAL BUR |

**Client Sample ID: MP-2\_20181120**  
Date Collected: 11/20/18 12:59  
Date Received: 11/23/18 13:10

**Lab Sample ID: 200-46353-8**  
Matrix: Air

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 20              | 137819       | 12/06/18 09:23       | A1B     | TAL BUR |

**Client Sample ID: MP-3\_20181120**  
Date Collected: 11/20/18 13:00  
Date Received: 11/23/18 13:10

**Lab Sample ID: 200-46353-9**  
Matrix: Air

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137819       | 12/06/18 10:13       | A1B     | TAL BUR |

**Client Sample ID: MP-4\_20181120**  
Date Collected: 11/20/18 07:45  
Date Received: 11/23/18 13:10

**Lab Sample ID: 200-46353-10**  
Matrix: Air

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137867       | 12/06/18 23:23       | K1P     | TAL BUR |

**Client Sample ID: MP-5\_20181119**  
Date Collected: 11/19/18 14:50  
Date Received: 11/23/18 13:10

**Lab Sample ID: 200-46353-11**  
Matrix: Air

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | TO-15        |     | 1               | 137867       | 12/07/18 00:13       | K1P     | TAL BUR |

#### Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

## Laboratory: TestAmerica Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority  | Program | EPA Region | Identification Number | Expiration Date |
|------------|---------|------------|-----------------------|-----------------|
| New Jersey | NELAP   | 2          | VT972                 | 06-30-19        |

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

| Analysis Method | Prep Method | Matrix | Analyte               |
|-----------------|-------------|--------|-----------------------|
| TO-15           |             | Air    | 4-Isopropyltoluene    |
| TO-15           |             | Air    | Chlorodifluoromethane |
| TO-15           |             | Air    | Cumene                |
| TO-15           |             | Air    | n-Butane              |
| TO-15           |             | Air    | n-Butylbenzene        |
| TO-15           |             | Air    | n-Propylbenzene       |
| TO-15           |             | Air    | sec-Butylbenzene      |
| TO-15           |             | Air    | tert-Butylbenzene     |



# Method Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

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| <b>Method</b> | <b>Method Description</b>                 | <b>Protocol</b> | <b>Laboratory</b> |
|---------------|---|-----------------|-------------------|
| TO-15         | Volatile Organic Compounds in Ambient Air | EPA             | TAL BUR           |

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Sample Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 200-46353-1   | AA-1_20181120    | Air    | 11/20/18 16:27 | 11/23/18 13:10 |
| 200-46353-2   | IA-1_20181120    | Air    | 11/20/18 13:44 | 11/23/18 13:10 |
| 200-46353-3   | IA-2_20181120    | Air    | 11/20/18 12:59 | 11/23/18 13:10 |
| 200-46353-4   | IA-3_20181120    | Air    | 11/20/18 13:00 | 11/23/18 13:10 |
| 200-46353-5   | IA-4_20181120    | Air    | 11/20/18 13:01 | 11/23/18 13:10 |
| 200-46353-6   | IA-5_20181120    | Air    | 11/20/18 12:58 | 11/23/18 13:10 |
| 200-46353-7   | MP-1_20181120    | Air    | 11/20/18 15:15 | 11/23/18 13:10 |
| 200-46353-8   | MP-2_20181120    | Air    | 11/20/18 12:59 | 11/23/18 13:10 |
| 200-46353-9   | MP-3_20181120    | Air    | 11/20/18 13:00 | 11/23/18 13:10 |
| 200-46353-10  | MP-4_20181120    | Air    | 11/20/18 07:45 | 11/23/18 13:10 |
| 200-46353-11  | MP-5_20181119    | Air    | 11/19/18 14:50 | 11/23/18 13:10 |

# Quantitation Limit Exceptions Summary

Client: AKRF Inc  
Project/Site: Elton Crossing

TestAmerica Job ID: 200-46353-1  
SDG: 200-46353-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| <b>Method</b> | <b>Matrix</b> | <b>Analyte</b>         | <b>Units</b> | <b>Client RL</b> | <b>Lab PQL</b> |
|---------------|---------------|------------------------|--------------|------------------|----------------|
| TO-15         | Air           | 1,1-Dichloroethene     | ppb v/v      | 0.035            | 0.20           |
| TO-15         | Air           | Carbon tetrachloride   | ppb v/v      | 0.035            | 0.20           |
| TO-15         | Air           | cis-1,2-Dichloroethene | ppb v/v      | 0.050            | 0.20           |
| TO-15         | Air           | Trichloroethene        | ppb v/v      | 0.035            | 0.20           |
| TO-15         | Air           | Vinyl chloride         | ppb v/v      | 0.078            | 0.20           |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Analysis Batch Number: 137783

Lab Sample ID: IC 200-137783/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/04/18 20:51 Lab File ID: 33516-04.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME          | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|------------------------|----------------|------------------------|-----------|----------------|
|                        |                | REASON                 | ANALYST   | DATE           |
| Trichlorofluoromethane | 5.12           | Incomplete Integration | guazzonig | 12/05/18 10:19 |
| cis-1,2-Dichloroethene | 9.77           | Incomplete Integration | guazzonig | 12/05/18 10:19 |
| Chloroform             | 10.36          | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| Cyclohexane            | 10.60          | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| 2,2,4-Trimethylpentane | 11.35          | Incomplete Integration | guazzonig | 12/05/18 10:20 |
| Benzene                | 11.35          | Incomplete Integration | guazzonig | 12/05/18 10:20 |

Lab Sample ID: IC 200-137783/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/04/18 21:44 Lab File ID: 33516-05.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---------------------------|----------------|------------------------|-----------|----------------|
|                           |                | REASON                 | ANALYST   | DATE           |
| Acrylonitrile             | 7.91           | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| Cyclohexane               | 10.63          | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| Benzene                   | 11.34          | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| 1,4-Dioxane               | 13.47          | Incomplete Integration | guazzonig | 12/05/18 10:32 |
| trans-1,3-Dichloropropene | 15.95          | Incomplete Integration | guazzonig | 12/05/18 10:33 |

Lab Sample ID: ICIS 200-137783/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/05/18 00:25 Lab File ID: 33516-08.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION |           |                |
|---------------|----------------|--------------------|-----------|----------------|
|               |                | REASON             | ANALYST   | DATE           |
| Acetonitrile  | 7.14           | Wrong peak         | guazzonig | 12/05/18 10:15 |



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Analysis Batch Number: 137900

Lab Sample ID: MB 200-137900/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/07/18 15:52 Lab File ID: 33574-05.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|---------------|----------------|---------------------|---------|----------------|
|               |                | REASON              | ANALYST | DATE           |
| Ethylbenzene  |                | Invalid Compound ID | phamvu  | 12/10/18 17:25 |

Lab Sample ID: 200-46353-2 DL Client Sample ID: IA-1\_20181120 DL

Date Analyzed: 12/07/18 16:45 Lab File ID: 33574-06.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME         | RETENTION TIME | MANUAL INTEGRATION     |         |                |
|-----------------------|----------------|------------------------|---------|----------------|
|                       |                | REASON                 | ANALYST | DATE           |
| n-Butane              | 3.62           | Incomplete Integration | phamvu  | 12/10/18 17:25 |
| Chlorodifluoromethane |                | Invalid Compound ID    | phamvu  | 12/10/18 17:25 |
| sec-Butylbenzene      |                | Invalid Compound ID    | phamvu  | 12/10/18 17:26 |
| Styrene               |                | Invalid Compound ID    | phamvu  | 12/10/18 17:26 |
| Naphthalene           | 25.89          | Incomplete Integration | phamvu  | 12/10/18 17:26 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137447

Lab Sample ID: IC 200-137447/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/27/18 20:22 Lab File ID: 200-33385-004.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME           | RETENTION TIME | MANUAL INTEGRATION |         |                |
|-------------------------|----------------|--------------------|---------|----------------|
|                         |                | REASON             | ANALYST | DATE           |
| Chloroform              | 9.28           | Baseline           | mickd   | 11/28/18 08:49 |
| 1,1,1-Trichloroethane   | 9.54           | Split Peak         | mickd   | 11/28/18 08:52 |
| Carbon tetrachloride    | 9.79           | Split Peak         | mickd   | 11/28/18 08:53 |
| Benzene                 | 10.22          | Split Peak         | mickd   | 11/28/18 08:56 |
| Trichloroethene         | 11.49          | Split Peak         | mickd   | 11/28/18 08:57 |
| Dibromomethane          | 12.27          | Split Peak         | mickd   | 11/28/18 08:58 |
| cis-1,3-Dichloropropene | 13.49          | Split Peak         | mickd   | 11/28/18 08:59 |
| Tetrachloroethene       | 15.15          | Split Peak         | mickd   | 11/28/18 09:00 |
| 1,2-Dibromoethane       | 16.04          | Split Peak         | mickd   | 11/28/18 09:02 |

Lab Sample ID: IC 200-137447/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/27/18 21:13 Lab File ID: 200-33385-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION |         |                |
|----------------------------------|----------------|--------------------|---------|----------------|
|                                  |                | REASON             | ANALYST | DATE           |
| Methyl Ethyl Ketone (2-Butanone) | 8.84           | Split Peak         | mickd   | 11/28/18 09:07 |
| Cyclohexane                      | 9.53           | Split Peak         | mickd   | 11/28/18 09:09 |
| 1,1,1-Trichloroethane            | 9.54           | Split Peak         | mickd   | 11/28/18 09:09 |
| 1,2-Dichloropropane              | 12.02          | Split Peak         | mickd   | 11/28/18 09:10 |
| Dibromomethane                   | 12.28          | Split Peak         | mickd   | 11/28/18 09:11 |
| Bromodichloromethane             | 12.57          | Baseline           | mickd   | 11/28/18 09:12 |
| cis-1,3-Dichloropropene          | 13.48          | Split Peak         | mickd   | 11/28/18 09:13 |
| Toluene                          | 14.07          | Split Peak         | mickd   | 11/28/18 09:13 |
| o-Xylene                         | 18.30          | Baseline           | mickd   | 11/28/18 09:15 |
| Bromoform                        | 18.78          | Split Peak         | mickd   | 11/28/18 09:15 |
| Hexachlorobutadiene              | 24.54          | Split Peak         | mickd   | 11/28/18 09:16 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137447

Lab Sample ID: IC 200-137447/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/27/18 22:03 Lab File ID: 200-33385-006.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME       | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------------|----------------|--------------------|---------|----------------|
|                     |                | REASON             | ANALYST | DATE           |
| Acrylonitrile       | 7.08           | Baseline           | mickd   | 11/28/18 09:19 |
| 1,2-Dichloropropane | 12.01          | Baseline           | mickd   | 11/28/18 09:20 |

Lab Sample ID: IC 200-137447/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/27/18 22:54 Lab File ID: 200-33385-007.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------|----------------|--------------------|---------|----------------|
|               |                | REASON             | ANALYST | DATE           |
| Acrolein      | 5.59           | Missed Peak        | mickd   | 11/28/18 10:22 |

Lab Sample ID: ICIS 200-137447/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/27/18 23:44 Lab File ID: 200-33385-008.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------|----------------|--------------------|---------|----------------|
|               |                | REASON             | ANALYST | DATE           |
| Acrolein      | 5.59           | Missed Peak        | mickd   | 11/28/18 10:24 |

Lab Sample ID: IC 200-137447/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/28/18 00:35 Lab File ID: 200-33385-009.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------|----------------|--------------------|---------|----------------|
|               |                | REASON             | ANALYST | DATE           |
| 1,4-Dioxane   | 12.28          | Missed Peak        | mickd   | 11/28/18 09:36 |

Lab Sample ID: IC 200-137447/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 11/28/18 02:15 Lab File ID: 200-33385-011.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------|----------------|--------------------|---------|----------------|
|               |                | REASON             | ANALYST | DATE           |
| Acrolein      | 5.59           | Missed Peak        | mickd   | 11/28/18 10:26 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: CCVIS 200-137819/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/05/18 15:48 Lab File ID: 200-33531-003.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION        |         |                |
|---------------|----------------|---------------------------|---------|----------------|
|               |                | REASON                    | ANALYST | DATE           |
| Ethanol       | 5.20           | Peak assignment corrected | tobere  | 12/05/18 16:46 |



## AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1SDG No.: 200-46353-1Instrument ID: CHG.i Analysis Batch Number: 137819Lab Sample ID: MB 200-137819/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 12/05/18 17:29 Lab File ID: 200-33531-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|---|----------------|---------------------|---------|----------------|
|   |                | REASON              | ANALYST | DATE           |
| 1,1,1-Trichloroethane                         |                | Invalid Compound ID | bunmaa  | 12/06/18 12:59 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID | bunmaa  | 12/06/18 13:04 |
| 1,1,2-Trichlorotrifluoroethane                |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID | bunmaa  | 12/06/18 12:59 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| 1,3-Butadiene                                 |                | Invalid Compound ID | bunmaa  | 12/06/18 12:56 |
| 2-Chlorotoluene                               |                | Invalid Compound ID | bunmaa  | 12/06/18 13:05 |
| 3-Chloropropene                               |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID | bunmaa  | 12/06/18 13:07 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID | bunmaa  | 12/06/18 13:01 |
| Benzene                                       |                | Invalid Compound ID | bunmaa  | 12/06/18 13:00 |
| Benzyl chloride                               |                | Invalid Compound ID | bunmaa  | 12/06/18 13:08 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID | bunmaa  | 12/06/18 12:56 |
| Bromoform                                     |                | Invalid Compound ID | bunmaa  | 12/06/18 13:04 |
| Bromomethane                                  |                | Invalid Compound ID | bunmaa  | 12/06/18 12:56 |
| Carbon disulfide                              |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| Chloroethane                                  |                | Invalid Compound ID | bunmaa  | 12/06/18 12:56 |
| Chloromethane                                 |                | Invalid Compound ID | bunmaa  | 12/06/18 12:55 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID | bunmaa  | 12/06/18 12:59 |
| cis-1,3-Dichloropropene                       |                | Invalid Compound ID | bunmaa  | 12/06/18 13:01 |
| Cumene  |                | Invalid Compound ID | bunmaa  | 12/06/18 13:04 |
| Dibromochloromethane                          |                | Invalid Compound ID | bunmaa  | 12/06/18 13:02 |
| Ethylbenzene                                  |                | Invalid Compound ID | bunmaa  | 12/06/18 13:03 |
| Hexachlorobutadiene                           |                | Invalid Compound ID | bunmaa  | 12/06/18 13:08 |
| Isopropyl alcohol                             |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| Methyl Butyl Ketone (2-Hexanone)              |                | Invalid Compound ID | bunmaa  | 12/06/18 13:02 |
| Methyl tert-butyl ether                       |                | Invalid Compound ID | bunmaa  | 12/06/18 12:58 |
| n-Butane                                      |                | Invalid Compound ID | bunmaa  | 12/06/18 12:55 |
| n-Butylbenzene                                |                | Invalid Compound ID | bunmaa  | 12/06/18 13:08 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: MB 200-137819/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/05/18 17:29 Lab File ID: 200-33531-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|---------------------------|----------------|---------------------|---------|----------------|
|                           |                | REASON              | ANALYST | DATE           |
| n-Heptane                 |                | Invalid Compound ID | bunmaa  | 12/06/18 13:00 |
| n-Hexane                  |                | Invalid Compound ID | bunmaa  | 12/06/18 12:59 |
| n-Propylbenzene           |                | Invalid Compound ID | bunmaa  | 12/06/18 13:05 |
| sec-Butylbenzene          |                | Invalid Compound ID | bunmaa  | 12/06/18 13:07 |
| tert-Butylbenzene         |                | Invalid Compound ID | bunmaa  | 12/06/18 13:06 |
| Tetrachloroethene         |                | Invalid Compound ID | bunmaa  | 12/06/18 13:02 |
| Tetrahydrofuran           |                | Invalid Compound ID | bunmaa  | 12/06/18 12:59 |
| trans-1,2-Dichloroethene  |                | Invalid Compound ID | bunmaa  | 12/06/18 12:57 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID | bunmaa  | 12/06/18 13:01 |
| Trichloroethene           |                | Invalid Compound ID | bunmaa  | 12/06/18 13:00 |
| Vinyl chloride            |                | Invalid Compound ID | bunmaa  | 12/06/18 12:55 |
| Toluene                   | 14.07          | Assign Peak         | bunmaa  | 12/06/18 13:01 |
| 1,2-Dibromoethane         | 16.04          | Assign Peak         | bunmaa  | 12/06/18 13:02 |
| o-Xylene                  | 18.28          | Assign Peak         | bunmaa  | 12/06/18 13:03 |
| Styrene                   | 18.34          | Assign Peak         | bunmaa  | 12/06/18 13:04 |
| 4-Ethyltoluene            | 20.07          | Assign Peak         | bunmaa  | 12/06/18 13:06 |
| 1,2,4-Trimethylbenzene    | 20.79          | Assign Peak         | bunmaa  | 12/06/18 13:07 |
| 1,3-Dichlorobenzene       | 21.28          | Assign Peak         | bunmaa  | 12/06/18 13:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-1 Client Sample ID: AA-1\_20181120

Date Analyzed: 12/06/18 03:30 Lab File ID: 200-33531-017.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|---|----------------|---------------------|---------|----------------|
|   |                | REASON              | ANALYST | DATE           |
| 1,2-Dichlorotetrafluoroethane                 | 3.35           | Assign Peak         | bunmaa  | 12/06/18 16:23 |
| Carbon disulfide                              | 6.01           | Assign Peak         | bunmaa  | 12/06/18 16:24 |
| Chloroform                                    | 9.26           | Assign Peak         | bunmaa  | 12/06/18 16:25 |
| Cyclohexane                                   | 9.52           | Assign Peak         | bunmaa  | 12/06/18 16:26 |
| 1,1,1-Trichloroethane                         |                | Invalid Compound ID | bunmaa  | 12/06/18 16:26 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID | bunmaa  | 12/06/18 16:29 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID | bunmaa  | 12/06/18 16:25 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID | bunmaa  | 12/06/18 16:24 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| 1,3-Butadiene                                 |                | Invalid Compound ID | bunmaa  | 12/06/18 16:24 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| 1,4-Dioxane                                   |                | Invalid Compound ID | bunmaa  | 12/06/18 16:27 |
| 2-Chlorotoluene                               |                | Invalid Compound ID | bunmaa  | 12/06/18 16:29 |
| 3-Chloropropene                               |                | Invalid Compound ID | bunmaa  | 12/06/18 16:25 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID | bunmaa  | 12/06/18 16:27 |
| Benzyl chloride                               |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID | bunmaa  | 12/06/18 16:24 |
| Bromomethane                                  |                | Invalid Compound ID | bunmaa  | 12/06/18 16:24 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID | bunmaa  | 12/06/18 16:25 |
| cis-1,3-Dichloropropene                       |                | Invalid Compound ID | bunmaa  | 12/06/18 16:27 |
| Cumene  |                | Invalid Compound ID | bunmaa  | 12/06/18 16:29 |
| Hexachlorobutadiene                           |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| Methyl Butyl Ketone (2-Hexanone)              |                | Invalid Compound ID | bunmaa  | 12/06/18 16:28 |
| Methyl tert-butyl ether                       |                | Invalid Compound ID | bunmaa  | 12/06/18 16:25 |
| Naphthalene                                   |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| n-Butylbenzene                                |                | Invalid Compound ID | bunmaa  | 12/06/18 16:30 |
| sec-Butylbenzene                              |                | Invalid Compound ID | bunmaa  | 12/06/18 16:29 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-1 Client Sample ID: AA-1\_20181120

Date Analyzed: 12/06/18 03:30 Lab File ID: 200-33531-017.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|---------------------------|----------------|---------------------|---------|----------------|
|                           |                | REASON              | ANALYST | DATE           |
| tert-Butylbenzene         |                | Invalid Compound ID | bunmaa  | 12/06/18 16:29 |
| Tetrahydrofuran           |                | Invalid Compound ID | bunmaa  | 12/06/18 16:25 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID | bunmaa  | 12/06/18 16:27 |
| 2,2,4-Trimethylpentane    | 10.20          | Assign Peak         | bunmaa  | 12/06/18 16:26 |
| n-Heptane                 | 10.56          | Assign Peak         | bunmaa  | 12/06/18 16:27 |
| Styrene                   | 18.34          | Assign Peak         | bunmaa  | 12/06/18 16:28 |
| n-Propylbenzene           | 19.84          | Assign Peak         | bunmaa  | 12/06/18 16:29 |
| 1,4-Dichlorobenzene       | 21.41          | Assign Peak         | bunmaa  | 12/06/18 16:30 |



## AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1SDG No.: 200-46353-1Instrument ID: CHG.i Analysis Batch Number: 137819Lab Sample ID: 200-46353-2 Client Sample ID: IA-1\_20181120Date Analyzed: 12/06/18 04:21 Lab File ID: 200-33531-018.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION  |         |                |
|----------------------------------|----------------|---------------------|---------|----------------|
|                                  |                | REASON              | ANALYST | DATE           |
| Methylene Chloride               | 6.56           | Assign Peak         | bunmaa  | 12/06/18 17:17 |
| tert-Butyl alcohol               | 6.80           | Assign Peak         | bunmaa  | 12/06/18 17:18 |
| Cyclohexane                      | 9.53           | Assign Peak         | bunmaa  | 12/06/18 17:19 |
| 1,1,1-Trichloroethane            |                | Invalid Compound ID | bunmaa  | 12/06/18 17:19 |
| 1,1,2,2-Tetrachloroethane        |                | Invalid Compound ID | bunmaa  | 12/06/18 17:22 |
| 1,1-Dichloroethane               |                | Invalid Compound ID | bunmaa  | 12/06/18 17:18 |
| 1,1-Dichloroethene               |                | Invalid Compound ID | bunmaa  | 12/06/18 17:17 |
| 1,2,4-Trichlorobenzene           |                | Invalid Compound ID | bunmaa  | 12/06/18 17:33 |
| 1,2-Dichlorobenzene              |                | Invalid Compound ID | bunmaa  | 12/06/18 17:33 |
| 1,2-Dichloroethane               |                | Invalid Compound ID | bunmaa  | 12/06/18 17:20 |
| 1,2-Dichlorotetrafluoroethane    |                | Invalid Compound ID | bunmaa  | 12/06/18 17:16 |
| 1,3-Butadiene                    |                | Invalid Compound ID | bunmaa  | 12/06/18 17:16 |
| 1,3-Dichlorobenzene              |                | Invalid Compound ID | bunmaa  | 12/06/18 17:24 |
| 1,4-Dioxane                      |                | Invalid Compound ID | bunmaa  | 12/06/18 17:21 |
| 2-Chlorotoluene                  |                | Invalid Compound ID | bunmaa  | 12/06/18 17:24 |
| 3-Chloropropene                  |                | Invalid Compound ID | bunmaa  | 12/06/18 17:17 |
| Benzyl chloride                  |                | Invalid Compound ID | bunmaa  | 12/06/18 17:32 |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID | bunmaa  | 12/06/18 17:16 |
| Bromomethane                     |                | Invalid Compound ID | bunmaa  | 12/06/18 17:16 |
| Carbon disulfide                 |                | Invalid Compound ID | bunmaa  | 12/06/18 17:17 |
| Chlorobenzene                    |                | Invalid Compound ID | bunmaa  | 12/06/18 17:22 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID | bunmaa  | 12/06/18 17:18 |
| cis-1,3-Dichloropropene          |                | Invalid Compound ID | bunmaa  | 12/06/18 17:21 |
| Hexachlorobutadiene              |                | Invalid Compound ID | bunmaa  | 12/06/18 17:33 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID | bunmaa  | 12/06/18 17:21 |
| Methyl methacrylate              |                | Invalid Compound ID | bunmaa  | 12/06/18 17:20 |
| Methyl tert-butyl ether          |                | Invalid Compound ID | bunmaa  | 12/06/18 17:18 |
| Naphthalene                      |                | Invalid Compound ID | bunmaa  | 12/06/18 17:33 |
| n-Butylbenzene                   |                | Invalid Compound ID | bunmaa  | 12/06/18 17:32 |
| sec-Butylbenzene                 |                | Invalid Compound ID | bunmaa  | 12/06/18 17:24 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-2 Client Sample ID: IA-1\_20181120

Date Analyzed: 12/06/18 04:21 Lab File ID: 200-33531-018.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION     |         |                |
|---------------------------|----------------|------------------------|---------|----------------|
|                           |                | REASON                 | ANALYST | DATE           |
| tert-Butylbenzene         |                | Invalid Compound ID    | bunmaa  | 12/06/18 17:24 |
| Tetrahydrofuran           |                | Invalid Compound ID    | bunmaa  | 12/06/18 17:19 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID    | bunmaa  | 12/06/18 17:21 |
| Trichloroethene           |                | Invalid Compound ID    | bunmaa  | 12/06/18 17:20 |
| Vinyl chloride            |                | Invalid Compound ID    | bunmaa  | 12/06/18 17:16 |
| n-Heptane                 | 10.57          | Assign Peak            | bunmaa  | 12/06/18 17:20 |
| Bromodichloromethane      | 12.56          | Incomplete Integration | bunmaa  | 12/06/18 17:21 |
| Cumene                    | 19.05          | Assign Peak            | bunmaa  | 12/06/18 17:22 |
| n-Propylbenzene           | 19.84          | Assign Peak            | bunmaa  | 12/06/18 17:23 |
| 1,4-Dichlorobenzene       | 21.42          | Assign Peak            | bunmaa  | 12/06/18 17:24 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-3 Client Sample ID: IA-2\_20181120

Date Analyzed: 12/06/18 05:11 Lab File ID: 200-33531-019.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---|----------------|------------------------|-----------|----------------|
|   |                | REASON                 | ANALYST   | DATE           |
| Carbon disulfide                              | 6.01           | Assign Peak            | bunmaa    | 12/07/18 08:55 |
| Chloroform                                    | 9.27           | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| Cyclohexane                                   | 9.52           | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| 1,1,1-Trichloroethane                         |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:00 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| 1,2-Dichlorotetrafluoroethane                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:54 |
| 1,3-Butadiene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:55 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| 1,4-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:59 |
| 1,4-Dioxane                                   |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| 2-Chlorotoluene                               |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| 3-Chloropropene                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:56 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:57 |
| Benzyl chloride                               |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| Bromomethane                                  |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| Chlorobenzene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:57 |
| Chloroethane                                  |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| Cumene  |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| Hexachlorobutadiene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| Methyl Butyl Ketone (2-Hexanone)              |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| Naphthalene                                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:00 |
| n-Butylbenzene                                |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-3 Client Sample ID: IA-2\_20181120

Date Analyzed: 12/06/18 05:11 Lab File ID: 200-33531-019.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---------------------------|----------------|------------------------|-----------|----------------|
|                           |                | REASON                 | ANALYST   | DATE           |
| n-Propylbenzene           |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| sec-Butylbenzene          |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| Styrene                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:58 |
| tert-Butyl alcohol        |                | Invalid Compound ID    | bunmaa    | 12/07/18 08:56 |
| tert-Butylbenzene         |                | Invalid Compound ID    | guazzonig | 12/06/18 12:01 |
| Tetrahydrofuran           |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID    | guazzonig | 12/06/18 12:00 |
| Vinyl chloride            |                | Invalid Compound ID    | guazzonig | 12/06/18 11:59 |
| n-Heptane                 | 10.55          | Assign Peak            | bunmaa    | 12/07/18 08:56 |
| o-Xylene                  | 18.29          | Incomplete Integration | guazzonig | 12/06/18 12:00 |
| 4-Ethyltoluene            | 20.05          | Assign Peak            | bunmaa    | 12/07/18 08:58 |
| 1,3,5-Trimethylbenzene    | 20.17          | Assign Peak            | bunmaa    | 12/07/18 08:59 |



## AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1SDG No.: 200-46353-1Instrument ID: CHG.i Analysis Batch Number: 137819Lab Sample ID: 200-46353-4 Client Sample ID: IA-3\_20181120Date Analyzed: 12/06/18 06:01 Lab File ID: 200-33531-020.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|----------------------------------|----------------|------------------------|-----------|----------------|
|                                  |                | REASON                 | ANALYST   | DATE           |
| Chloroform                       | 9.27           | Assign Peak            | bunmaa    | 12/07/18 09:03 |
| Cyclohexane                      | 9.52           | Incomplete Integration | guazzonig | 12/06/18 11:55 |
| 1,1,1-Trichloroethane            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:03 |
| 1,1,2,2-Tetrachloroethane        |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| 1,1-Dichloroethane               |                | Invalid Compound ID    | guazzonig | 12/06/18 11:55 |
| 1,1-Dichloroethene               |                | Invalid Compound ID    | guazzonig | 12/06/18 11:53 |
| 1,2,4-Trichlorobenzene           |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| 1,2-Dichloroethane               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:03 |
| 1,2-Dichlorotetrafluoroethane    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:01 |
| 1,3-Butadiene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:01 |
| 1,3-Dichlorobenzene              |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| 3-Chloropropene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:02 |
| 4-Isopropyltoluene               |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| Benzyl chloride                  |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID    | guazzonig | 12/06/18 11:53 |
| Bromomethane                     |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:01 |
| Chlorobenzene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:05 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID    | guazzonig | 12/06/18 11:55 |
| Hexachlorobutadiene              |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:05 |
| Methyl tert-butyl ether          |                | Invalid Compound ID    | guazzonig | 12/06/18 11:55 |
| n-Butylbenzene                   |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| sec-Butylbenzene                 |                | Invalid Compound ID    | guazzonig | 12/06/18 11:57 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID    | guazzonig | 12/06/18 11:56 |
| Trichloroethene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:03 |
| Vinyl chloride                   |                | Invalid Compound ID    | guazzonig | 12/06/18 11:53 |
| 1,4-Dioxane                      | 12.32          | Assign Peak            | bunmaa    | 12/07/18 09:04 |
| Tetrachloroethene                | 15.14          | Incomplete Integration | guazzonig | 12/06/18 11:56 |
| o-Xylene                         | 18.28          | Incomplete Integration | guazzonig | 12/06/18 11:56 |
| Styrene                          | 18.33          | Incomplete Integration | guazzonig | 12/06/18 11:56 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-4 Client Sample ID: IA-3\_20181120

Date Analyzed: 12/06/18 06:01 Lab File ID: 200-33531-020.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME       | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------------|----------------|--------------------|---------|----------------|
|                     |                | REASON             | ANALYST | DATE           |
| Cumene              | 19.04          | Assign Peak        | bunmaa  | 12/07/18 09:05 |
| 1,4-Dichlorobenzene | 21.41          | Assign Peak        | bunmaa  | 12/07/18 09:06 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-5 Client Sample ID: IA-4\_20181120

Date Analyzed: 12/06/18 06:51 Lab File ID: 200-33531-021.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|----------------------------------|----------------|------------------------|-----------|----------------|
|                                  |                | REASON                 | ANALYST   | DATE           |
| Carbon disulfide                 | 6.00           | Assign Peak            | bunmaa    | 12/07/18 09:09 |
| Chloroform                       | 9.26           | Assign Peak            | bunmaa    | 12/07/18 09:10 |
| Cyclohexane                      | 9.51           | Incomplete Integration | guazzonig | 12/06/18 13:33 |
| 1,1,2,2-Tetrachloroethane        |                | Invalid Compound ID    | guazzonig | 12/06/18 13:34 |
| 1,1-Dichloroethene               |                | Invalid Compound ID    | guazzonig | 12/06/18 13:33 |
| 1,2,4-Trichlorobenzene           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| 1,2-Dichlorobenzene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| 1,2-Dichlorotetrafluoroethane    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:07 |
| 1,3,5-Trimethylbenzene           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:12 |
| 1,3-Butadiene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:07 |
| 1,3-Dichlorobenzene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| 1,4-Dichlorobenzene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| 1,4-Dioxane                      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:11 |
| 2-Chlorotoluene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:12 |
| 3-Chloropropene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:09 |
| 4-Ethyltoluene                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:12 |
| 4-Isopropyltoluene               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| Benzyl chloride                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID    | guazzonig | 12/06/18 13:33 |
| Chlorobenzene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:12 |
| Chloroethane                     |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:08 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID    | guazzonig | 12/06/18 13:33 |
| cis-1,3-Dichloropropene          |                | Invalid Compound ID    | guazzonig | 12/06/18 13:34 |
| Cumene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 13:34 |
| Hexachlorobutadiene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:11 |
| Methyl tert-butyl ether          |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:09 |
| Naphthalene                      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| n-Butylbenzene                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:13 |
| n-Propylbenzene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:12 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-5 Client Sample ID: IA-4\_20181120

Date Analyzed: 12/06/18 06:51 Lab File ID: 200-33531-021.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|---------------------------|----------------|---------------------|-----------|----------------|
|                           |                | REASON              | ANALYST   | DATE           |
| sec-Butylbenzene          |                | Invalid Compound ID | bunmaa    | 12/07/18 09:13 |
| Styrene                   |                | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| tert-Butyl alcohol        |                | Invalid Compound ID | bunmaa    | 12/07/18 09:09 |
| tert-Butylbenzene         |                | Invalid Compound ID | bunmaa    | 12/07/18 09:12 |
| trans-1,2-Dichloroethene  |                | Invalid Compound ID | guazzonig | 12/06/18 13:33 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| Trichloroethene           |                | Invalid Compound ID | guazzonig | 12/06/18 13:34 |
| 1,2,4-Trimethylbenzene    | 20.79          | Assign Peak         | bunmaa    | 12/07/18 09:13 |



## AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1SDG No.: 200-46353-1Instrument ID: CHG.i Analysis Batch Number: 137819Lab Sample ID: 200-46353-6 Client Sample ID: IA-5\_20181120Date Analyzed: 12/06/18 07:42 Lab File ID: 200-33531-022.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|----------------------------------|----------------|------------------------|-----------|----------------|
|                                  |                | REASON                 | ANALYST   | DATE           |
| Methylene Chloride               | 6.55           | Incomplete Integration | guazzonig | 12/06/18 13:35 |
| Chloroform                       | 9.28           | Assign Peak            | bunmaa    | 12/07/18 09:19 |
| Cyclohexane                      | 9.54           | Incomplete Integration | guazzonig | 12/06/18 13:36 |
| 1,1,2,2-Tetrachloroethane        |                | Invalid Compound ID    | guazzonig | 12/06/18 13:36 |
| 1,1-Dichloroethane               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:19 |
| 1,1-Dichloroethene               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| 1,2,4-Trichlorobenzene           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:23 |
| 1,2-Dichlorobenzene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:23 |
| 1,2-Dichloroethane               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:19 |
| 1,2-Dichlorotetrafluoroethane    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:17 |
| 1,3-Butadiene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| 1,3-Dichlorobenzene              |                | Invalid Compound ID    | guazzonig | 12/06/18 13:38 |
| 3-Chloropropene                  |                | Invalid Compound ID    | guazzonig | 12/06/18 13:35 |
| Benzyl chloride                  |                | Invalid Compound ID    | guazzonig | 12/06/18 13:38 |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| Bromomethane                     |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| Chlorobenzene                    |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:21 |
| Chloroethane                     |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:19 |
| cis-1,3-Dichloropropene          |                | Invalid Compound ID    | guazzonig | 12/06/18 13:36 |
| Hexachlorobutadiene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:24 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:21 |
| Methyl tert-butyl ether          |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:18 |
| Naphthalene                      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:24 |
| n-Butylbenzene                   |                | Invalid Compound ID    | guazzonig | 12/06/18 13:38 |
| sec-Butylbenzene                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:23 |
| tert-Butylbenzene                |                | Invalid Compound ID    | guazzonig | 12/06/18 13:38 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID    | guazzonig | 12/06/18 13:36 |
| Vinyl chloride                   |                | Invalid Compound ID    | guazzonig | 12/06/18 13:35 |
| n-Heptane                        | 10.56          | Assign Peak            | bunmaa    | 12/07/18 09:20 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-6 Client Sample ID: IA-5\_20181120

Date Analyzed: 12/06/18 07:42 Lab File ID: 200-33531-022.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME       | RETENTION TIME | MANUAL INTEGRATION |         |                |
|---------------------|----------------|--------------------|---------|----------------|
|                     |                | REASON             | ANALYST | DATE           |
| Methyl methacrylate | 12.20          | Assign Peak        | bunmaa  | 12/07/18 09:20 |
| Styrene             | 18.34          | Assign Peak        | bunmaa  | 12/07/18 09:21 |
| Cumene              | 19.05          | Assign Peak        | bunmaa  | 12/07/18 09:22 |
| n-Propylbenzene     | 19.85          | Assign Peak        | bunmaa  | 12/07/18 09:22 |
| 4-Ethyltoluene      | 20.06          | Assign Peak        | bunmaa  | 12/07/18 09:23 |
| 1,4-Dichlorobenzene | 21.42          | Assign Peak        | bunmaa  | 12/07/18 09:23 |

## AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1SDG No.: 200-46353-1Instrument ID: CHG.i Analysis Batch Number: 137819Lab Sample ID: 200-46353-7 Client Sample ID: MP-1\_20181120Date Analyzed: 12/06/18 08:32 Lab File ID: 200-33531-023.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---|----------------|------------------------|-----------|----------------|
|   |                | REASON                 | ANALYST   | DATE           |
| Cyclohexane                                   | 9.52           | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID    | guazzonig | 12/06/18 13:40 |
| 1,1,2-Trichlorotrifluoroethane                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID    | guazzonig | 12/06/18 13:39 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| 1,2-Dibromoethane                             |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| 1,2-Dichlorotetrafluoroethane                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:25 |
| 1,3-Butadiene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:25 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| 1,4-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| 1,4-Dioxane                                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:27 |
| 2-Chlorotoluene                               |                | Invalid Compound ID    | guazzonig | 12/06/18 13:40 |
| 3-Chloropropene                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| 4-Ethyltoluene                                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:30 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Benzene                                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:27 |
| Benzyl chloride                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| Bromomethane                                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:25 |
| Chlorobenzene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Chlorodifluoromethane                         |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:25 |
| Chloromethane                                 |                | Invalid Compound ID    | guazzonig | 12/06/18 13:38 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| cis-1,3-Dichloropropene                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Cumene  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:29 |
| Ethylbenzene                                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Hexachlorobutadiene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-7 Client Sample ID: MP-1\_20181120

Date Analyzed: 12/06/18 08:32 Lab File ID: 200-33531-023.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|----------------------------------|----------------|------------------------|-----------|----------------|
|                                  |                | REASON                 | ANALYST   | DATE           |
| Isopropyl alcohol                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| m,p-Xylene                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:29 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Methyl Ethyl Ketone (2-Butanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| Methyl tert-butyl ether          |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| Methylene Chloride               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| Naphthalene                      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| n-Butane                         |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:25 |
| n-Butylbenzene                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| n-Hexane                         |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| n-Propylbenzene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:30 |
| o-Xylene                         |                | Invalid Compound ID    | guazzonig | 12/06/18 13:40 |
| sec-Butylbenzene                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:31 |
| Styrene                          |                | Invalid Compound ID    | guazzonig | 12/06/18 13:40 |
| tert-Butylbenzene                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:30 |
| Tetrahydrofuran                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:28 |
| Trichlorofluoromethane           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:26 |
| Vinyl chloride                   |                | Invalid Compound ID    | guazzonig | 12/06/18 13:39 |
| n-Heptane                        | 10.57          | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| Bromodichloromethane             | 12.56          | Assign Peak            | bunmaa    | 12/07/18 09:27 |
| Toluene                          | 14.06          | Incomplete Integration | guazzonig | 12/06/18 13:39 |
| 1,3,5-Trimethylbenzene           | 20.18          | Incomplete Integration | guazzonig | 12/06/18 13:40 |



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-8 Client Sample ID: MP-2\_20181120

Date Analyzed: 12/06/18 09:23 Lab File ID: 200-33531-024.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---|----------------|------------------------|-----------|----------------|
|   |                | REASON                 | ANALYST   | DATE           |
| Trichlorofluoromethane                        | 4.77           | Incomplete Integration | guazzonig | 12/06/18 13:41 |
| tert-Butyl alcohol                            | 6.82           | Assign Peak            | bunmaa    | 12/07/18 09:33 |
| Chloroform                                    | 9.26           | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| Cyclohexane                                   | 9.53           | Assign Peak            | bunmaa    | 12/07/18 09:34 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID    | guazzonig | 12/06/18 13:43 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:33 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID    | guazzonig | 12/06/18 13:41 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| 1,2-Dibromoethane                             |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| 1,3-Butadiene                                 |                | Invalid Compound ID    | guazzonig | 12/06/18 13:41 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| 1,4-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| 1,4-Dioxane                                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| 2-Chlorotoluene                               |                | Invalid Compound ID    | guazzonig | 12/06/18 13:43 |
| 3-Chloropropene                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:33 |
| 4-Ethyltoluene                                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:37 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID    | guazzonig | 12/06/18 13:42 |
| Benzene                                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| Benzyl chloride                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:32 |
| Bromomethane                                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:32 |
| Chlorobenzene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:36 |
| Chlorodifluoromethane                         |                | Invalid Compound ID    | guazzonig | 12/06/18 13:41 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:34 |
| cis-1,3-Dichloropropene                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| Cumene  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:37 |
| Ethylbenzene                                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:36 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-8 Client Sample ID: MP-2\_20181120

Date Analyzed: 12/06/18 09:23 Lab File ID: 200-33531-024.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|----------------------------------|----------------|------------------------|-----------|----------------|
|                                  |                | REASON                 | ANALYST   | DATE           |
| Hexachlorobutadiene              |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| Isopropyl alcohol                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:32 |
| m,p-Xylene                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:36 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| Methyl Ethyl Ketone (2-Butanone) |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:34 |
| Methyl tert-butyl ether          |                | Invalid Compound ID    | guazzonig | 12/06/18 13:42 |
| Methylene Chloride               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:33 |
| Naphthalene                      |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| n-Butylbenzene                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| n-Hexane                         |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:33 |
| n-Propylbenzene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:37 |
| o-Xylene                         |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:36 |
| sec-Butylbenzene                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:38 |
| Styrene                          |                | Invalid Compound ID    | guazzonig | 12/06/18 13:43 |
| tert-Butylbenzene                |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:37 |
| Tetrahydrofuran                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:34 |
| trans-1,2-Dichloroethene         |                | Invalid Compound ID    | guazzonig | 12/06/18 13:42 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| Trichloroethene                  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:35 |
| 2,2,4-Trimethylpentane           | 10.19          | Assign Peak            | bunmaa    | 12/07/18 09:34 |
| n-Heptane                        | 10.57          | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| Toluene                          | 14.07          | Incomplete Integration | guazzonig | 12/06/18 13:42 |
| 1,2,4-Trimethylbenzene           | 20.80          | Assign Peak            | bunmaa    | 12/07/18 09:37 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-9 Client Sample ID: MP-3\_20181120

Date Analyzed: 12/06/18 10:13 Lab File ID: 200-33531-025.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---|----------------|------------------------|-----------|----------------|
|   |                | REASON                 | ANALYST   | DATE           |
| Chlorodifluoromethane                         | 3.18           | Assign Peak            | bunmaa    | 12/07/18 09:39 |
| 1,1,2-Trichlorotrifluoroethane                | 5.60           | Incomplete Integration | guazzonig | 12/06/18 13:44 |
| Methylene Chloride                            | 6.55           | Incomplete Integration | guazzonig | 12/06/18 13:44 |
| Methyl tert-butyl ether                       | 6.94           | Assign Peak            | bunmaa    | 12/07/18 09:41 |
| 1,1,1-Trichloroethane                         | 9.55           | Incomplete Integration | guazzonig | 12/06/18 13:45 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID    | guazzonig | 12/06/18 13:47 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:41 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:40 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:45 |
| 1,2-Dichloroethane                            |                | Invalid Compound ID    | guazzonig | 12/06/18 13:45 |
| 1,3-Butadiene                                 |                | Invalid Compound ID    | guazzonig | 12/06/18 13:44 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |
| 1,4-Dichlorobenzene                           |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |
| 1,4-Dioxane                                   |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:43 |
| 2-Chlorotoluene                               |                | Invalid Compound ID    | guazzonig | 12/06/18 13:48 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID    | guazzonig | 12/06/18 13:46 |
| Benzyl chloride                               |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:45 |
| Bromodichloromethane                          |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:43 |
| Bromoethene (Vinyl Bromide)                   |                | Invalid Compound ID    | guazzonig | 12/06/18 13:44 |
| Bromomethane                                  |                | Invalid Compound ID    | guazzonig | 12/06/18 13:44 |
| Chlorobenzene                                 |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:43 |
| cis-1,2-Dichloroethene                        |                | Invalid Compound ID    | guazzonig | 12/06/18 13:45 |
| cis-1,3-Dichloropropene                       |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:43 |
| Cumene  |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:44 |
| Hexachlorobutadiene                           |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:45 |
| n-Butylbenzene                                |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |
| sec-Butylbenzene                              |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |
| tert-Butylbenzene                             |                | Invalid Compound ID    | guazzonig | 12/06/18 13:49 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137819

Lab Sample ID: 200-46353-9 Client Sample ID: MP-3\_20181120

Date Analyzed: 12/06/18 10:13 Lab File ID: 200-33531-025.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION     |           |                |
|---------------------------|----------------|------------------------|-----------|----------------|
|                           |                | REASON                 | ANALYST   | DATE           |
| Tetrahydrofuran           |                | Invalid Compound ID    | guazzonig | 12/06/18 13:45 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID    | bunmaa    | 12/07/18 09:43 |
| 2,2,4-Trimethylpentane    | 10.19          | Assign Peak            | bunmaa    | 12/07/18 09:42 |
| Trichloroethene           | 11.48          | Incomplete Integration | guazzonig | 12/06/18 13:45 |
| Bromoform                 | 18.78          | Incomplete Integration | guazzonig | 12/06/18 13:47 |
| 4-Ethyltoluene            | 20.06          | Assign Peak            | bunmaa    | 12/07/18 09:44 |
| 1,3,5-Trimethylbenzene    | 20.18          | Incomplete Integration | guazzonig | 12/06/18 13:48 |



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|---|----------------|---------------------|-----------------|----------------|
|   |                | REASON              | ANALYST         | DATE           |
| Methylene Chloride                            | 6.56           | Assign Peak         | puangmale<br>ek | 12/07/18 15:50 |
| 1,1,1-Trichloroethane                         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 1,1,2-Trichlorotrifluoroethane                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| 1,2,4-Trimethylbenzene                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 1,3,5-Trimethylbenzene                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 1,3-Butadiene                                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| 1,4-Dioxane                                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| 2-Chlorotoluene                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 3-Chloropropene                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| 4-Ethyltoluene                                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 4-Isopropyltoluene                            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Benzene                                       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| Benzyl chloride                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|----------------------------------|----------------|---------------------|-----------------|----------------|
|                                  |                | REASON              | ANALYST         | DATE           |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Bromoform                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Bromomethane                     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Carbon disulfide                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Carbon tetrachloride             |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| Chlorobenzene                    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Chlorodifluoromethane            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Chloromethane                    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| Cumene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Cyclohexane                      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| Dibromochloromethane             |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Ethylbenzene                     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Hexachlorobutadiene              |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Isopropyl alcohol                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| m,p-Xylene                       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: MB 200-137867/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/06/18 17:33 Lab File ID: 200-33558-005.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|---------------------------|----------------|---------------------|-----------------|----------------|
|                           |                | REASON              | ANALYST         | DATE           |
| Methyl tert-butyl ether   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| n-Butylbenzene            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| n-Heptane                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| n-Hexane                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| n-Propylbenzene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| o-Xylene                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| sec-Butylbenzene          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Styrene                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| tert-Butylbenzene         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Tetrachloroethene         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Tetrahydrofuran           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| Toluene                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| trans-1,2-Dichloroethene  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:51 |
| trans-1,3-Dichloropropene |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:52 |
| Trichlorofluoromethane    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Vinyl chloride            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 15:50 |
| Trichloroethene           | 11.47          | Assign Peak         | puangmale<br>ek | 12/07/18 15:51 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-6 DL Client Sample ID: IA-5\_20181120 DL

Date Analyzed: 12/06/18 22:33 Lab File ID: 200-33558-011.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                 | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|-------------------------------|----------------|---------------------|-----------------|----------------|
|                               |                | REASON              | ANALYST         | DATE           |
| 1,1,2,2-Tetrachloroethane     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| 1,1-Dichloroethane            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:15 |
| 1,1-Dichloroethene            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| 1,2,4-Trichlorobenzene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| 1,2-Dichlorobenzene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| 1,2-Dichlorotetrafluoroethane |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| 1,3-Butadiene                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| 1,3-Dichlorobenzene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| 1,4-Dichlorobenzene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| 3-Chloropropene               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| 4-Isopropyltoluene            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Benzyl chloride               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Bromoethene (Vinyl Bromide)   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| Bromomethane                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| Chlorobenzene                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| cis-1,2-Dichloroethene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:15 |
| cis-1,3-Dichloropropene       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:34 |



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-6 DL Client Sample ID: IA-5\_20181120 DL

Date Analyzed: 12/06/18 22:33 Lab File ID: 200-33558-011.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|----------------------------------|----------------|---------------------|-----------------|----------------|
|                                  |                | REASON              | ANALYST         | DATE           |
| Hexachlorobutadiene              |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Methyl tert-butyl ether          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:15 |
| Naphthalene                      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| n-Butylbenzene                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| n-Heptane                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:34 |
| sec-Butylbenzene                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Styrene                          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| tert-Butylbenzene                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:35 |
| Tetrahydrofuran                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:15 |
| trans-1,2-Dichloroethene         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:15 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:34 |
| Vinyl chloride                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:14 |
| 2,2,4-Trimethylpentane           | 10.20          | Assign Peak         | puangmale<br>ek | 12/07/18 16:15 |
| Tetrachloroethene                | 15.14          | Assign Peak         | puangmale<br>ek | 12/07/18 16:35 |
| 4-Ethyltoluene                   | 20.07          | Assign Peak         | puangmale<br>ek | 12/07/18 16:35 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4\_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                                 | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|---|----------------|---------------------|-----------------|----------------|
|   |                | REASON              | ANALYST         | DATE           |
| Chlorodifluoromethane                         | 3.18           | Assign Peak         | puangmale<br>ek | 12/07/18 16:37 |
| 1,1,1-Trichloroethane                         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| 1,1,2,2-Tetrachloroethane                     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 1,1-Dichloroethane                            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:03 |
| 1,1-Dichloroethene                            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:37 |
| 1,2,4-Trichlorobenzene                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 1,2-Dibromoethane                             |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| 1,2-Dichlorobenzene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 1,2-Dichlorotetrafluoroethane                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:37 |
| 1,3-Butadiene                                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:37 |
| 1,3-Dichlorobenzene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 1,4-Dichlorobenzene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 2-Chlorotoluene                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| 3-Chloropropene                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:03 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| Benzyl chloride                               |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| Bromodichloromethane                          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4\_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|----------------------------------|----------------|---------------------|-----------------|----------------|
|                                  |                | REASON              | ANALYST         | DATE           |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:37 |
| Bromoform                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| Bromomethane                     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 16:37 |
| Chlorobenzene                    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:03 |
| cis-1,3-Dichloropropene          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| Cumene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| Hexachlorobutadiene              |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| n-Butylbenzene                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| sec-Butylbenzene                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| tert-Butylbenzene                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:05 |
| Tetrahydrofuran                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:03 |
| trans-1,2-Dichloroethene         |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:03 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| Trichloroethene                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:04 |
| Methyl Butyl Ketone (2-Hexanone) | 15.52          | Assign Peak         | puangmale<br>ek | 12/07/18 17:04 |
| o-Xylene                         | 18.29          | Assign Peak         | puangmale<br>ek | 12/07/18 17:05 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-10 Client Sample ID: MP-4\_20181120

Date Analyzed: 12/06/18 23:23 Lab File ID: 200-33558-012.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME   | RETENTION TIME | MANUAL INTEGRATION |                 |                |
|-----------------|----------------|--------------------|-----------------|----------------|
|                 |                | REASON             | ANALYST         | DATE           |
| Styrene         | 18.34          | Assign Peak        | puangmale<br>ek | 12/07/18 17:05 |
| n-Propylbenzene | 19.85          | Assign Peak        | puangmale<br>ek | 12/07/18 17:05 |



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5\_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME             | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|---------------------------|----------------|---------------------|-----------------|----------------|
|                           |                | REASON              | ANALYST         | DATE           |
| trans-1,2-Dichloroethene  | 6.95           | Assign Peak         | puangmale<br>ek | 12/07/18 17:06 |
| 1,1,1-Trichloroethane     |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| 1,1,2,2-Tetrachloroethane |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 1,1-Dichloroethane        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| 1,1-Dichloroethene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:06 |
| 1,2,4-Trichlorobenzene    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 1,2-Dichlorobenzene       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 1,3,5-Trimethylbenzene    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 1,3-Butadiene             |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:06 |
| 1,3-Dichlorobenzene       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 1,4-Dichlorobenzene       |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 2-Chlorotoluene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 3-Chloropropene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:06 |
| 4-Ethyltoluene            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| 4-Isopropyltoluene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Benzyl chloride           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Bromodichloromethane      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5\_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME                    | RETENTION TIME | MANUAL INTEGRATION  |                 |                |
|----------------------------------|----------------|---------------------|-----------------|----------------|
|                                  |                | REASON              | ANALYST         | DATE           |
| Bromoethene (Vinyl Bromide)      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:06 |
| Bromoform                        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Chlorobenzene                    |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| Chlorodifluoromethane            |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:06 |
| cis-1,2-Dichloroethene           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| cis-1,3-Dichloropropene          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| Cumene                           |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Hexachlorobutadiene              |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Methyl Butyl Ketone (2-Hexanone) |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| Naphthalene                      |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| n-Butylbenzene                   |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| n-Propylbenzene                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| sec-Butylbenzene                 |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Styrene                          |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| tert-Butylbenzene                |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:08 |
| Tetrahydrofuran                  |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |
| trans-1,3-Dichloropropene        |                | Invalid Compound ID | puangmale<br>ek | 12/07/18 17:07 |

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Analysis Batch Number: 137867

Lab Sample ID: 200-46353-11 Client Sample ID: MP-5\_20181119

Date Analyzed: 12/07/18 00:13 Lab File ID: 200-33558-013.D GC Column: RTX-624 ID: 0.32 (mm)

| COMPOUND NAME   | RETENTION TIME | MANUAL INTEGRATION |                 |                |
|-----------------|----------------|--------------------|-----------------|----------------|
|                 |                | REASON             | ANALYST         | DATE           |
| Trichloroethene | 11.47          | Assign Peak        | puangmale<br>ek | 12/07/18 17:07 |
| 1,4-Dioxane     | 12.32          | Assign Peak        | puangmale<br>ek | 12/07/18 17:07 |
| m,p-Xylene      | 17.43          | Assign Peak        | puangmale<br>ek | 12/07/18 17:08 |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID             | Exp Date        | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent    |              | Analyte                        | Concentration   |
|------------------------|-----------------|-----------|------------------|----------------------|-------------------|--------------|--------------------------------|-----------------|
|                        |                 |           |                  |                      | Reagent ID        | Volume Added |                                |                 |
| ATTO15CAL1w_00197      | 12/07/18        | 09/11/18  | Nitrogen, Lot 12 | 15.463 L             | ATTO15CAL6w_00158 | 155 mL       | 1,1,1-Trichloroethane          | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,1,2,2-Tetrachloroethane      | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,1,2-Trichloroethane          | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,1,2-Trichlorotrifluoroethane | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,1-Dichloroethane             | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,1-Dichloroethene             | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2,3-Trichlorobenzene         | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2,3-Trichloropropane         | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2,4-Trichlorobenzene         | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2,4-Trimethylbenzene         | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2-Dibromoethane              | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2-Dichlorobenzene            | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2-Dichloroethane             | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2-Dichloropropane            | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,2-Dichlorotetrafluoroethane  | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,3,5-Trimethylbenzene         | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,3-Butadiene                  | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,3-Dichlorobenzene            | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,4-Dichlorobenzene            | 0.20044 ppb v/v |
|                        |                 |           |                  |                      |                   |              | 1,4-Dioxane                    | 0.20044 ppb v/v |
| 2,2,4-Trimethylpentane | 0.20044 ppb v/v |           |                  |                      |                   |              |                                |                 |
| 2-Chlorotoluene        | 0.20044 ppb v/v |           |                  |                      |                   |              |                                |                 |
| 2-Methylbutane         | 0.20044 ppb v/v |           |                  |                      |                   |              |                                |                 |
| 3-Chloropropene        | 0.20044 ppb v/v |           |                  |                      |                   |              |                                |                 |
| 4-Ethyltoluene         | 0.20044 ppb v/v |           |                  |                      |                   |              |                                |                 |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Cumene  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 0.20044 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration       |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|---------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                     |
|            |          |           |               |                      |                |              | Dibromomethane                      | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dodecane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethyl acetate                       | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethyl ether                         | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 0.400879 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butanol                           | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Decane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Heptane                           | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Hexane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Nonane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Octane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Naphthalene                         | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | o-Xylene                            | 0.20044 ppb<br>v/v  |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used   | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration       |
|--------------------|----------|-----------|-----------------|----------------------|---------------------|--------------|--------------------------------|---------------------|
|                    |          |           |                 |                      | Reagent ID          | Volume Added |                                |                     |
|                    |          |           |                 |                      |                     |              | Pentane                        | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Propene                        | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | sec-Butylbenzene               | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Styrene                        | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | tert-Butyl alcohol             | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | tert-Butylbenzene              | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Tetrachloroethene              | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Tetrahydrofuran                | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Toluene                        | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | trans-1,2-Dichloroethene       | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | trans-1,3-Dichloropropene      | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Trichloroethene                | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Trichlorofluoromethane         | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Undecane                       | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Vinyl acetate                  | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Vinyl chloride                 | 0.20044 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | Ethanol                        | 0.400944 ppb<br>v/v |
| .ATTO15CAL6w_00158 | 12/07/18 | 09/11/18  | Nitrogen, Lot 1 | 15.463 L             | ATTO15CALSTKi_00103 | 1546 mL      | 1,1,1-Trichloroethane          | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2-Trichloroethane          | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,1-Dichloroethane             | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,1-Dichloroethene             | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,3-Trichlorobenzene         | 19.9961 ppb<br>v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,3-Trichloropropane         | 19.9961 ppb<br>v/v  |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 19.9961 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                    |
|            |          |           |               |                      |                |              | Benzyl chloride             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cumene                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol           | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 39.9922 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran                     | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID            | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|-----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                       |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                       |          |           |                  |                      |                     |              | Toluene                                       | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene                      | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene                     | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichloroethene                               | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichlorofluoromethane                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Undecane                                      | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl acetate                                 | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl chloride                                | 19.9961 ppb v/v |
|                       |          |           |                  |                      | ATTO15EthCALw_00098 | 1237 mL      | Ethanol                                       | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Acrylonitrile                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                     |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                     |          |           |                      |                      |                     |              | Propene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | sec-Butylbenzene                              | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Styrene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | tert-Butylbenzene                             | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Tetrachloroethene                             | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Tetrahydrofuran                               | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Toluene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Trichloroethene                               | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Trichlorofluoromethane                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Undecane                                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Vinyl acetate                                 | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Vinyl chloride                                | 200 ppb v/v   |
| ...ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2-Methylbutane                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 3-Chloropropene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | Acetone                                       | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | Acetonitrile                                  | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | Acrolein                                      | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | Acrylonitrile                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | Alpha Methyl Styrene                          | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Benzene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Pentane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Propene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Styrene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| ..ATTO15EthCALw_00098    | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ...ATTO15EthCALs_00009   | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL1w_00200</b> | 12/23/18 | 11/24/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CAL6w_00161   | 155 mL       | 1,1,1-Trichloroethane          | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloropropane            | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3,5-Trimethylbenzene         | 0.20044 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Butadiene                  | 0.20044 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 0.20044 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 0.20044 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration       |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|---------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                     |
|            |          |           |               |                      |                |              | Chloroethane                        | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Chloroform                          | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Chloromethane                       | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene              | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene             | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Cumene                              | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Cyclohexane                         | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dibromomethane                      | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Dodecane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethyl acetate                       | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethyl ether                         | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 0.400879 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butane                            | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butanol                           | 0.20044 ppb<br>v/v  |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 0.20044 ppb<br>v/v  |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |                  |
|            |          |           |               |                      |                |              | n-Decane                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | n-Heptane                 | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | n-Hexane                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | n-Nonane                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | n-Octane                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Naphthalene               | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | o-Xylene                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Pentane                   | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Propene                   | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Styrene                   | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Toluene                   | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Trichloroethene           | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Trichlorofluoromethane    | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Undecane                  | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Vinyl acetate             | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Vinyl chloride            | 0.20044 ppb v/v  |
|            |          |           |               |                      |                |              | Ethanol                   | 0.400944 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID             | Exp Date        | Prep Date | Dilutant Used   | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|------------------------|-----------------|-----------|-----------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                        |                 |           |                 |                      | Reagent ID          | Volume Added |                                |                 |
| .ATTO15CAL6w_00161     | 12/23/18        | 11/23/18  | Nitrogen, Lot 1 | 15.463 L             | ATTO15CALSTKi_00106 | 1546 mL      | 1,1,1-Trichloroethane          | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,1,2-Trichloroethane          | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,1-Dichloroethane             | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,1-Dichloroethene             | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2,3-Trichlorobenzene         | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2,3-Trichloropropane         | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2,4-Trichlorobenzene         | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2,4-Trimethylbenzene         | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2-Dibromoethane              | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2-Dichlorobenzene            | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2-Dichloroethane             | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2-Dichloropropane            | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,3,5-Trimethylbenzene         | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,3-Butadiene                  | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,3-Dichlorobenzene            | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,4-Dichlorobenzene            | 19.9961 ppb v/v |
|                        |                 |           |                 |                      |                     |              | 1,4-Dioxane                    | 19.9961 ppb v/v |
| 2,2,4-Trimethylpentane | 19.9961 ppb v/v |           |                 |                      |                     |              |                                |                 |
| 2-Chlorotoluene        | 19.9961 ppb v/v |           |                 |                      |                     |              |                                |                 |
| 2-Methylbutane         | 19.9961 ppb v/v |           |                 |                      |                     |              |                                |                 |
| 3-Chloropropene        | 19.9961 ppb v/v |           |                 |                      |                     |              |                                |                 |
| 4-Ethyltoluene         | 19.9961 ppb v/v |           |                 |                      |                     |              |                                |                 |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cumene  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Dibromomethane                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | o-Xylene                         | 19.9961 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID            | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|-----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                       |          |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                       |          |           |                  |                      |                     |              | Pentane                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Propene                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | sec-Butylbenzene               | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Styrene                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | tert-Butyl alcohol             | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | tert-Butylbenzene              | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Tetrachloroethene              | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Tetrahydrofuran                | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Toluene                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichloroethene                | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichlorofluoromethane         | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Undecane                       | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl acetate                  | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl chloride                 | 19.9961 ppb v/v |
|                       |          |           |                  |                      | ATTO15EthCALw_00101 | 1237 mL      | Ethanol                        | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                        | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|--------------------------------|---------------|
|                     |          |           |                      |                      | Reagent ID     | Volume Added        |                                |               |
|                     |          |           |                      |                      |                |                     | Methyl methacrylate            | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Methyl tert-butyl ether        | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Methylene Chloride             | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Butane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Butanol                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Butylbenzene                 | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Decane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Heptane                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Hexane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Nonane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Octane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | n-Propylbenzene                | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Naphthalene                    | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | o-Xylene                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Pentane                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Propene                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | sec-Butylbenzene               | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Styrene                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | tert-Butyl alcohol             | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | tert-Butylbenzene              | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Tetrachloroethene              | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Tetrahydrofuran                | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Toluene                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene      | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Trichloroethene                | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Trichlorofluoromethane         | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Undecane                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Vinyl acetate                  | 200 ppb v/v   |
|                     |          |           |                      |                      |                |                     | Vinyl chloride                 | 200 ppb v/v   |
| ...ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane          | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane      | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane          | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1-Dichloroethane             | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1-Dichloroethene             | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dibromoethane              | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichloroethane             | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichloropropane            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane  | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3-Butadiene                  | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene            | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetone                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration    |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|------------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                  |
|                          |          |           |                           |                      |                     |              | Methylene Chloride             | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Butane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Butanol                      | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Butylbenzene                 | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Decane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Heptane                      | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Hexane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Nonane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Octane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | n-Propylbenzene                | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Naphthalene                    | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | o-Xylene                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Pentane                        | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Propene                        | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene               | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Styrene                        | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol             | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene              | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene              | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Toluene                        | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene      | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Trichloroethene                | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v        |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v        |
| ..ATTO15EthCALw_00101    | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v      |
| ...ATTO15EthCALs_00009   | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL          |
| <b>ATTO15CAL2w_00271</b> | 12/07/18 | 09/11/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CAL6w_00158   | 387 mL       | 1,1,1-Trichloroethane          | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 0.500453 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                  |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                  |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol           | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                  | 1.00091 ppb v/v  |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                  |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene                      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | o-Xylene                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Pentane                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Propene                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Styrene                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Toluene                          | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used   | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration    |
|--------------------|----------|-----------|-----------------|----------------------|---------------------|--------------|--------------------------------|------------------|
|                    |          |           |                 |                      | Reagent ID          | Volume Added |                                |                  |
|                    |          |           |                 |                      |                     |              | trans-1,2-Dichloroethene       | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | trans-1,3-Dichloropropene      | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Trichloroethene                | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Trichlorofluoromethane         | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Undecane                       | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Vinyl acetate                  | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Vinyl chloride                 | 0.500453 ppb v/v |
|                    |          |           |                 |                      |                     |              | Ethanol                        | 5.01064 ppb v/v  |
|                    |          |           |                 |                      | ATTO15EthCALw_00098 | 124 mL       | Ethanol                        | 5.01064 ppb v/v  |
| .ATTO15CAL6w_00158 | 12/07/18 | 09/11/18  | Nitrogen, Lot 1 | 15.463 L             | ATTO15CALSTKi_00103 | 1546 mL      | 1,1,1-Trichloroethane          | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2-Trichloroethane          | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,1-Dichloroethane             | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,1-Dichloroethene             | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,3-Trichlorobenzene         | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,3-Trichloropropane         | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,4-Trichlorobenzene         | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2,4-Trimethylbenzene         | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2-Dibromoethane              | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2-Dichlorobenzene            | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2-Dichloroethane             | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2-Dichloropropane            | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 19.9961 ppb v/v  |
|                    |          |           |                 |                      |                     |              | 1,3,5-Trimethylbenzene         | 19.9961 ppb v/v  |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 19.9961 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Chlorodifluoromethane               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane                       | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene              | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cumene                              | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cyclohexane                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromomethane                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dodecane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                       | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl ether                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 39.9922 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |                    |
|            |          |           |               |                      |                |              | n-Butylbenzene            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Toluene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichloroethene           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichlorofluoromethane    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Undecane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Vinyl acetate             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Vinyl chloride            | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID            | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|-----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                       |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                       |          |           |                  |                      | ATTO15EthCALw_00098 | 1237 mL      | Ethanol                                       | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Acrylonitrile                                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Alpha Methyl Styrene                          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Benzene                                       | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Benzyl chloride                               | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Bromodichloromethane                          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Bromoform                                     | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Bromomethane                                  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Carbon disulfide                              | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Carbon tetrachloride                          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Chlorobenzene                                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Chlorodifluoromethane                         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Chloroethane                                  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Chloroform                                    | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | Chloromethane                                 | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Propene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Toluene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Trichloroethene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Trichlorofluoromethane           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Undecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Vinyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Vinyl chloride                   | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                     |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
| ...ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 2-Methylbutane                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Acetonitrile                                  | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Acrolein                                      | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Acrylonitrile                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Alpha Methyl Styrene                          | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Chloroform                                    | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | Chloromethane                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                |                     | cis-1,3-Dichloropropene                       | 1 ppm v/v     |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID             | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |                     | Analyte                          | Concentration |
|------------------------|----------|-----------|---------------------------|----------------------|---------------------|---------------------|----------------------------------|---------------|
|                        |          |           |                           |                      | Reagent ID          | Volume Added        |                                  |               |
|                        |          |           |                           |                      |                     |                     | Cumene                           | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Cyclohexane                      | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Dibromochloromethane             | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Dibromomethane                   | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Dichlorodifluoromethane          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Dodecane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Ethyl acetate                    | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Ethyl ether                      | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Ethylbenzene                     | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Hexachlorobutadiene              | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Isopropyl alcohol                | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | m,p-Xylene                       | 2 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Methyl methacrylate              | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Methyl tert-butyl ether          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Methylene Chloride               | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Butane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Butanol                        | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Butylbenzene                   | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Decane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Heptane                        | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Hexane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Nonane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Octane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | n-Propylbenzene                  | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Naphthalene                      | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | o-Xylene                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Pentane                          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Propene                          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | sec-Butylbenzene                 | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Styrene                          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | tert-Butyl alcohol               | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | tert-Butylbenzene                | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Tetrachloroethene                | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Tetrahydrofuran                  | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Toluene                          | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | trans-1,2-Dichloroethene         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | trans-1,3-Dichloropropene        | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Trichloroethene                  | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Trichlorofluoromethane           | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Undecane                         | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Vinyl acetate                    | 1 ppm v/v     |
|                        |          |           |                           |                      |                     |                     | Vinyl chloride                   | 1 ppm v/v     |
| ..ATTO15EthCALw_00098  | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL            | Ethanol                          | 500 ppb v/v   |
| ...ATTO15EthCALs_00009 | 09/05/21 |           | Chem Service, Lot 5301900 |                      |                     | (Purchased Reagent) | Ethanol                          | 1 mL/mL       |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration    |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|------------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                  |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v      |
| .ATTO15EthCALs_00009     | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL          |
| <b>ATTO15CAL2w_00274</b> | 12/23/18 | 11/24/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CAL6w_00161   | 387 mL       | 1,1,1-Trichloroethane          | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloropropane            | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3,5-Trimethylbenzene         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Butadiene                  | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Dichlorobenzene            | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dichlorobenzene            | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dioxane                    | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2,2,4-Trimethylpentane         | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2-Chlorotoluene                | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2-Methylbutane                 | 0.500453 ppb v/v |
|                          |          |           |                           |                      |                     |              | 3-Chloropropene                | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                  |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Cumene  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration    |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                  |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 1.00091 ppb v/v  |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 0.500453 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene                      | 0.500453 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date            | Prep Date | Dilutant Used   | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration       |
|--------------------|---------------------|-----------|-----------------|----------------------|---------------------|--------------|--------------------------------|---------------------|
|                    |                     |           |                 |                      | Reagent ID          | Volume Added |                                |                     |
|                    |                     |           |                 |                      |                     |              | o-Xylene                       | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Pentane                        | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Propene                        | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | sec-Butylbenzene               | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Styrene                        | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | tert-Butyl alcohol             | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | tert-Butylbenzene              | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Tetrachloroethene              | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Tetrahydrofuran                | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Toluene                        | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | trans-1,2-Dichloroethene       | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | trans-1,3-Dichloropropene      | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Trichloroethene                | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Trichlorofluoromethane         | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Undecane                       | 0.500453 ppb<br>v/v |
|                    |                     |           |                 |                      |                     |              | Vinyl acetate                  | 0.500453 ppb<br>v/v |
| Vinyl chloride     | 0.500453 ppb<br>v/v |           |                 |                      |                     |              |                                |                     |
|                    |                     |           |                 |                      | ATTO15EthCALw_00101 | 124 mL       | Ethanol                        | 5.01064 ppb<br>v/v  |
| .ATTO15CAL6w_00161 | 12/23/18            | 11/23/18  | Nitrogen, Lot 1 | 15.463 L             | ATTO15CALSTKi_00106 | 1546 mL      | 1,1,1-Trichloroethane          | 19.9961 ppb<br>v/v  |
|                    |                     |           |                 |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 19.9961 ppb<br>v/v  |
|                    |                     |           |                 |                      |                     |              | 1,1,2-Trichloroethane          | 19.9961 ppb<br>v/v  |
|                    |                     |           |                 |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb<br>v/v  |
|                    |                     |           |                 |                      |                     |              | 1,1-Dichloroethane             | 19.9961 ppb<br>v/v  |
|                    |                     |           |                 |                      |                     |              | 1,1-Dichloroethene             | 19.9961 ppb<br>v/v  |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                 |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride             | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 39.9922 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                   | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID            | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|-----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                       |          |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                       |          |           |                  |                      |                     |              | Tetrachloroethene              | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Tetrahydrofuran                | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Toluene                        | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichloroethene                | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Trichlorofluoromethane         | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Undecane                       | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl acetate                  | 19.9961 ppb v/v |
|                       |          |           |                  |                      |                     |              | Vinyl chloride                 | 19.9961 ppb v/v |
|                       |          |           |                  |                      | ATTO15EthCALw_00101 | 1237 mL      | Ethanol                        | 39.9987 ppb v/v |
| ..ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Butadiene                  | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene            | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 1,4-Dioxane                    | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane         | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Chlorotoluene                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 2-Methylbutane                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 3-Chloropropene                | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Ethyltoluene                 | 200 ppb v/v     |
|                       |          |           |                  |                      |                     |              | 4-Isopropyltoluene             | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                                      | 200 ppb v/v   |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                     |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                     |          |           |                      |                      |                     |              | n-Octane                                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | n-Propylbenzene                               | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Naphthalene                                   | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | o-Xylene                                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Pentane                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Propene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | sec-Butylbenzene                              | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Styrene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | tert-Butylbenzene                             | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Tetrachloroethene                             | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Tetrahydrofuran                               | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Toluene                                       | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Trichloroethene                               | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Trichlorofluoromethane                        | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Undecane                                      | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Vinyl acetate                                 | 200 ppb v/v   |
|                     |          |           |                      |                      |                     |              | Vinyl chloride                                | 200 ppb v/v   |
| ...ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 2-Methylbutane                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 3-Chloropropene                               | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                     |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Acetone                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Naphthalene                    | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | o-Xylene                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Pentane                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Propene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Styrene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| ..ATTO15EthCALw_00101    | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| .ATTO15EthCALw_00101     | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL3w_00206</b> | 12/07/18 | 09/10/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00103 | 386 mL       | 1,1,1-Trichloroethane          | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 4.99256 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 4.99256 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                     | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                       | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                    | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                      | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane                   | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 9.98513 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 4.99256 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |                    |
|            |          |           |               |                      |                |              | Methylene Chloride        | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                 | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene            | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                 | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene               | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                   | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                   | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                   | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Toluene                   | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichloroethene           | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichlorofluoromethane    | 4.99256 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                      |          |           |                  |                      |                     |              | Undecane                                      | 4.99256 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                                 | 4.99256 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                                | 4.99256 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00098 | 309 mL       | Ethanol                                       | 9.99159 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrylonitrile                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Alpha Methyl Styrene                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzene                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzyl chloride                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromodichloromethane                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoform                                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromomethane                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Carbon disulfide                              | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Propene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Toluene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
|                    |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Undecane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl acetate                                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetonitrile                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrolein                                      | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrylonitrile                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Alpha Methyl Styrene                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Pentane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Propene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Toluene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Trichloroethene                  | 1 ppm v/v     |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL3w_00210</b> | 12/23/18 | 11/23/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00106 | 386 mL       | 1,1,1-Trichloroethane          | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloropropane            | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3,5-Trimethylbenzene         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Butadiene                  | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Dichlorobenzene            | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dichlorobenzene            | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dioxane                    | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2,2,4-Trimethylpentane         | 4.99256 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2-Chlorotoluene                | 4.99256 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                    |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 4.99256 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 4.99256 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Cumene                           | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                      | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane                   | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 9.98513 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 4.99256 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 4.99256 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date        | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|----------------------|-----------------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                      |                 |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                      |                 |           |                  |                      |                     |              | n-Propylbenzene                | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Naphthalene                    | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | o-Xylene                       | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Pentane                        | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Propene                        | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | sec-Butylbenzene               | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Styrene                        | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | tert-Butyl alcohol             | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | tert-Butylbenzene              | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Tetrachloroethene              | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Tetrahydrofuran                | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Toluene                        | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Trichloroethene                | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Trichlorofluoromethane         | 4.99256 ppb v/v |
|                      |                 |           |                  |                      |                     |              | Undecane                       | 4.99256 ppb v/v |
| Vinyl acetate        | 4.99256 ppb v/v |           |                  |                      |                     |              |                                |                 |
| Vinyl chloride       | 4.99256 ppb v/v |           |                  |                      |                     |              |                                |                 |
|                      |                 |           |                  |                      | ATTO15EthCALw_00101 | 309 mL       | Ethanol                        | 9.99159 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19        | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |                 |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                          | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|----------------------------------|---------------|
|                    |          |           |                      |                      | Reagent ID     | Volume Added        |                                  |               |
|                    |          |           |                      |                      |                |                     | Isopropyl alcohol                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | m,p-Xylene                       | 400 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methyl methacrylate              | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methyl tert-butyl ether          | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methylene Chloride               | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butanol                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butylbenzene                   | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Decane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Heptane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Hexane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Nonane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Octane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Propylbenzene                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Naphthalene                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | o-Xylene                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Pentane                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Propene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | sec-Butylbenzene                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Styrene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | tert-Butyl alcohol               | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | tert-Butylbenzene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Tetrachloroethene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Tetrahydrofuran                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Toluene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichloroethene                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichlorofluoromethane           | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Undecane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl acetate                    | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl chloride                   | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethane               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethene               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dibromoethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene              | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetone                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 2 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                          | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|----------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                  |                 |
|                          |          |           |                           |                      |                     |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methyl methacrylate              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methyl tert-butyl ether          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methylene Chloride               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butanol                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butylbenzene                   | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Decane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Heptane                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Hexane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Nonane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Octane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Propylbenzene                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Naphthalene                      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | o-Xylene                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Pentane                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Propene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene                 | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Styrene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane           | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                    | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                   | 1 ppm v/v       |
| .ATTO15EthCALw_00101     | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                          | 500 ppb v/v     |
| .ATTO15EthCALs_00009     | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                          | 1 mL/mL         |
| <b>ATTO15CAL4w_00706</b> | 12/07/18 | 09/10/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00103 | 773 mL       | 1,1,1-Trichloroethane            | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane        | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane            | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane   | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane               | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene               | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                 |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 9.99806 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene                         | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                    | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                  | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                   | 9.99806 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                      |          |           |                  |                      |                     |              | Tetrachloroethene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Tetrahydrofuran                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Toluene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichloroethene                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichlorofluoromethane         | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Undecane                       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                  | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                 | 9.99806 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00098 | 464 mL       | Ethanol                        | 15.0036 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                    | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene             | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                                      | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                    |          |           |                      |                      |                     |              | n-Octane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Propylbenzene                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Naphthalene                                   | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | o-Xylene                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Pentane                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Propene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | sec-Butylbenzene                              | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Styrene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butylbenzene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrachloroethene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrahydrofuran                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Undecane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl acetate                                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Acetone                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Naphthalene                    | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | o-Xylene                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Pentane                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Propene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Styrene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL4w_00715</b> | 12/23/18 | 11/23/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00106 | 773 mL       | 1,1,1-Trichloroethane          | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 9.99806 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloropropane            | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |                 |
|            |          |           |               |                      |                |              | n-Butane                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | o-Xylene                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Pentane                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Propene                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Styrene                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Toluene                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Trichloroethene           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Trichlorofluoromethane    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Undecane                  | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                                 | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                                | 9.99806 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00101 | 464 mL       | Ethanol                                       | 15.0036 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrylonitrile                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Alpha Methyl Styrene                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzene                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzyl chloride                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromodichloromethane                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoform                                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromomethane                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Carbon disulfide                              | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Carbon tetrachloride                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chlorobenzene                                 | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Propene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Toluene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Trichloroethene                  | 200 ppb v/v   |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
|                    |          |           |                      |                      |                |                     | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Undecane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl acetate                                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetonitrile                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrolein                                      | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrylonitrile                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Alpha Methyl Styrene                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Pentane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Propene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Toluene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Trichloroethene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Trichlorofluoromethane           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Undecane                         | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| .ATTO15EthCALw_00101     | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL5w_00076</b> | 12/07/18 | 09/10/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00103 | 1160 mL      | 1,1,1-Trichloroethane          | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dibromoethane              | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorobenzene            | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloroethane             | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichloropropane            | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3,5-Trimethylbenzene         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Butadiene                  | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,3-Dichlorobenzene            | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dichlorobenzene            | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,4-Dioxane                    | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2,2,4-Trimethylpentane         | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2-Chlorotoluene                | 15.0036 ppb v/v |
|                          |          |           |                           |                      |                     |              | 2-Methylbutane                 | 15.0036 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 15.0036 ppb v/v |
|            |          |           |               |                      |                |              | Cumene  | 15.0036 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Cyclohexane                         | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromomethane                      | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dodecane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                       | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl ether                         | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 30.0071 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                            | 15.0036 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 15.0036 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                      |          |           |                  |                      |                     |              | Naphthalene                    | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | o-Xylene                       | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Pentane                        | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Propene                        | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | sec-Butylbenzene               | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Styrene                        | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | tert-Butyl alcohol             | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | tert-Butylbenzene              | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Tetrachloroethene              | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Tetrahydrofuran                | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Toluene                        | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichloroethene                | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichlorofluoromethane         | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Undecane                       | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                  | 15.0036 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                 | 15.0036 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00098 | 620 mL       | Ethanol                        | 20.0479 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                          | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|----------------------------------|---------------|
|                    |          |           |                      |                      | Reagent ID          | Volume Added |                                  |               |
|                    |          |           |                      |                      |                     |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Methyl methacrylate              | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Methylene Chloride               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Butane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Butanol                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Butylbenzene                   | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Decane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Heptane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Hexane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Nonane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Octane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | n-Propylbenzene                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Naphthalene                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | o-Xylene                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Pentane                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Propene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | sec-Butylbenzene                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Styrene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butyl alcohol               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butylbenzene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrachloroethene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrahydrofuran                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Toluene                          | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichloroethene                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichlorofluoromethane           | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Undecane                         | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl acetate                    | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl chloride                   | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane   | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethane               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethene               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dibromoethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene              | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloroethane               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloropropane              | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetone                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                          | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|----------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                  |                 |
|                          |          |           |                           |                      |                     |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methyl methacrylate              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methyl tert-butyl ether          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Methylene Chloride               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butanol                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butylbenzene                   | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Decane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Heptane                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Hexane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Nonane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Octane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Propylbenzene                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Naphthalene                      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | o-Xylene                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Pentane                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Propene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene                 | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Styrene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                          | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane           | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                    | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                   | 1 ppm v/v       |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                          | 500 ppb v/v     |
| .ATTO15EthCALs_00009     | 09/05/21 |           | Chem Service, Lot 5301900 |                      |                     |              | Ethanol                          | 1 mL/mL         |
| <b>ATTO15CAL6w_00158</b> | 12/07/18 | 09/11/18  | Nitrogen, Lot 1           | 15.463 L             | ATTO15CALSTKi_00103 | 1546 mL      | 1,1,1-Trichloroethane            | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane        | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane            | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane   | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane               | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene               | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene           | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                 |
|            |          |           |               |                      |                |              | Benzene                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride             | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 19.9961 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 39.9922 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene                   | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                      |          |           |                  |                      |                     |              | Tetrahydrofuran                               | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Toluene                                       | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene                      | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene                     | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichloroethene                               | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichlorofluoromethane                        | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Undecane                                      | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                                 | 19.9961 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                                | 19.9961 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00098 | 1237 mL      | Ethanol                                       | 39.9987 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Acetonitrile                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                    |          |           |                      |                      |                     |              | o-Xylene                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Pentane                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Propene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | sec-Butylbenzene                              | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Styrene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butylbenzene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrachloroethene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrahydrofuran                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Undecane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl acetate                                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acetonitrile                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acrolein                                      | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Acrylonitrile                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Pentane                          | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |                     | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|---------------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added        |                                |                 |
|                          |          |           |                           |                      |                     |                     | Propene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | sec-Butylbenzene               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Styrene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | tert-Butyl alcohol             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | tert-Butylbenzene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Tetrachloroethene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Tetrahydrofuran                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Toluene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | trans-1,2-Dichloroethene       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | trans-1,3-Dichloropropene      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Trichloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |                     | Vinyl chloride                 | 1 ppm v/v       |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL            | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      |                     | (Purchased Reagent) | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL6w_00161</b> | 12/23/18 | 11/23/18  | Nitrogen, Lot 1           | 15.463 L             | ATTO15CALSTKi_00106 | 1546 mL             | 1,1,1-Trichloroethane          | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,1,2,2-Tetrachloroethane      | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,1,2-Trichloroethane          | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,1,2-Trichlorotrifluoroethane | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,1-Dichloroethane             | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,1-Dichloroethene             | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2,3-Trichlorobenzene         | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2,3-Trichloropropane         | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2,4-Trichlorobenzene         | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2,4-Trimethylbenzene         | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2-Dibromoethane              | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2-Dichlorobenzene            | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2-Dichloroethane             | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2-Dichloropropane            | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,2-Dichlorotetrafluoroethane  | 19.9961 ppb v/v |
|                          |          |           |                           |                      |                     |                     | 1,3,5-Trimethylbenzene         | 19.9961 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 19.9961 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Chlorodifluoromethane               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane                       | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene              | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cumene                              | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cyclohexane                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromomethane                      | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dodecane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                       | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethyl ether                         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 39.9922 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butanol                           | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |                    |
|            |          |           |               |                      |                |              | n-Butylbenzene            | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Decane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                 | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Nonane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Octane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Naphthalene               | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | o-Xylene                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Pentane                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Propene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Styrene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Toluene                   | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichloroethene           | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Trichlorofluoromethane    | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Undecane                  | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Vinyl acetate             | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Vinyl chloride            | 19.9961 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                      |          |           |                  |                      | ATTO15EthCALw_00101 | 1237 mL      | Ethanol                                       | 39.9987 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrylonitrile                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Alpha Methyl Styrene                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzene                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Benzyl chloride                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromodichloromethane                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromoform                                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Bromomethane                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Carbon disulfide                              | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Carbon tetrachloride                          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chlorobenzene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chlorodifluoromethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chloroethane                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chloroform                                    | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Chloromethane                                 | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Propene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Toluene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Trichloroethene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Trichlorofluoromethane           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Undecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Vinyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Vinyl chloride                   | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acetonitrile                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrolein                                      | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Acrylonitrile                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Alpha Methyl Styrene                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chloroform                                    | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | Chloromethane                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | cis-1,3-Dichloropropene                       | 1 ppm v/v     |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID            | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |                     | Analyte                          | Concentration |
|-----------------------|----------|-----------|---------------------------|----------------------|---------------------|---------------------|----------------------------------|---------------|
|                       |          |           |                           |                      | Reagent ID          | Volume Added        |                                  |               |
|                       |          |           |                           |                      |                     |                     | Cumene                           | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Cyclohexane                      | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Dibromochloromethane             | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Dibromomethane                   | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Dichlorodifluoromethane          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Dodecane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Ethyl acetate                    | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Ethyl ether                      | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Ethylbenzene                     | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Hexachlorobutadiene              | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Isopropyl alcohol                | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | m,p-Xylene                       | 2 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Methyl methacrylate              | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Methyl tert-butyl ether          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Methylene Chloride               | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Butane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Butanol                        | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Butylbenzene                   | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Decane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Heptane                        | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Hexane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Nonane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Octane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | n-Propylbenzene                  | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Naphthalene                      | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | o-Xylene                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Pentane                          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Propene                          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | sec-Butylbenzene                 | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Styrene                          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | tert-Butyl alcohol               | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | tert-Butylbenzene                | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Tetrachloroethene                | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Tetrahydrofuran                  | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Toluene                          | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | trans-1,2-Dichloroethene         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | trans-1,3-Dichloropropene        | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Trichloroethene                  | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Trichlorofluoromethane           | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Undecane                         | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Vinyl acetate                    | 1 ppm v/v     |
|                       |          |           |                           |                      |                     |                     | Vinyl chloride                   | 1 ppm v/v     |
| .ATTO15EthCALw_00101  | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL            | Ethanol                          | 500 ppb v/v   |
| ..ATTO15EthCALs_00009 | 09/05/21 |           | Chem Service, Lot 5301900 |                      |                     | (Purchased Reagent) | Ethanol                          | 1 mL/mL       |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date        | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|-----------------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |                 |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
| <b>ATTO15CAL7w_00079</b> | 12/07/18        | 09/10/18  | Nitrogen, Lot 12 | 15.463 L             | ATTO15CALSTKi_00103 | 3092 mL      | 1,1,1-Trichloroethane          | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,1-Dichloroethane             | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,1-Dichloroethene             | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2-Dibromoethane              | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2-Dichloroethane             | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2-Dichloropropane            | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene         | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,3-Butadiene                  | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,3-Dichlorobenzene            | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,4-Dichlorobenzene            | 39.9922 ppb v/v |
|                          |                 |           |                  |                      |                     |              | 1,4-Dioxane                    | 39.9922 ppb v/v |
| 2,2,4-Trimethylpentane   | 39.9922 ppb v/v |           |                  |                      |                     |              |                                |                 |
| 2-Chlorotoluene          | 39.9922 ppb v/v |           |                  |                      |                     |              |                                |                 |
| 2-Methylbutane           | 39.9922 ppb v/v |           |                  |                      |                     |              |                                |                 |
| 3-Chloropropene          | 39.9922 ppb v/v |           |                  |                      |                     |              |                                |                 |
| 4-Ethyltoluene           | 39.9922 ppb v/v |           |                  |                      |                     |              |                                |                 |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                                    | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Cumene  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 39.9922 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Dibromomethane                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 79.9845 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | o-Xylene                         | 39.9922 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |                                |                 |
|                      |          |           |                  |                      |                     |              | Pentane                        | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Propene                        | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | sec-Butylbenzene               | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Styrene                        | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | tert-Butyl alcohol             | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | tert-Butylbenzene              | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Tetrachloroethene              | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Tetrahydrofuran                | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Toluene                        | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene       | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene      | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichloroethene                | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichlorofluoromethane         | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Undecane                       | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                  | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                 | 39.9922 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00098 | 3092 mL      | Ethanol                        | 99.9806 ppb v/v |
| .ATTO15CALSTKi_00103 | 12/07/18 | 09/07/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrolein                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                        | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|--------------------------------|---------------|
|                    |          |           |                      |                      | Reagent ID     | Volume Added        |                                |               |
|                    |          |           |                      |                      |                |                     | Methyl methacrylate            | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methyl tert-butyl ether        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Methylene Chloride             | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butanol                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Butylbenzene                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Decane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Heptane                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Hexane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Nonane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Octane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | n-Propylbenzene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Naphthalene                    | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | o-Xylene                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Pentane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Propene                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | sec-Butylbenzene               | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Styrene                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | tert-Butyl alcohol             | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | tert-Butylbenzene              | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Tetrachloroethene              | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Tetrahydrofuran                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Toluene                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene      | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichloroethene                | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Trichlorofluoromethane         | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Undecane                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl acetate                  | 200 ppb v/v   |
|                    |          |           |                      |                      |                |                     | Vinyl chloride                 | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane      | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane          | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1,2-Trichlorotrifluoroethane | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethane             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,1-Dichloroethene             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dibromoethane              | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloroethane             | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichloropropane            | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,2-Dichlorotetrafluoroethane  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene         | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Butadiene                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene            | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetone                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrolein                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzene                                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID               | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                        | Concentration   |
|--------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|--------------------------------|-----------------|
|                          |          |           |                           |                      | Reagent ID          | Volume Added |                                |                 |
|                          |          |           |                           |                      |                     |              | Methylene Chloride             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butanol                      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Butylbenzene                 | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Decane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Heptane                      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Hexane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Nonane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Octane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | n-Propylbenzene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Naphthalene                    | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | o-Xylene                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Pentane                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Propene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | sec-Butylbenzene               | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Styrene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butyl alcohol             | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | tert-Butylbenzene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrachloroethene              | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Tetrahydrofuran                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Toluene                        | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene      | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichloroethene                | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Trichlorofluoromethane         | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Undecane                       | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl acetate                  | 1 ppm v/v       |
|                          |          |           |                           |                      |                     |              | Vinyl chloride                 | 1 ppm v/v       |
| .ATTO15EthCALw_00098     | 12/10/18 | 09/10/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                        | 500 ppb v/v     |
| ..ATTO15EthCALs_00009    | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                        | 1 mL/mL         |
| <b>ATTO15CAL7w_00080</b> | 12/23/18 | 11/23/18  | Nitrogen, Lot 12          | 15.463 L             | ATTO15CALSTKi_00106 | 3092 mL      | 1,1,1-Trichloroethane          | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane      | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane          | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethane             | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,1-Dichloroethene             | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichlorobenzene         | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,3-Trichloropropane         | 39.9922 ppb v/v |
|                          |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene         | 39.9922 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 2-Methylbutane                                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acetonitrile                                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acrolein                                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Acrylonitrile                                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Alpha Methyl Styrene                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 39.9922 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |                 |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide            | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chlorobenzene               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane       | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dibromomethane              | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane     | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Dodecane                    | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl acetate               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethyl ether                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol           | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                  | 79.9845 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butanol                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Decane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Nonane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Octane                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Naphthalene                      | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | o-Xylene                         | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Pentane                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Propene                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Styrene                          | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 39.9922 ppb v/v |
|            |          |           |               |                      |                |              | Toluene                          | 39.9922 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|---------------------|--------------|---|-----------------|
|                      |          |           |                  |                      | Reagent ID          | Volume Added |   |                 |
|                      |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene                      | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene                     | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichloroethene                               | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Trichlorofluoromethane                        | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Undecane                                      | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl acetate                                 | 39.9922 ppb v/v |
|                      |          |           |                  |                      |                     |              | Vinyl chloride                                | 39.9922 ppb v/v |
|                      |          |           |                  |                      | ATTO15EthCALw_00101 | 3092 mL      | Ethanol                                       | 99.9806 ppb v/v |
| .ATTO15CALSTKi_00106 | 02/01/19 | 11/21/18  | Nitrogen, Lot 13 | 37.5 L               | ATTO15CALs_00031    | 7500 mL      | 1,1,1-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane                         | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,1-Dichloroethene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,3-Trichloropropane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dibromoethane                             | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloroethane                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichloropropane                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3,5-Trimethylbenzene                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Butadiene                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,3-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dichlorobenzene                           | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 1,4-Dioxane                                   | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2,2,4-Trimethylpentane                        | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Chlorotoluene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 2-Methylbutane                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 3-Chloropropene                               | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Ethyltoluene                                | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Isopropyltoluene                            | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetone                                       | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acetonitrile                                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrolein                                      | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Acrylonitrile                                 | 200 ppb v/v     |
|                      |          |           |                  |                      |                     |              | Alpha Methyl Styrene                          | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Benzene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromomethane                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dodecane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethyl ether                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butanol                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Decane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Nonane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Octane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Pentane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Propene                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                       | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                    |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                    |          |           |                      |                      |                     |              | Styrene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | tert-Butylbenzene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrachloroethene                             | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Tetrahydrofuran                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Undecane                                      | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl acetate                                 | 200 ppb v/v   |
|                    |          |           |                      |                      |                     |              | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15CALs_00031 | 02/01/19 |           | Linde, Lot CC-133603 |                      | (Purchased Reagent) |              | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 2-Methylbutane                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acetonitrile                                  | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acrolein                                      | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Acrylonitrile                                 | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Alpha Methyl Styrene                          | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                      |                      |                     |              | Benzyl chloride                               | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Bromodichloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromoform                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Bromomethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon disulfide                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Carbon tetrachloride             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroethane                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloroform                       | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Chloromethane                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cumene                           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromomethane                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dodecane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl acetate                    | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethyl ether                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butanol                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Decane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Nonane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Octane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Pentane                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Propene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID              | Exp Date | Prep Date | Dilutant Used             | Reagent Final Volume | Parent Reagent      |              | Analyte                         | Concentration   |
|-------------------------|----------|-----------|---------------------------|----------------------|---------------------|--------------|---------------------------------|-----------------|
|                         |          |           |                           |                      | Reagent ID          | Volume Added |                                 |                 |
|                         |          |           |                           |                      |                     |              | tert-Butylbenzene               | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Tetrachloroethene               | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Tetrahydrofuran                 | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Toluene                         | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | trans-1,2-Dichloroethene        | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | trans-1,3-Dichloropropene       | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Trichloroethene                 | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Trichlorofluoromethane          | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Undecane                        | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Vinyl acetate                   | 1 ppm v/v       |
|                         |          |           |                           |                      |                     |              | Vinyl chloride                  | 1 ppm v/v       |
| .ATTO15EthCALw_00101    | 02/23/19 | 11/21/18  | Nitrogen, Lot 12          | 37.5 ppb             | ATTO15EthCALs_00009 | 18.75 uL     | Ethanol                         | 500 ppb v/v     |
| ..ATTO15EthCALs_00009   | 09/05/21 |           | Chem Service, Lot 5301900 |                      | (Purchased Reagent) |              | Ethanol                         | 1 mL/mL         |
| <b>ATTO15CISs_00010</b> |          |           |                           |                      |                     |              | 1,2-Dichloroethene, Total       |                 |
|                         |          |           |                           |                      |                     |              | 1,4-Difluorobenzene             | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | BFB                             | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Chlorobenzene-d5                | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Chlorobromomethane              | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Tentatively Identified Compound |                 |
|                         |          |           |                           |                      |                     |              | Total Alkanes                   |                 |
|                         |          |           |                           |                      |                     |              | Xylenes, Total                  |                 |
| <b>ATTO15GIS_00015</b>  |          |           |                           |                      |                     |              | 1,2-Dichloroethene, Total       |                 |
|                         |          |           |                           |                      |                     |              | 1,4-Difluorobenzene             | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | BFB                             | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Chlorobenzene-d5                | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Chlorobromomethane              | 100 ppb v/v     |
|                         |          |           |                           |                      |                     |              | Tentatively Identified Compound |                 |
|                         |          |           |                           |                      |                     |              | Total Alkanes                   |                 |
|                         |          |           |                           |                      |                     |              | Xylenes, Total                  |                 |
| <b>ATTO15LCSW_00787</b> | 12/04/18 | 09/21/18  | Nitrogen, Lot 13          | 15.463 L             | ATTO15LCSSTki_00096 | 773 mL       | 1,1,1-Trichloroethane           | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,1,2,2-Tetrachloroethane       | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,1,2-Trichloroethane           | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,1,2-Trichlorotrifluoroethane  | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,1-Dichloroethane              | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,1-Dichloroethene              | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,2,4-Trichlorobenzene          | 9.99806 ppb v/v |
|                         |          |           |                           |                      |                     |              | 1,2,4-Trimethylbenzene          | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 9.99806 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Chlorobenzene                       | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane               | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                        | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                          | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane                       | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene              | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cumene                              | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cyclohexane                         | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 9.99806 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent   |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID       | Volume Added |                                |                 |
|                      |          |           |                  |                      |                  |              | Naphthalene                    | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | o-Xylene                       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | sec-Butylbenzene               | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Styrene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butyl alcohol             | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butylbenzene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrachloroethene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrahydrofuran                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Toluene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,2-Dichloroethene       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,3-Dichloropropene      | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichloroethene                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichlorofluoromethane         | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Vinyl chloride                 | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00096 | 12/04/18 | 09/04/18  | Nitrogen, Lot 12 | 37.5 L               | ATTO15LCSS_00024 | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Butadiene                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dioxane                    | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2,2,4-Trimethylpentane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2-Chlorotoluene                | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 3-Chloropropene                | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                               | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used                | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|------------------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                              |                      | Reagent ID     | Volume Added        |   |               |
|                    |          |           |                              |                      |                |                     | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15LCSs_00024 | 02/01/19 |           | Spectra Gases, Lot CC-250179 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroform                                    | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloromethane                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Cumene  | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID              | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                          | Concentration   |
|-------------------------|----------|-----------|------------------|----------------------|---------------------|--------------|----------------------------------|-----------------|
|                         |          |           |                  |                      | Reagent ID          | Volume Added |                                  |                 |
|                         |          |           |                  |                      |                     |              | Cyclohexane                      | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Dibromochloromethane             | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Dichlorodifluoromethane          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Ethylbenzene                     | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Hexachlorobutadiene              | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Isopropyl alcohol                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | m,p-Xylene                       | 2 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl methacrylate              | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl tert-butyl ether          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methylene Chloride               | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Butane                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Butylbenzene                   | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Heptane                        | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Hexane                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Propylbenzene                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Naphthalene                      | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | o-Xylene                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | sec-Butylbenzene                 | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Styrene                          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | tert-Butyl alcohol               | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | tert-Butylbenzene                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Tetrachloroethene                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Tetrahydrofuran                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Toluene                          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene        | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Trichloroethene                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Trichlorofluoromethane           | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Vinyl chloride                   | 1 ppm v/v       |
| <b>ATTO15LCSW_00790</b> | 12/27/18 | 11/28/18  | Nitrogen, Lot 13 | 15.463 L             | ATTO15LCSSTki_00097 | 773 mL       | 1,1,1-Trichloroethane            | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane        | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane            | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane   | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1-Dichloroethane               | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1-Dichloroethene               | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene           | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene           | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 9.99806 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |                 |
|            |          |           |               |                      |                |              | Chlorobenzene                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroethane                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloroform                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Chloromethane                    | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cumene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Cyclohexane                      | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 19.9961 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Methylene Chloride               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Butane                         | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Heptane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Hexane                         | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent   |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID       | Volume Added |                                |                 |
|                      |          |           |                  |                      |                  |              | Naphthalene                    | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | o-Xylene                       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | sec-Butylbenzene               | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Styrene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butyl alcohol             | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butylbenzene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrachloroethene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrahydrofuran                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Toluene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,2-Dichloroethene       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,3-Dichloropropene      | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichloroethene                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichlorofluoromethane         | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Vinyl chloride                 | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00097 | 12/27/18 | 11/27/18  | Nitrogen, Lot 12 | 37.5 L               | ATTO15LCSS_00024 | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Butadiene                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dioxane                    | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2,2,4-Trimethylpentane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2-Chlorotoluene                | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 3-Chloropropene                | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                               | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used                | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|------------------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                              |                      | Reagent ID     | Volume Added        |   |               |
|                    |          |           |                              |                      |                |                     | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15LCSs_00024 | 02/01/19 |           | Spectra Gases, Lot CC-250179 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroform                                    | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloromethane                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Cumene  | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID              | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent      |              | Analyte                          | Concentration   |
|-------------------------|----------|-----------|------------------|----------------------|---------------------|--------------|----------------------------------|-----------------|
|                         |          |           |                  |                      | Reagent ID          | Volume Added |                                  |                 |
|                         |          |           |                  |                      |                     |              | Cyclohexane                      | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Dibromochloromethane             | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Dichlorodifluoromethane          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Ethylbenzene                     | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Hexachlorobutadiene              | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Isopropyl alcohol                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | m,p-Xylene                       | 2 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl methacrylate              | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methyl tert-butyl ether          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Methylene Chloride               | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Butane                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Butylbenzene                   | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Heptane                        | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Hexane                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | n-Propylbenzene                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Naphthalene                      | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | o-Xylene                         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | sec-Butylbenzene                 | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Styrene                          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | tert-Butyl alcohol               | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | tert-Butylbenzene                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Tetrachloroethene                | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Tetrahydrofuran                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Toluene                          | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | trans-1,2-Dichloroethene         | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | trans-1,3-Dichloropropene        | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Trichloroethene                  | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Trichlorofluoromethane           | 1 ppm v/v       |
|                         |          |           |                  |                      |                     |              | Vinyl chloride                   | 1 ppm v/v       |
| <b>ATTO15LCSW_00791</b> | 12/27/18 | 12/05/18  | Nitrogen, Lot 13 | 15.463 L             | ATTO15LCSSTki_00097 | 773 mL       | 1,1,1-Trichloroethane            | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2,2-Tetrachloroethane        | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2-Trichloroethane            | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1,2-Trichlorotrifluoroethane   | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1-Dichloroethane               | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,1-Dichloroethene               | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,2,4-Trichlorobenzene           | 9.99806 ppb v/v |
|                         |          |           |                  |                      |                     |              | 1,2,4-Trimethylbenzene           | 9.99806 ppb v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration   |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|-----------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |                 |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                             | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,2-Dichlorotetrafluoroethane                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Butadiene                                 | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                           | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 1,4-Dioxane                                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2,2,4-Trimethylpentane                        | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 3-Chloropropene                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Acetone                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzene                                       | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromoform                                     | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Bromomethane                                  | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 9.99806 ppb v/v |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 9.99806 ppb v/v |



REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                             | Concentration      |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------------------|--------------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                     |                    |
|            |          |           |               |                      |                |              | Chlorobenzene                       | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chlorodifluoromethane               | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroethane                        | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloroform                          | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Chloromethane                       | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene              | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cumene                              | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Cyclohexane                         | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dibromochloromethane                | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Ethylbenzene                        | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Isopropyl alcohol                   | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | m,p-Xylene                          | 19.9961 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone<br>(2-Hexanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone<br>(2-Butanone) | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl methacrylate                 | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether             | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | Methylene Chloride                  | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Butylbenzene                      | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Heptane                           | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Hexane                            | 9.99806 ppb<br>v/v |
|            |          |           |               |                      |                |              | n-Propylbenzene                     | 9.99806 ppb<br>v/v |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID           | Exp Date | Prep Date | Dilutant Used    | Reagent Final Volume | Parent Reagent   |              | Analyte                        | Concentration   |
|----------------------|----------|-----------|------------------|----------------------|------------------|--------------|--------------------------------|-----------------|
|                      |          |           |                  |                      | Reagent ID       | Volume Added |                                |                 |
|                      |          |           |                  |                      |                  |              | Naphthalene                    | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | o-Xylene                       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | sec-Butylbenzene               | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Styrene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butyl alcohol             | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | tert-Butylbenzene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrachloroethene              | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Tetrahydrofuran                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Toluene                        | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,2-Dichloroethene       | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | trans-1,3-Dichloropropene      | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichloroethene                | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Trichlorofluoromethane         | 9.99806 ppb v/v |
|                      |          |           |                  |                      |                  |              | Vinyl chloride                 | 9.99806 ppb v/v |
| .ATTO15LCSSTKi_00097 | 12/27/18 | 11/27/18  | Nitrogen, Lot 12 | 37.5 L               | ATTO15LCSS_00024 | 7500 mL      | 1,1,1-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2,2-Tetrachloroethane      | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichloroethane          | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1,2-Trichlorotrifluoroethane | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,1-Dichloroethene             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trichlorobenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2,4-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dibromoethane              | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloroethane             | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichloropropane            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,2-Dichlorotetrafluoroethane  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3,5-Trimethylbenzene         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Butadiene                  | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,3-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dichlorobenzene            | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 1,4-Dioxane                    | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2,2,4-Trimethylpentane         | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 2-Chlorotoluene                | 200 ppb v/v     |
|                      |          |           |                  |                      |                  |              | 3-Chloropropene                | 200 ppb v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                       | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 4-Ethyltoluene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Isopropyltoluene                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Acetone                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Benzyl chloride                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromodichloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoethene (Vinyl Bromide)                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromoform                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Bromomethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon disulfide                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Carbon tetrachloride                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorobenzene                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chlorodifluoromethane                         | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroethane                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloroform                                    | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Chloromethane                                 | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                        | 200 ppb v/v   |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cumene  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Cyclohexane                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dibromochloromethane                          | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Ethylbenzene                                  | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Isopropyl alcohol                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | m,p-Xylene                                    | 400 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone)              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl methacrylate                           | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Methylene Chloride                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Butylbenzene                                | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Heptane                                     | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Hexane                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | n-Propylbenzene                               | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Naphthalene                                   | 200 ppb v/v   |
|            |          |           |               |                      |                |              | o-Xylene                                      | 200 ppb v/v   |
|            |          |           |               |                      |                |              | sec-Butylbenzene                              | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Styrene                                       | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butyl alcohol                            | 200 ppb v/v   |
|            |          |           |               |                      |                |              | tert-Butylbenzene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrachloroethene                             | 200 ppb v/v   |
|            |          |           |               |                      |                |              | Tetrahydrofuran                               | 200 ppb v/v   |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

| Reagent ID         | Exp Date | Prep Date | Dilutant Used                | Reagent Final Volume | Parent Reagent |                     | Analyte                                       | Concentration |
|--------------------|----------|-----------|------------------------------|----------------------|----------------|---------------------|---|---------------|
|                    |          |           |                              |                      | Reagent ID     | Volume Added        |   |               |
|                    |          |           |                              |                      |                |                     | Toluene                                       | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,2-Dichloroethene                      | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | trans-1,3-Dichloropropene                     | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichloroethene                               | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Trichlorofluoromethane                        | 200 ppb v/v   |
|                    |          |           |                              |                      |                |                     | Vinyl chloride                                | 200 ppb v/v   |
| ..ATTO15LCSs_00024 | 02/01/19 |           | Spectra Gases, Lot CC-250179 |                      |                | (Purchased Reagent) | 1,1,1-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2,2-Tetrachloroethane                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichloroethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1,2-Trichlorotrifluoroethane                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,1-Dichloroethene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trichlorobenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2,4-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dibromoethane                             | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloroethane                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichloropropane                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,2-Dichlorotetrafluoroethane                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3,5-Trimethylbenzene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Butadiene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,3-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dichlorobenzene                           | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 1,4-Dioxane                                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2,2,4-Trimethylpentane                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 2-Chlorotoluene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 3-Chloropropene                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Ethyltoluene                                | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Isopropyltoluene                            | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Acetone                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzene                                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Benzyl chloride                               | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromodichloromethane                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoethene (Vinyl Bromide)                   | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromoform                                     | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Bromomethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon disulfide                              | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Carbon tetrachloride                          | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorobenzene                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chlorodifluoromethane                         | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroethane                                  | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloroform                                    | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Chloromethane                                 | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,2-Dichloroethene                        | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | cis-1,3-Dichloropropene                       | 1 ppm v/v     |
|                    |          |           |                              |                      |                |                     | Cumene  | 1 ppm v/v     |

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

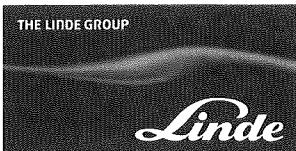
SDG No.: 200-46353-1

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                          | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|----------------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                                  |               |
|            |          |           |               |                      |                |              | Cyclohexane                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dibromochloromethane             | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Dichlorodifluoromethane          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Ethylbenzene                     | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Hexachlorobutadiene              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Isopropyl alcohol                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | m,p-Xylene                       | 2 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Butyl Ketone (2-Hexanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl Ethyl Ketone (2-Butanone) | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl methacrylate              | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Methylene Chloride               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Butylbenzene                   | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Heptane                        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Hexane                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | n-Propylbenzene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Naphthalene                      | 1 ppm v/v     |
|            |          |           |               |                      |                |              | o-Xylene                         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | sec-Butylbenzene                 | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Styrene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butyl alcohol               | 1 ppm v/v     |
|            |          |           |               |                      |                |              | tert-Butylbenzene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrachloroethene                | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Tetrahydrofuran                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Toluene                          | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene         | 1 ppm v/v     |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene        | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Trichloroethene                  | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Trichlorofluoromethane           | 1 ppm v/v     |
|            |          |           |               |                      |                |              | Vinyl chloride                   | 1 ppm v/v     |

Reagent

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**ATTO15CALs\_00031**



# ISO 17025 Certificate



## Certificate of Analysis



1140070  
ID: ATTO15CAL\_s\_00031  
Exp:02/01/19 Prp:W/3D Opr:02/27/19  
TO15 Calibration 1 Source T

**SHIPPED TO:**  
Test America Inc  
30 Community Drive Suite 11  
South Burlington, VT 05403

**PAGE:** 1 of 6  
**Report ID:** 23639  
**Revision:** 0

|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ANAB (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

### Linde Spectra Environmental Gases

This certificate may not be reproduced other than in full except with the prior written approval of the issuing laboratory.

### Linde North America, Inc.

80 Industrial Drive, Alpha, NJ 08865  
Phone: +1.908.329-9700 FAX: +1.908.329-9740  
www.lindeus.com





# ISO 17025 Certificate



## Certificate of Analysis

**SHIPPED TO:**  
 Test America Inc  
 30 Community Drive Suite 11  
 South Burlington, VT 05403

**PAGE:** 2 of 6  
**Report ID:** 23639  
**Revision:** 0

|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

| <u>COMPONENT</u>                | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Reported Conc</u> | <u>Uncertainty (k=2 @ 95%)</u> |
|---------------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| Propylene                       | 115-07-1          | 1.000 ppm             | 1.015 ppm            | ± 0.040 ppm                    |
| Chlorodifluoromethane           | 75-45-6           | 1.000 ppm             | 1.061 ppm            | ± 0.033 ppm                    |
| Freon-12                        | 75-71-8           | 1.000 ppm             | 1.057 ppm            | ± 0.013 ppm                    |
| Chloromethane                   | 74-87-3           | 1.000 ppm             | 0.986 ppm            | ± 0.033 ppm                    |
| Freon-114                       | 76-14-2           | 1.000 ppm             | 1.059 ppm            | ± 0.010 ppm                    |
| Vinyl Chloride                  | 75-01-4           | 1.000 ppm             | 0.997 ppm            | ± 0.014 ppm                    |
| 1,3-Butadiene                   | 106-99-0          | 1.000 ppm             | 0.978 ppm            | ± 0.010 ppm                    |
| Methanol (No Stability Guarante | 67-56-1           | 1.000 ppm             | 0.962 ppm            | ± 0.096 ppm                    |
| n-Butane                        | 106-97-8          | 1.000 ppm             | 1.017 ppm            | ± 0.005 ppm                    |
| Bromomethane                    | 74-83-9           | 1.000 ppm             | 1.019 ppm            | ± 0.040 ppm                    |
| Chloroethane                    | 75-00-3           | 1.000 ppm             | 1.042 ppm            | ± 0.012 ppm                    |
| Vinyl Bromide                   | 593-60-2          | 1.000 ppm             | 0.993 ppm            | ± 0.007 ppm                    |
| Acetonitrile                    | 75-05-8           | 1.000 ppm             | 0.978 ppm            | ± 0.004 ppm                    |
| Acrolein                        | 107-02-8          | 1.000 ppm             | 0.961 ppm            | ± 0.093 ppm                    |
| Isopentane                      | 78-78-4           | 1.000 ppm             | 1.031 ppm            | ± 0.004 ppm                    |
| Acetone                         | 67-64-1           | 1.000 ppm             | 1.011 ppm            | ± 0.004 ppm                    |
| Freon-11                        | 75-69-4           | 1.000 ppm             | 1.042 ppm            | ± 0.011 ppm                    |
| Isopropyl Alcohol               | 67-63-0           | 1.000 ppm             | 1.025 ppm            | ± 0.004 ppm                    |
| Acrylonitrile                   | 107-13-1          | 1.000 ppm             | 1.014 ppm            | ± 0.004 ppm                    |
| n-Pentane                       | 109-66-0          | 1.000 ppm             | 1.016 ppm            | ± 0.004 ppm                    |
| Ethyl Ether                     | 60-29-7           | 1.000 ppm             | 1.011 ppm            | ± 0.004 ppm                    |
| 1,1-Dichloroethene              | 75-35-4           | 1.000 ppm             | 1.031 ppm            | ± 0.004 ppm                    |
| Carbon Disulfide                | 75-15-0           | 1.000 ppm             | 1.030 ppm            | ± 0.004 ppm                    |
| Methylene Chloride              | 75-09-2           | 1.000 ppm             | 1.042 ppm            | ± 0.004 ppm                    |
| Tert-Butanol                    | 75-65-0           | 1.000 ppm             | 1.094 ppm            | ± 0.004 ppm                    |
| 3-Chloropropene                 | 107-05-1          | 1.000 ppm             | 1.069 ppm            | ± 0.004 ppm                    |
| Freon-113                       | 76-13-1           | 1.000 ppm             | 1.068 ppm            | ± 0.004 ppm                    |

**Linde Spectra Environmental Gases**

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# Certificate of Analysis

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30 Community Drive Suite 11  
South Burlington, VT 05403

**PAGE:**

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Report ID:

23639

Revision:

0

|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

| <u>COMPONENT</u>         | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Reported Conc</u> | <u>Uncertainty (k=2 @ 95%)</u> |
|--------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| Trans-1,2-Dichloroethene | 156-60-5          | 1.000 ppm             | 1.028 ppm            | ± 0.004 ppm                    |
| 1,1-Dichloroethane       | 75-34-3           | 1.000 ppm             | 1.029 ppm            | ± 0.004 ppm                    |
| Methyl Tert Butyl Ether  | 1634-04-4         | 1.000 ppm             | 1.049 ppm            | ± 0.004 ppm                    |
| Vinyl Acetate            | 108-05-4          | 1.000 ppm             | 1.082 ppm            | ± 0.004 ppm                    |
| Methyl Ethyl Ketone      | 78-93-3           | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| Cis-1,2-Dichloroethene   | 156-59-2          | 1.000 ppm             | 1.017 ppm            | ± 0.004 ppm                    |
| Hexane                   | 110-54-3          | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| Chloroform               | 67-66-3           | 1.000 ppm             | 1.040 ppm            | ± 0.004 ppm                    |
| Ethyl Acetate            | 141-78-6          | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| Tetrahydrofuran          | 109-99-9          | 1.000 ppm             | 0.973 ppm            | ± 0.004 ppm                    |
| 1,2-Dichloroethane       | 107-06-2          | 1.000 ppm             | 1.041 ppm            | ± 0.004 ppm                    |
| 1,1,1-Trichloroethane    | 71-55-6           | 1.000 ppm             | 1.033 ppm            | ± 0.004 ppm                    |
| Benzene                  | 71-43-2           | 1.000 ppm             | 1.046 ppm            | ± 0.004 ppm                    |
| 1-Butanol                | 71-36-3           | 1.000 ppm             | 0.955 ppm            | ± 0.029 ppm                    |
| Carbon Tetrachloride     | 56-23-5           | 1.000 ppm             | 1.007 ppm            | ± 0.004 ppm                    |
| Cyclohexane              | 110-82-7          | 1.000 ppm             | 1.006 ppm            | ± 0.004 ppm                    |
| Dibromomethane           | 74-95-3           | 1.000 ppm             | 1.037 ppm            | ± 0.004 ppm                    |
| 1,2-Dichloropropane      | 78-87-5           | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| Trichloroethylene        | 79-01-6           | 1.000 ppm             | 1.029 ppm            | ± 0.004 ppm                    |
| Bromodichloromethane     | 75-27-4           | 1.000 ppm             | 1.032 ppm            | ± 0.004 ppm                    |
| 1,4-Dioxane              | 123-91-1          | 1.000 ppm             | 1.032 ppm            | ± 0.004 ppm                    |
| 2,2,4-Trimethylpentane   | 540-84-1          | 1.000 ppm             | 1.012 ppm            | ± 0.004 ppm                    |
| Methyl Methacrylate      | 80-62-6           | 1.000 ppm             | 1.014 ppm            | ± 0.004 ppm                    |
| Heptane                  | 142-82-5          | 1.000 ppm             | 1.039 ppm            | ± 0.004 ppm                    |
| Methylcyclohexane        | 108-87-2          | 1.000 ppm             | 1.035 ppm            | ± 0.004 ppm                    |
| Cis-1,3-Dichloropropene  | 10061-01-5        | 1.000 ppm             | 1.028 ppm            | ± 0.028 ppm                    |
| Methyl Isobutyl Ketone   | 108-10-1          | 1.000 ppm             | 1.013 ppm            | ± 0.004 ppm                    |

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**PAGE:**

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Report ID:

23639

Revision:

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|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

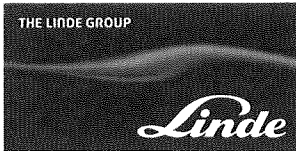
| <u>COMPONENT</u>                | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Reported Conc</u> | <u>Uncertainty (k=2 @ 95%)</u> |
|---------------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| Trans-1,3-Dichloropropene       | 10061-02-6        | 1.000 ppm             | 0.985 ppm            | ± 0.028 ppm                    |
| 1,1,2-Trichloroethane           | 79-00-5           | 1.000 ppm             | 1.052 ppm            | ± 0.004 ppm                    |
| Toluene                         | 108-88-3          | 1.000 ppm             | 1.025 ppm            | ± 0.004 ppm                    |
| Methyl Butyl Ketone             | 591-78-6          | 1.000 ppm             | 1.033 ppm            | ± 0.004 ppm                    |
| Dibromochloromethane            | 124-48-1          | 1.000 ppm             | 1.060 ppm            | ± 0.004 ppm                    |
| 1,2-Dibromoethane               | 106-93-4          | 1.000 ppm             | 1.058 ppm            | ± 0.004 ppm                    |
| n-Octane                        | 111-65-9          | 1.000 ppm             | 1.034 ppm            | ± 0.004 ppm                    |
| Tetrachloroethylene             | 127-18-4          | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| Chlorobenzene                   | 108-90-7          | 1.000 ppm             | 1.052 ppm            | ± 0.004 ppm                    |
| Ethylbenzene                    | 100-41-4          | 1.000 ppm             | 1.025 ppm            | ± 0.004 ppm                    |
| p-xylene                        | 106-42-3          | 1.000 ppm             | 1.027 ppm            | ± 0.004 ppm                    |
| m-xylene                        | 108-38-3          | 1.000 ppm             | 1.031 ppm            | ± 0.004 ppm                    |
| Bromoform                       | 75-25-2           | 1.000 ppm             | 1.030 ppm            | ± 0.004 ppm                    |
| Styrene                         | 100-42-5          | 1.000 ppm             | 1.037 ppm            | ± 0.004 ppm                    |
| o-xylene                        | 95-47-6           | 1.000 ppm             | 1.036 ppm            | ± 0.004 ppm                    |
| 1,1,2,2-Tetrachloroethane       | 79-34-5           | 1.000 ppm             | 1.034 ppm            | ± 0.004 ppm                    |
| 1,2,3-Trichloropropane          | 96-18-4           | 1.000 ppm             | 1.051 ppm            | ± 0.004 ppm                    |
| Nonane                          | 111-84-2          | 1.000 ppm             | 1.051 ppm            | ± 0.004 ppm                    |
| Cumene                          | 98-82-8           | 1.000 ppm             | 1.041 ppm            | ± 0.004 ppm                    |
| 2-Chlorotoluene                 | 95-49-8           | 1.000 ppm             | 1.035 ppm            | ± 0.004 ppm                    |
| n-Propylbenzene                 | 103-65-1          | 1.000 ppm             | 1.036 ppm            | ± 0.004 ppm                    |
| 4-Ethyltoluene                  | 622-96-8          | 1.000 ppm             | 1.020 ppm            | ± 0.004 ppm                    |
| 1,3,5-Trimethylbenzene          | 108-67-8          | 1.000 ppm             | 1.034 ppm            | ± 0.004 ppm                    |
| alpha-Methyl Styrene (No Stabil | 98-83-9           | 1.000 ppm             | 1.015 ppm            | ± 0.004 ppm                    |
| Tert-Butyl Benzene              | 98-06-6           | 1.000 ppm             | 1.034 ppm            | ± 0.004 ppm                    |
| 1,2,4-Trimethylbenzene          | 95-63-6           | 1.000 ppm             | 1.038 ppm            | ± 0.004 ppm                    |
| 1,3-Dichlorobenzene             | 541-73-1          | 1.000 ppm             | 1.033 ppm            | ± 0.004 ppm                    |

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# ISO 17025 Certificate



## Certificate of Analysis

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**PAGE:**

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Report ID:

23639

Revision:

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|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

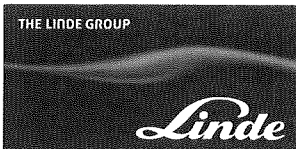
| <u>COMPONENT</u>       | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Reported Conc</u> | <u>Uncertainty (k=2 @ 95%)</u> |
|------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| Benzyl Chloride        | 100-44-7          | 1.000 ppm             | 1.032 ppm            | ± 0.004 ppm                    |
| n-Decane               | 124-18-5          | 1.000 ppm             | 1.010 ppm            | ± 0.004 ppm                    |
| 1,4-Dichlorobenzene    | 106-46-7          | 1.000 ppm             | 1.015 ppm            | ± 0.004 ppm                    |
| Sec-Butyl Benzene      | 135-98-8          | 1.000 ppm             | 1.033 ppm            | ± 0.004 ppm                    |
| 4-Isopropyltoluene     | 99-87-6           | 1.000 ppm             | 1.047 ppm            | ± 0.004 ppm                    |
| 1,2-Dichlorobenzene    | 95-50-1           | 1.000 ppm             | 1.062 ppm            | ± 0.004 ppm                    |
| n-Butyl Benzene        | 104-51-8          | 1.000 ppm             | 1.036 ppm            | ± 0.004 ppm                    |
| n-Undecane             | 1120-21-4         | 1.000 ppm             | 1.056 ppm            | ± 0.004 ppm                    |
| 1,2,4-Trichlorobenzene | 120-82-1          | 1.000 ppm             | 1.080 ppm            | ± 0.039 ppm                    |
| Naphthalene            | 91-20-3           | 1.000 ppm             | 1.047 ppm            | ± 0.004 ppm                    |
| n-Dodecane             | 112-40-3          | 1.000 ppm             | 1.039 ppm            | ± 0.004 ppm                    |

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# ISO 17025 Certificate



## Certificate of Analysis

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**PAGE:** 6 of 6  
**Report ID:** 23639  
**Revision:** 0

|                            |                |                            |                  |
|----------------------------|----------------|----------------------------|------------------|
| <b>Sales#:</b>             | 115931017      | <b>Cylinder Size:</b>      | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1444262        | <b>Cylinder # :</b>        | CC-133603        |
| <b>Certification Date:</b> | Feb-01-2018    | <b>Cylinder Pressure:</b>  | 2000 psig        |
| <b>P.O.#:</b>              | 2705057        | <b>Cylinder Valve:</b>     | CGA 350 / Steel  |
| <b>Blend Type:</b>         | ISO-17025      | <b>Cylinder Volume:</b>    | 29.5 Liter       |
| <b>Material#:</b>          | 24104980       | <b>Cylinder Material:</b>  | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters      |
| <b>Expiration Date:</b>    | Feb-01-2019    | <b>Blend Tolerance:</b>    | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID           |

| <u>COMPONENT</u>         | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Reported Conc</u> | <u>Uncertainty (k=2 @ 95%)</u> |
|--------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| 1,2,3-Trichlorobenzene   | 87-61-6           | 1.000 ppm             | 1.073 ppm            | ± 0.004 ppm                    |
| Hexachloro-1,3-Butadiene | 87-68-3           | 1.000 ppm             | 1.060 ppm            | ± 0.039 ppm                    |
| Nitrogen                 | 7727-37-9         | Balance               | Balance              |                                |

**ANALYST:** Lou Lorenzetti

**DATE:** Feb-01-2018

### Linde Spectra Environmental Gases

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Reagent

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**ATTO15CISs\_00010**

THE LINDE GROUP



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**PAGE:** 1 of 1

**CERTIFICATE OF ANALYSIS**

|                            |                |                             |                  |
|----------------------------|----------------|-----------------------------|------------------|
| <b>Sales#:</b>             | 113830245      | <b>Cylinder Size:</b>       | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1371258        | <b>Cylinder #:</b>          | CC-133684        |
| <b>Certification Date:</b> | Mar-24-2016    | <b>Cylinder Pressure:</b>   | 2000 psig        |
| <b>P.O.# :</b>             | 2640230        | <b>Cylinder Valve:</b>      | CGA 350 / Steel  |
| <b>Blend Type:</b>         | CERTIFIED      | <b>Cylinder Volume:</b>     | 29.5 Liter       |
| <b>Material#:</b>          | 24088974       | <b>Cylinder Material:</b>   | Aluminum         |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>          | 4000 Liters      |
| <b>Expiration Date:</b>    | Mar-24-2017    | <b>Blend Tolerance:</b>     | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Analytical Accuracy:</b> | 10% Relative     |

| COMPONENT            | CAS NUMBER | REQUESTED CONC | CERTIFIED CONC |
|----------------------|------------|----------------|----------------|
| Bromochloromethane   | 74-97-5    | 100 ppb        | 106 ppb        |
| 1,4-Difluorobenzene  | 540-36-3   | 100 ppb        | 110 ppb        |
| Chlorobenzene-d5     | 3114-55-4  | 100 ppb        | 110 ppb        |
| 4-Bromofluorobenzene | 460-00-4   | 100 ppb        | 110 ppb        |
| Nitrogen             | 7727-37-9  | Balance        | Balance        |



941848  
ID: ATTO15CISs\_00010  
Exp:06/14/21 Prip:PAD Opm:06/14/16  
Internal Standard for Ins

**ANALYST:** *Lou Lorenzetti*  
Lou Lorenzetti

**DATE:** Mar-24-2016



Reagent

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**ATTO15EthCALs\_00009**

## CERTIFICATE OF ANALYSIS

### Ethyl alcohol

CATALOG NUMBER N-11885-1G  
LOT NUMBER 5301900  
DATE CERTIFIED 07/21/15  
EXPIRATION DATE 07/31/21  
CAS NUMBER 64-17-5  
MOLECULAR FORMULA C<sub>2</sub>H<sub>6</sub>O  
MOLECULAR WEIGHT 46.07  
STORAGE Store in a cool dry place.  
HANDLING See Safety Data Sheet  
INTENDED USE For laboratory use only.  
ISO GUIDE 34 CERTIFIED [ ]

| <u>Analytical Test</u> | <u>Value</u> |
|------------------------|--------------|
| % PURITY (GC/FID)      | 99.5         |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

*Mary Beth O'Donnell*

Mary Beth O'Donnell  
CSM/TC

Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008



ISO/IEC 17025  
Accreditation Number: 83120

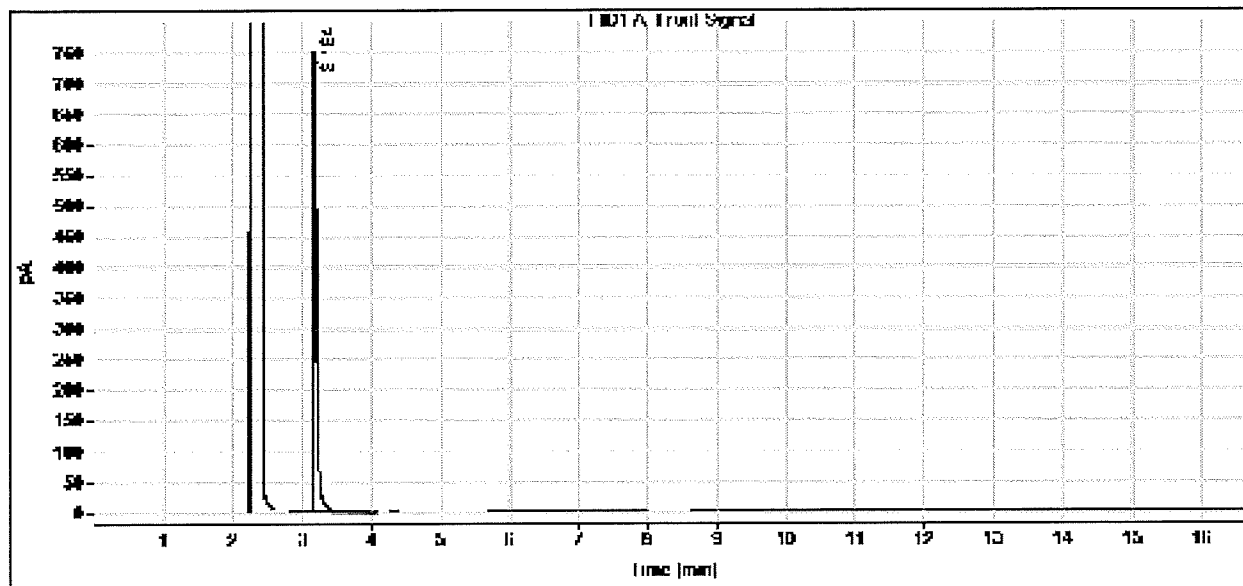


Reference Material Producer  
ISO GUIDE 34  
Accreditation Number: 83530

## CERTIFICATE OF ANALYSIS

### Gas Chromatography / Flame Ionization Detector (GC/FID)

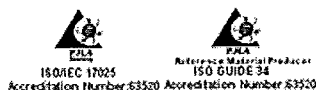
Data file: C:\CHEM321\DATA\0715\SIG1006841.D  
Sample name: N-11885  
Instrument: GC 1                      Sample type: Sample  
Injection date: 7/21/2015 10:30:34 AM                      Location: Vial 5  
Acq. method: MIX1.M                      Injection volume: 1.0uL  
Column name: DB-824 (30m x 0.53mm x 3.0um)



Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area      | Height   | Area%    |
|----------|------|-------------|-----------|----------|----------|
| 3.184    | BB   | 0.0537      | 2304.4050 | 741.5197 | 100.0000 |
|          |      | Sum         | 2304.4050 |          |          |

Chem Service, Inc. is accredited to ISO Guide 34:2005, ISO/IEC 17025:2005 and certified to ISO 9001:2008



Reagent

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**ATTO15GIS\_00015**

THE LINDE GROUP



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**PAGE:** 1 of 1

ATT0156-15-00015  
106742

**CERTIFICATE OF ANALYSIS**

|                            |                     |                             |                  |
|----------------------------|---------------------|-----------------------------|------------------|
| <b>Sales#:</b>             | 115057976           | <b>Cylinder Size:</b>       | 152 (8" X 47.5") |
| <b>Production#:</b>        | 1415934             | <b>Cylinder # :</b>         | CC-270535        |
| <b>Certification Date:</b> | May-08-2017         | <b>Cylinder Pressure:</b>   | 2000 psig        |
| <b>P.O.# :</b>             | 2670646-Replacement | <b>Cylinder Valve:</b>      | CGA 350 / Steel  |
| <b>Blend Type:</b>         | CERTIFIED           | <b>Cylinder Volume:</b>     | 29.5 Liter       |
| <b>Material#:</b>          | 24088974            | <b>Cylinder Material:</b>   | Aluminum         |
| <b>Traceability:</b>       | NIST by weight      | <b>Gas Volume:</b>          | 4000 Liters      |
| <b>Expiration Date:</b>    | May-08-2018         | <b>Blend Tolerance:</b>     | 10% Relative     |
| <b>Do NOT use under:</b>   | 150 psig            | <b>Analytical Accuracy:</b> | 10% Relative     |

| COMPONENT            | CAS NUMBER | REQUESTED CONC | CERTIFIED CONC |
|----------------------|------------|----------------|----------------|
| Bromochloromethane   | 74-97-5    | 100 ppb        | 108 ppb        |
| 1,4-Difluorobenzene  | 540-36-3   | 100 ppb        | 109 ppb        |
| Chlorobenzene-d5     | 3114-55-4  | 100 ppb        | 106 ppb        |
| 4-Bromofluorobenzene | 460-00-4   | 100 ppb        | 104 ppb        |
| Nitrogen             | 7727-37-9  | Balance        | Balance        |

**ANALYST:** Justin Kutz  
Justin Kutz

**DATE:** May-08-2017

Reagent

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**ATTO15LCSs\_00024**

7.5 Liters added to 15 Liter Cylinder



ISO Guide 34 Certificate



4/21/15

Tank D

Certified Reference Material

Received  
ATC  
4/14/15



888549  
ID: ATTO15ISOs\_00001  
Exp: 04/01/18 Ppd: WRD  
TO15 ISO Source Tank

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5815 Middlebrook Pike  
Knoxville, TN 37921

PAGE: 1 of 5  
Report ID: 15130  
Revision: 0

|                     |                |                     |                 |
|---------------------|----------------|---------------------|-----------------|
| Sales#:             | 112391853      | Cylinder Size:      | 2A (8" X 47.5") |
| Production#:        | 1322796        | Cylinder #:         | GC-118624       |
| Certification Date: | Apr-01-2015    | Cylinder Pressure:  | .2000 psig      |
| P.O.#:              | 2587419        | Cylinder Valve:     | CGA 350 / Steel |
| Blend Type:         | ISO GUIDE 34   | Cylinder Volume:    | 29.5 Liter      |
| Material#:          | 24099132       | Cylinder Material:  | Aluminum        |
| Traceability:       | NIST by weight | Gas Volume:         | 4000 Liters     |
| Expiration Date:    | Apr-01-2016    | Blend Tolerance:    | 10% Relative    |
| Do NOT use under:   | 160 psig       | Method of Analysis: | GC-FID          |

Primary Reference Material Intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis - handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of 2 (K=2), providing a level of confidence of approximately 95% and has been carried out in accordance with ACLASS (ANSI-ASQ National Accreditation Board) and ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ACLASS. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

Linde Spectra Environmental Gases

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# ISO Guide 34 Certificate



## Certified Reference Material



888549  
 ID: ATTO15ISOs\_00001  
 Exp: 04/01/18 Ppd: WRD  
 TO15 ISO Source Tank

**SHIPPED TO:**  
 Test America Inc.  
 5815 Middlebrook Pike  
 Knoxville, TN 37921

**PAGE:** 2 of 6  
**Report ID:** 15130  
**Revision:** 0

|                            |                |                            |                 |
|----------------------------|----------------|----------------------------|-----------------|
| <b>Sales#:</b>             | 112391853      | <b>Cylinder Size:</b>      | 2A (8" X 47.6") |
| <b>Production#:</b>        | 1322796        | <b>Cylinder #:</b>         | CC-118524       |
| <b>Certification Date:</b> | Apr-01-2015    | <b>Cylinder Pressure:</b>  | 2000 psig       |
| <b>P.O.#:</b>              | 2587419        | <b>Cylinder Valve:</b>     | CGA 350 / Steel |
| <b>Blend Type:</b>         | ISO GUIDE 34   | <b>Cylinder Volume:</b>    | 29.5 Liter      |
| <b>Material#:</b>          | 24099132       | <b>Cylinder Material:</b>  | Aluminum        |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters     |
| <b>Expiration Date:</b>    | Apr-01-2016    | <b>Blend Tolerance:</b>    | 10% Relative    |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID          |

| <u>COMPONENT</u>                  | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Certified Conc (k=2 @ 95%)</u> |
|-----------------------------------|-------------------|-----------------------|-----------------------------------|
| Propylene                         | 115-07-1          | 1.000 ppm             | 1.033 ± 0.041 ppm                 |
| Chlorodifluoromethane             | 75-45-6           | 1.000 ppm             | 1.031 ± 0.032 ppm                 |
| Freon-12                          | 75-71-8           | 1.000 ppm             | 1.032 ± 0.016 ppm                 |
| Chloromethane                     | 74-87-3           | 1.000 ppm             | 1.030 ± 0.036 ppm                 |
| Freon-114                         | 76-14-2           | 1.000 ppm             | 1.030 ± 0.011 ppm                 |
| Vinyl Chloride                    | 75-01-4           | 1.000 ppm             | 1.033 ± 0.016 ppm                 |
| 1,3-Butadiene                     | 106-99-0          | 1.000 ppm             | 1.032 ± 0.012 ppm                 |
| Methanol (No Stability Guarantee) | 67-56-1           | 1.000 ppm             | 1.139 ± 0.276 ppm                 |
| n-Butane                          | 106-97-8          | 1.000 ppm             | 1.032 ± 0.009 ppm                 |
| Bromomethane                      | 74-83-9           | 1.000 ppm             | 1.032 ± 0.041 ppm                 |
| Chloroethane                      | 75-00-3           | 1.000 ppm             | 1.033 ± 0.014 ppm                 |
| Vinyl Bromide                     | 593-60-2          | 1.000 ppm             | 1.037 ± 0.010 ppm                 |
| Acetonitrile                      | 75-05-8           | 1.000 ppm             | 1.036 ± 0.006 ppm                 |
| Acrolein                          | 107-02-8          | 1.000 ppm             | 1.034 ± 0.101 ppm                 |
| Isopentane                        | 78-78-4           | 1.000 ppm             | 1.036 ± 0.007 ppm                 |
| Acetone                           | 67-64-1           | 1.000 ppm             | 1.034 ± 0.007 ppm                 |
| Freon-11                          | 75-69-4           | 1.000 ppm             | 1.031 ± 0.014 ppm                 |
| Isopropyl Alcohol                 | 67-63-0           | 1.000 ppm             | 1.141 ± 0.008 ppm                 |
| Acrylonitrile                     | 107-13-1          | 1.000 ppm             | 1.027 ± 0.007 ppm                 |
| n-Pentane                         | 109-66-0          | 1.000 ppm             | 1.029 ± 0.007 ppm                 |
| Ethyl Ether                       | 60-29-7           | 1.000 ppm             | 1.031 ± 0.007 ppm                 |
| 1,1-Dichloroethene                | 75-35-4           | 1.000 ppm             | 1.051 ± 0.006 ppm                 |
| Carbon Disulfide                  | 75-15-0           | 1.000 ppm             | 1.042 ± 0.007 ppm                 |
| Methylene Chloride                | 75-09-2           | 1.000 ppm             | 1.034 ± 0.007 ppm                 |
| Tert-Butanol                      | 75-65-0           | 1.000 ppm             | 1.113 ± 0.008 ppm                 |
| 3-Chloropropene                   | 107-05-1          | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Freon-113                         | 76-13-1           | 1.000 ppm             | 1.033 ± 0.006 ppm                 |

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# ISO Guide 34 Certificate



## Certified Reference Material



888549  
 ID: ATTO15ISOs\_00001  
 Exp: 04/01/18 Ppd: WRD  
 TO15 ISO Source Tank

**SHIPPED TO:**  
 Test America Inc.  
 5815 Middlebrook Pike  
 Knoxville, TN 37921

**PAGE:** 3 of 6  
**Report ID:** 15130  
**Revision:** 0

|                            |                |                            |                 |
|----------------------------|----------------|----------------------------|-----------------|
| <b>Sales#:</b>             | 112391853      | <b>Cylinder Size:</b>      | 2A (8" X 47.5") |
| <b>Production#:</b>        | 1322796        | <b>Cylinder #:</b>         | CC-118624       |
| <b>Certification Date:</b> | Apr-01-2015    | <b>Cylinder Pressure:</b>  | 2000 psig       |
| <b>P.O.#:</b>              | 2587419        | <b>Cylinder Valve:</b>     | CGA 350 / Steel |
| <b>Blend Type:</b>         | ISO GUIDE 34   | <b>Cylinder Volume:</b>    | 29.5 Liter      |
| <b>Material#:</b>          | 24099132       | <b>Cylinder Material:</b>  | Aluminum        |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters     |
| <b>Expiration Date:</b>    | Apr-01-2016    | <b>Blend Tolerance:</b>    | 10% Relative    |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID          |

| <u>COMPONENT</u>          | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Certified Conc (k=2 @ 95%)</u> |
|---------------------------|-------------------|-----------------------|-----------------------------------|
| Trans-1,2-Dichloroethene  | 156-60-5          | 1.000 ppm             | 1.040 ± 0.007 ppm                 |
| 1,1-Dichloroethane        | 75-34-3           | 1.000 ppm             | 1.032 ± 0.007 ppm                 |
| Methyl Tert Butyl Ether   | 1634-04-4         | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Vinyl Acetate             | 108-05-4          | 1.000 ppm             | 1.114 ± 0.010 ppm                 |
| Methyl Ethyl Ketone       | 78-93-3           | 1.000 ppm             | 1.034 ± 0.009 ppm                 |
| Cis-1,2-Dichloroethene    | 156-59-2          | 1.000 ppm             | 1.037 ± 0.007 ppm                 |
| Hexane                    | 110-54-3          | 1.000 ppm             | 1.037 ± 0.007 ppm                 |
| Chloroform                | 67-66-3           | 1.000 ppm             | 1.035 ± 0.007 ppm                 |
| Ethyl Acetate             | 141-78-6          | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Tetrahydrofuran           | 109-99-9          | 1.000 ppm             | 1.037 ± 0.007 ppm                 |
| 1,2-Dichloroethane        | 107-06-2          | 1.000 ppm             | 1.030 ± 0.007 ppm                 |
| 1,1,1-Trichloroethane     | 71-55-6           | 1.000 ppm             | 1.030 ± 0.007 ppm                 |
| Benzene                   | 71-43-2           | 1.000 ppm             | 1.030 ± 0.007 ppm                 |
| 1-Butanol                 | 71-36-3           | 1.000 ppm             | 1.116 ± 0.034 ppm                 |
| Carbon Tetrachloride      | 56-23-5           | 1.000 ppm             | 1.034 ± 0.013 ppm                 |
| Cyclohexane               | 110-82-7          | 1.000 ppm             | 1.032 ± 0.007 ppm                 |
| Dibromomethane            | 74-95-3           | 1.000 ppm             | 1.030 ± 0.008 ppm                 |
| 1,2-Dichloropropane       | 78-87-5           | 1.000 ppm             | 1.031 ± 0.008 ppm                 |
| Trichloroethylene         | 79-01-6           | 1.000 ppm             | 1.031 ± 0.007 ppm                 |
| Bromodichloromethane      | 75-27-4           | 1.000 ppm             | 1.034 ± 0.007 ppm                 |
| 1,4-Dioxane               | 123-91-1          | 1.000 ppm             | 1.034 ± 0.007 ppm                 |
| 2,2,4-Trimethylpentane    | 540-84-1          | 1.000 ppm             | 1.031 ± 0.007 ppm                 |
| Methyl Methacrylate       | 80-62-6           | 1.000 ppm             | 1.034 ± 0.008 ppm                 |
| Heptane                   | 142-82-5          | 1.000 ppm             | 1.035 ± 0.007 ppm                 |
| Cis-1,3-Dichloropropene   | 10061-01-5        | 1.000 ppm             | 1.048 ± 0.028 ppm                 |
| Methyl Isobutyl Ketone    | 108-10-1          | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Trans-1,3-Dichloropropene | 10061-02-6        | 1.000 ppm             | 1.016 ± 0.028 ppm                 |

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# ISO Guide 34 Certificate



## Certified Reference Material



888549  
 ID: ATTO15ISOs\_00001  
 Exp: 04/01/18 Prpd: WRD  
 TO15 ISO Source Tank

**SHIPPED TO:**  
 Test America Inc.  
 5815 Middlebrook Pike  
 Knoxville, TN 37921

**PAGE:** 4 of 5  
**Report ID:** 16130  
**Revision:** 0

|                            |                |                            |                 |
|----------------------------|----------------|----------------------------|-----------------|
| <b>Sales#:</b>             | 112391853      | <b>Cylinder Size:</b>      | 2A (8" X 47.5") |
| <b>Production#:</b>        | 1322796        | <b>Cylinder # :</b>        | CC-118624       |
| <b>Certification Date:</b> | Apr-01-2015    | <b>Cylinder Pressure:</b>  | 2000 psig       |
| <b>P.O.#:</b>              | 2587419        | <b>Cylinder Valve:</b>     | CGA 350 / Steel |
| <b>Blend Type:</b>         | ISO GUIDE 34   | <b>Cylinder Volume:</b>    | 29.5 Liter      |
| <b>Material#:</b>          | 24099132       | <b>Cylinder Material:</b>  | Aluminum        |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters     |
| <b>Expiration Date:</b>    | Apr-01-2016    | <b>Blend Tolerance:</b>    | 10% Relative    |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID          |

| <u>COMPONENT</u>                              | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Certified Conc (k=2 @ 95%)</u> |
|---|-------------------|-----------------------|-----------------------------------|
| 1,1,2-Trichloroethane                         | 79-00-5           | 1.000 ppm             | 1.035 ± 0.007 ppm                 |
| Toluene                                       | 108-88-3          | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Methyl Butyl Ketone                           | 691-78-6          | 1.000 ppm             | 1.035 ± 0.008 ppm                 |
| Dibromochloromethane                          | 124-48-1          | 1.000 ppm             | 1.035 ± 0.007 ppm                 |
| 1,2-Dibromoethane                             | 106-93-4          | 1.000 ppm             | 1.033 ± 0.008 ppm                 |
| n-Octane                                      | 111-65-9          | 1.000 ppm             | 1.027 ± 0.007 ppm                 |
| Tetrachloroethylene                           | 127-18-4          | 1.000 ppm             | 1.035 ± 0.007 ppm                 |
| Chlorobenzene                                 | 108-90-7          | 1.000 ppm             | 1.032 ± 0.006 ppm                 |
| Ethylbenzene                                  | 100-41-4          | 1.000 ppm             | 1.032 ± 0.007 ppm                 |
| p-xylene                                      | 106-42-3          | 1.000 ppm             | 1.030 ± 0.007 ppm                 |
| m-xylene                                      | 108-38-3          | 1.000 ppm             | 1.034 ± 0.007 ppm                 |
| Bromoform                                     | 76-25-2           | 1.000 ppm             | 1.033 ± 0.007 ppm                 |
| Styrene                                       | 100-42-5          | 1.000 ppm             | 1.037 ± 0.007 ppm                 |
| o-xylene                                      | 95-47-6           | 1.000 ppm             | 1.038 ± 0.007 ppm                 |
| 1,1,2,2-Tetrachloroethane                     | 79-34-5           | 1.000 ppm             | 1.036 ± 0.007 ppm                 |
| 1,2,3-Trichloropropane                        | 96-18-4           | 1.000 ppm             | 1.032 ± 0.007 ppm                 |
| Nonane  | 111-84-2          | 1.000 ppm             | 1.028 ± 0.007 ppm                 |
| Cumene  | 98-82-8           | 1.000 ppm             | 1.026 ± 0.007 ppm                 |
| 2-Chlorotoluene                               | 95-49-8           | 1.000 ppm             | 1.027 ± 0.007 ppm                 |
| n-Propylbenzene                               | 103-65-1          | 1.000 ppm             | 1.026 ± 0.007 ppm                 |
| 4-Ethyltoluene                                | 622-96-6          | 1.000 ppm             | 1.032 ± 0.007 ppm                 |
| 1,3,5-Trimethylbenzene                        | 108-67-8          | 1.000 ppm             | 1.030 ± 0.007 ppm                 |
| alpha-Methyl Styrene (No Stability Guarantee) | 98-83-9           | 1.000 ppm             | 1.028 ± 0.008 ppm                 |
| Tert-Butyl Benzene                            | 98-06-6           | 1.000 ppm             | 1.026 ± 0.008 ppm                 |
| 1,2,4-Trimethylbenzene                        | 95-63-6           | 1.000 ppm             | 1.030 ± 0.008 ppm                 |
| 1,3-Dichlorobenzene                           | 541-73-1          | 1.000 ppm             | 1.034 ± 0.008 ppm                 |
| Benzyl Chloride                               | 100-44-7          | 1.000 ppm             | 1.033 ± 0.008 ppm                 |

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# ISO Guide 34 Certificate



## Certified Reference Material



888549  
ID: ATTO15ISOs\_00001  
Exp: 04/01/18 Prod: WRD  
TO15 ISO Source Tank

**SHIPPED TO:**  
Test America Inc.  
5815 Middlebrook Pike  
Knoxville, TN 37921

**PAGE:** 5 of 5  
**Report ID:** 15130  
**Revision:** 0

|                            |                |                            |                 |
|----------------------------|----------------|----------------------------|-----------------|
| <b>Sales#:</b>             | 112391863      | <b>Cylinder Size:</b>      | 2A (8" X 47.5") |
| <b>Production#:</b>        | 1322796        | <b>Cylinder # :</b>        | CC-118524       |
| <b>Certification Date:</b> | Apr-01-2015    | <b>Cylinder Pressure:</b>  | 2000 psig       |
| <b>P.O.#:</b>              | 2687419        | <b>Cylinder Valve:</b>     | CGA 350 / Steel |
| <b>Blend Type:</b>         | ISO GUIDE 34   | <b>Cylinder Volume:</b>    | 29.5 Liter      |
| <b>Material#:</b>          | 24099132       | <b>Cylinder Material:</b>  | Aluminum        |
| <b>Traceability:</b>       | NIST by weight | <b>Gas Volume:</b>         | 4000 Liters     |
| <b>Expiration Date:</b>    | Apr-01-2016    | <b>Blend Tolerance:</b>    | 10% Relative    |
| <b>Do NOT use under:</b>   | 150 psig       | <b>Method of Analysis:</b> | GC-FID          |

| <u>COMPONENT</u>         | <u>CAS Number</u> | <u>Requested Conc</u> | <u>Certified Conc (k=2 @ 95%)</u> |
|--------------------------|-------------------|-----------------------|-----------------------------------|
| n-Decane                 | 124-18-5          | 1.000 ppm             | 1.027 ± 0.009 ppm                 |
| 1,4-Dichlorobenzene      | 106-46-7          | 1.000 ppm             | 1.032 ± 0.009 ppm                 |
| Sec-Butyl Benzene        | 135-98-8          | 1.000 ppm             | 1.027 ± 0.008 ppm                 |
| 4-Isopropyltoluene       | 99-87-6           | 1.000 ppm             | 1.026 ± 0.008 ppm                 |
| 1,2-Dichlorobenzene      | 95-50-1           | 1.000 ppm             | 1.037 ± 0.009 ppm                 |
| n-Butyl Benzene          | 104-51-8          | 1.000 ppm             | 1.027 ± 0.008 ppm                 |
| n-Undecane               | 1120-21-4         | 1.000 ppm             | 1.026 ± 0.010 ppm                 |
| 1,2,4-Trichlorobenzene   | 120-82-1          | 1.000 ppm             | 1.032 ± 0.037 ppm                 |
| Naphthalene              | 91-20-3           | 1.000 ppm             | 1.035 ± 0.011 ppm                 |
| n-Dodecane               | 112-40-3          | 1.000 ppm             | 1.026 ± 0.011 ppm                 |
| 1,2,3-Trichlorobenzene   | 87-61-6           | 1.000 ppm             | 1.027 ± 0.018 ppm                 |
| Hexachloro-1,3-Butadiene | 87-68-3           | 1.000 ppm             | 1.034 ± 0.038 ppm                 |
| Nitrogen                 | 7727-37-9         | Balance               | Balance                           |

ANALYST: Lou Lorenzetti

DATE: Apr-01-2015

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# Method T015

---

Volatile Organic Compounds (GC/MS)  
by Method T015

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 200-33531-006.D

Lab ID: LCS 200-137819/6

Client ID: \_\_\_\_\_

| COMPOUND                            | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane             | 10.0                        | 11.4                              | 114             | 68-128              |   |
| Chlorodifluoromethane               | 10.0                        | 11.0                              | 110             | 64-128              |   |
| 1,2-Dichlorotetrafluoroethane       | 10.0                        | 11.1                              | 111             | 78-138              |   |
| Chloromethane                       | 10.0                        | 10.5                              | 105             | 57-126              |   |
| n-Butane                            | 10.0                        | 10.3                              | 103             | 56-130              |   |
| Vinyl chloride                      | 10.0                        | 10.1                              | 101             | 62-125              |   |
| 1,3-Butadiene                       | 10.0                        | 10.3                              | 103             | 59-125              |   |
| Bromomethane                        | 10.0                        | 10.7                              | 107             | 68-128              |   |
| Chloroethane                        | 10.0                        | 10.8                              | 108             | 65-125              |   |
| Bromoethene (Vinyl Bromide)         | 10.0                        | 10.7                              | 107             | 67-127              |   |
| Trichlorofluoromethane              | 10.0                        | 10.8                              | 108             | 67-127              |   |
| 1,1,2-Trichlorotrifluoroethane      | 10.0                        | 11.1                              | 111             | 68-128              |   |
| 1,1-Dichloroethene                  | 10.0                        | 10.6                              | 106             | 67-127              |   |
| Acetone                             | 10.0                        | 11.9                              | 119             | 64-136              |   |
| Isopropyl alcohol                   | 10.0                        | 10.3                              | 103             | 55-124              |   |
| Carbon disulfide                    | 10.0                        | 10.7                              | 107             | 81-141              |   |
| 3-Chloropropene                     | 10.0                        | 10.9                              | 109             | 53-133              |   |
| Methylene Chloride                  | 10.0                        | 10.9                              | 109             | 62-122              |   |
| tert-Butyl alcohol                  | 10.0                        | 10.2                              | 102             | 64-124              |   |
| Methyl tert-butyl ether             | 10.0                        | 11.5                              | 115             | 67-127              |   |
| trans-1,2-Dichloroethene            | 10.0                        | 10.8                              | 108             | 72-132              |   |
| n-Hexane                            | 10.0                        | 11.0                              | 110             | 71-131              |   |
| 1,1-Dichloroethane                  | 10.0                        | 10.7                              | 107             | 66-126              |   |
| Methyl Ethyl Ketone<br>(2-Butanone) | 10.0                        | 10.7                              | 107             | 62-122              |   |
| cis-1,2-Dichloroethene              | 10.0                        | 11.8                              | 118             | 67-127              |   |
| Chloroform                          | 10.0                        | 11.2                              | 112             | 69-129              |   |
| Tetrahydrofuran                     | 10.0                        | 9.40                              | 94              | 61-136              |   |
| 1,1,1-Trichloroethane               | 10.0                        | 9.75                              | 98              | 70-130              |   |
| Cyclohexane                         | 10.0                        | 9.31                              | 93              | 69-129              |   |
| Carbon tetrachloride                | 10.0                        | 10.1                              | 101             | 62-143              |   |
| 2,2,4-Trimethylpentane              | 10.0                        | 9.45                              | 94              | 67-127              |   |
| Benzene                             | 10.0                        | 10.6                              | 106             | 67-127              |   |
| 1,2-Dichloroethane                  | 10.0                        | 10.3                              | 103             | 67-132              |   |
| n-Heptane                           | 10.0                        | 9.99                              | 100             | 62-130              |   |
| Trichloroethene                     | 10.0                        | 9.29                              | 93              | 68-128              |   |
| Methyl methacrylate                 | 10.0                        | 9.83                              | 98              | 70-130              |   |
| 1,2-Dichloropropane                 | 10.0                        | 11.2                              | 112             | 67-127              |   |
| 1,4-Dioxane                         | 10.0                        | 9.74                              | 97              | 66-132              |   |
| Bromodichloromethane                | 10.0                        | 10.5                              | 105             | 69-129              |   |
| cis-1,3-Dichloropropene             | 10.0                        | 11.1                              | 111             | 70-130              |   |

# Column to be used to flag recovery and RPD values

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 200-33531-006.D

Lab ID: LCS 200-137819/6

Client ID: \_\_\_\_\_

| COMPOUND                                      | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0                        | 8.95                              | 90              | 62-130              |   |
| Toluene                                       | 10.0                        | 12.3                              | 123             | 67-127              |   |
| trans-1,3-Dichloropropene                     | 10.0                        | 10.6                              | 106             | 69-129              |   |
| 1,1,2-Trichloroethane                         | 10.0                        | 11.5                              | 115             | 69-129              |   |
| Tetrachloroethene                             | 10.0                        | 11.5                              | 115             | 70-130              |   |
| Methyl Butyl Ketone (2-Hexanone)              | 10.0                        | 9.34                              | 93              | 61-127              |   |
| Dibromochloromethane                          | 10.0                        | 12.2                              | 122             | 66-130              |   |
| 1,2-Dibromoethane                             | 10.0                        | 12.4                              | 124             | 70-130              |   |
| Chlorobenzene                                 | 10.0                        | 12.1                              | 121             | 68-128              |   |
| Ethylbenzene                                  | 10.0                        | 11.4                              | 114             | 68-128              |   |
| m,p-Xylene                                    | 20.0                        | 22.7                              | 113             | 68-128              |   |
| o-Xylene                                      | 10.0                        | 11.6                              | 116             | 67-127              |   |
| Styrene                                       | 10.0                        | 11.5                              | 115             | 68-128              |   |
| Bromoform                                     | 10.0                        | 12.8                              | 129             | 34-170              |   |
| Cumene  | 10.0                        | 11.5                              | 115             | 67-127              |   |
| 1,1,2,2-Tetrachloroethane                     | 10.0                        | 10.2                              | 102             | 69-129              |   |
| n-Propylbenzene                               | 10.0                        | 10.8                              | 108             | 67-127              |   |
| 4-Ethyltoluene                                | 10.0                        | 11.0                              | 110             | 69-129              |   |
| 1,3,5-Trimethylbenzene                        | 10.0                        | 11.0                              | 110             | 65-125              |   |
| 2-Chlorotoluene                               | 10.0                        | 11.0                              | 110             | 67-127              |   |
| tert-Butylbenzene                             | 10.0                        | 11.1                              | 111             | 63-125              |   |
| 1,2,4-Trimethylbenzene                        | 10.0                        | 10.9                              | 109             | 65-125              |   |
| sec-Butylbenzene                              | 10.0                        | 11.1                              | 111             | 66-126              |   |
| 4-Isopropyltoluene                            | 10.0                        | 11.1                              | 111             | 67-129              |   |
| 1,3-Dichlorobenzene                           | 10.0                        | 11.0                              | 110             | 67-127              |   |
| 1,4-Dichlorobenzene                           | 10.0                        | 11.3                              | 113             | 66-126              |   |
| Benzyl chloride                               | 10.0                        | 10.1                              | 101             | 54-135              |   |
| n-Butylbenzene                                | 10.0                        | 10.7                              | 107             | 67-127              |   |
| 1,2-Dichlorobenzene                           | 10.0                        | 10.9                              | 109             | 67-127              |   |
| 1,2,4-Trichlorobenzene                        | 10.0                        | 8.14                              | 81              | 59-126              |   |
| Hexachlorobutadiene                           | 10.0                        | 8.93                              | 89              | 62-130              |   |
| Naphthalene                                   | 10.0                        | 7.46                              | 75              | 50-121              |   |

# Column to be used to flag recovery and RPD values



FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 200-33558-004.D

Lab ID: LCS 200-137867/4

Client ID: \_\_\_\_\_

| COMPOUND                            | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane             | 10.0                        | 11.5                              | 115             | 68-128              |   |
| Chlorodifluoromethane               | 10.0                        | 10.4                              | 104             | 64-128              |   |
| 1,2-Dichlorotetrafluoroethane       | 10.0                        | 11.1                              | 111             | 78-138              |   |
| Chloromethane                       | 10.0                        | 10.1                              | 101             | 57-126              |   |
| n-Butane                            | 10.0                        | 9.76                              | 98              | 56-130              |   |
| Vinyl chloride                      | 10.0                        | 9.84                              | 98              | 62-125              |   |
| 1,3-Butadiene                       | 10.0                        | 9.84                              | 98              | 59-125              |   |
| Bromomethane                        | 10.0                        | 10.3                              | 103             | 68-128              |   |
| Chloroethane                        | 10.0                        | 9.50                              | 95              | 65-125              |   |
| Bromoethene (Vinyl Bromide)         | 10.0                        | 10.2                              | 103             | 67-127              |   |
| Trichlorofluoromethane              | 10.0                        | 10.3                              | 103             | 67-127              |   |
| 1,1,2-Trichlorotrifluoroethane      | 10.0                        | 10.2                              | 102             | 68-128              |   |
| 1,1-Dichloroethene                  | 10.0                        | 9.99                              | 100             | 67-127              |   |
| Acetone                             | 10.0                        | 9.93                              | 99              | 64-136              |   |
| Isopropyl alcohol                   | 10.0                        | 9.76                              | 98              | 55-124              |   |
| Carbon disulfide                    | 10.0                        | 10.4                              | 104             | 81-141              |   |
| 3-Chloropropene                     | 10.0                        | 9.68                              | 97              | 53-133              |   |
| Methylene Chloride                  | 10.0                        | 9.56                              | 96              | 62-122              |   |
| tert-Butyl alcohol                  | 10.0                        | 10.0                              | 100             | 64-124              |   |
| Methyl tert-butyl ether             | 10.0                        | 9.79                              | 98              | 67-127              |   |
| trans-1,2-Dichloroethene            | 10.0                        | 9.65                              | 97              | 72-132              |   |
| n-Hexane                            | 10.0                        | 9.81                              | 98              | 71-131              |   |
| 1,1-Dichloroethane                  | 10.0                        | 9.39                              | 94              | 66-126              |   |
| Methyl Ethyl Ketone<br>(2-Butanone) | 10.0                        | 8.94                              | 89              | 62-122              |   |
| cis-1,2-Dichloroethene              | 10.0                        | 10.5                              | 105             | 67-127              |   |
| Chloroform                          | 10.0                        | 9.97                              | 100             | 69-129              |   |
| Tetrahydrofuran                     | 10.0                        | 8.68                              | 87              | 61-136              |   |
| 1,1,1-Trichloroethane               | 10.0                        | 9.93                              | 99              | 70-130              |   |
| Cyclohexane                         | 10.0                        | 9.61                              | 96              | 69-129              |   |
| Carbon tetrachloride                | 10.0                        | 10.2                              | 102             | 62-143              |   |
| 2,2,4-Trimethylpentane              | 10.0                        | 9.36                              | 94              | 67-127              |   |
| Benzene                             | 10.0                        | 10.5                              | 106             | 67-127              |   |
| 1,2-Dichloroethane                  | 10.0                        | 9.57                              | 96              | 67-132              |   |
| n-Heptane                           | 10.0                        | 9.34                              | 93              | 62-130              |   |
| Trichloroethene                     | 10.0                        | 9.61                              | 96              | 68-128              |   |
| Methyl methacrylate                 | 10.0                        | 8.80                              | 88              | 70-130              |   |
| 1,2-Dichloropropane                 | 10.0                        | 9.02                              | 90              | 67-127              |   |
| 1,4-Dioxane                         | 10.0                        | 10.0                              | 100             | 66-132              |   |
| Bromodichloromethane                | 10.0                        | 10.5                              | 105             | 69-129              |   |
| cis-1,3-Dichloropropene             | 10.0                        | 9.71                              | 97              | 70-130              |   |

# Column to be used to flag recovery and RPD values

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 200-33558-004.D

Lab ID: LCS 200-137867/4

Client ID: \_\_\_\_\_

| COMPOUND                                      | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0                        | 8.55                              | 86              | 62-130              |   |
| Toluene                                       | 10.0                        | 9.98                              | 100             | 67-127              |   |
| trans-1,3-Dichloropropene                     | 10.0                        | 9.36                              | 94              | 69-129              |   |
| 1,1,2-Trichloroethane                         | 10.0                        | 9.70                              | 97              | 69-129              |   |
| Tetrachloroethene                             | 10.0                        | 11.2                              | 112             | 70-130              |   |
| Methyl Butyl Ketone (2-Hexanone)              | 10.0                        | 8.43                              | 84              | 61-127              |   |
| Dibromochloromethane                          | 10.0                        | 11.3                              | 113             | 66-130              |   |
| 1,2-Dibromoethane                             | 10.0                        | 10.1                              | 101             | 70-130              |   |
| Chlorobenzene                                 | 10.0                        | 10.1                              | 101             | 68-128              |   |
| Ethylbenzene                                  | 10.0                        | 9.57                              | 96              | 68-128              |   |
| m,p-Xylene                                    | 20.0                        | 18.9                              | 95              | 68-128              |   |
| o-Xylene                                      | 10.0                        | 9.67                              | 97              | 67-127              |   |
| Styrene                                       | 10.0                        | 9.81                              | 98              | 68-128              |   |
| Bromoform                                     | 10.0                        | 11.1                              | 111             | 34-170              |   |
| Cumene  | 10.0                        | 9.83                              | 98              | 67-127              |   |
| 1,1,2,2-Tetrachloroethane                     | 10.0                        | 9.09                              | 91              | 69-129              |   |
| n-Propylbenzene                               | 10.0                        | 9.42                              | 94              | 67-127              |   |
| 4-Ethyltoluene                                | 10.0                        | 9.62                              | 96              | 69-129              |   |
| 1,3,5-Trimethylbenzene                        | 10.0                        | 9.66                              | 97              | 65-125              |   |
| 2-Chlorotoluene                               | 10.0                        | 9.59                              | 96              | 67-127              |   |
| tert-Butylbenzene                             | 10.0                        | 9.81                              | 98              | 63-125              |   |
| 1,2,4-Trimethylbenzene                        | 10.0                        | 9.69                              | 97              | 65-125              |   |
| sec-Butylbenzene                              | 10.0                        | 9.86                              | 99              | 66-126              |   |
| 4-Isopropyltoluene                            | 10.0                        | 10.0                              | 100             | 67-129              |   |
| 1,3-Dichlorobenzene                           | 10.0                        | 10.0                              | 100             | 67-127              |   |
| 1,4-Dichlorobenzene                           | 10.0                        | 10.2                              | 102             | 66-126              |   |
| Benzyl chloride                               | 10.0                        | 9.08                              | 91              | 54-135              |   |
| n-Butylbenzene                                | 10.0                        | 9.67                              | 97              | 67-127              |   |
| 1,2-Dichlorobenzene                           | 10.0                        | 10.0                              | 100             | 67-127              |   |
| 1,2,4-Trichlorobenzene                        | 10.0                        | 7.90                              | 79              | 59-126              |   |
| Hexachlorobutadiene                           | 10.0                        | 8.55                              | 86              | 62-130              |   |
| Naphthalene                                   | 10.0                        | 7.30                              | 73              | 50-121              |   |

# Column to be used to flag recovery and RPD values

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 33574-4A.D

Lab ID: LCS 200-137900/5

Client ID: \_\_\_\_\_

| COMPOUND                            | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane             | 10.0                        | 11.0                              | 110             | 68-128              |   |
| Chlorodifluoromethane               | 10.0                        | 10.9                              | 109             | 64-128              |   |
| 1,2-Dichlorotetrafluoroethane       | 10.0                        | 10.6                              | 106             | 78-138              |   |
| Chloromethane                       | 10.0                        | 10.7                              | 107             | 57-126              |   |
| n-Butane                            | 10.0                        | 10.6                              | 107             | 56-130              |   |
| Vinyl chloride                      | 10.0                        | 10.5                              | 105             | 62-125              |   |
| 1,3-Butadiene                       | 10.0                        | 10.6                              | 106             | 59-125              |   |
| Bromomethane                        | 10.0                        | 10.8                              | 108             | 68-128              |   |
| Chloroethane                        | 10.0                        | 10.9                              | 109             | 65-125              |   |
| Bromoethene (Vinyl Bromide)         | 10.0                        | 10.8                              | 108             | 67-127              |   |
| Trichlorofluoromethane              | 10.0                        | 10.5                              | 105             | 67-127              |   |
| 1,1,2-Trichlorotrifluoroethane      | 10.0                        | 10.5                              | 105             | 68-128              |   |
| 1,1-Dichloroethene                  | 10.0                        | 10.5                              | 105             | 67-127              |   |
| Acetone                             | 10.0                        | 10.7                              | 107             | 64-136              |   |
| Isopropyl alcohol                   | 10.0                        | 10.1                              | 101             | 55-124              |   |
| Carbon disulfide                    | 10.0                        | 10.4                              | 104             | 81-141              |   |
| 3-Chloropropene                     | 10.0                        | 10.4                              | 104             | 53-133              |   |
| Methylene Chloride                  | 10.0                        | 10.5                              | 105             | 62-122              |   |
| tert-Butyl alcohol                  | 10.0                        | 10.8                              | 108             | 64-124              |   |
| Methyl tert-butyl ether             | 10.0                        | 10.4                              | 104             | 67-127              |   |
| trans-1,2-Dichloroethene            | 10.0                        | 11.3                              | 113             | 72-132              |   |
| n-Hexane                            | 10.0                        | 10.6                              | 106             | 71-131              |   |
| 1,1-Dichloroethane                  | 10.0                        | 10.3                              | 103             | 66-126              |   |
| Methyl Ethyl Ketone<br>(2-Butanone) | 10.0                        | 10.3                              | 103             | 62-122              |   |
| cis-1,2-Dichloroethene              | 10.0                        | 10.2                              | 102             | 67-127              |   |
| Chloroform                          | 10.0                        | 12.6                              | 126             | 69-129              |   |
| Tetrahydrofuran                     | 10.0                        | 8.05                              | 80              | 61-136              |   |
| 1,1,1-Trichloroethane               | 10.0                        | 9.35                              | 94              | 70-130              |   |
| Cyclohexane                         | 10.0                        | 10.1                              | 101             | 69-129              |   |
| Carbon tetrachloride                | 10.0                        | 9.11                              | 91              | 62-143              |   |
| 2,2,4-Trimethylpentane              | 10.0                        | 10.8                              | 108             | 67-127              |   |
| Benzene                             | 10.0                        | 10.2                              | 102             | 67-127              |   |
| 1,2-Dichloroethane                  | 10.0                        | 10.0                              | 100             | 67-132              |   |
| n-Heptane                           | 10.0                        | 11.3                              | 113             | 62-130              |   |
| Trichloroethene                     | 10.0                        | 10.8                              | 108             | 68-128              |   |
| Methyl methacrylate                 | 10.0                        | 11.3                              | 113             | 70-130              |   |
| 1,2-Dichloropropane                 | 10.0                        | 11.9                              | 119             | 67-127              |   |
| 1,4-Dioxane                         | 10.0                        | 10.6                              | 106             | 66-132              |   |
| Bromodichloromethane                | 10.0                        | 10.5                              | 105             | 69-129              |   |
| cis-1,3-Dichloropropene             | 10.0                        | 10.6                              | 106             | 70-130              |   |

# Column to be used to flag recovery and RPD values

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

SDG No.: 200-46353-1

Matrix: Air Level: Low

Lab File ID: 33574-4A.D

Lab ID: LCS 200-137900/5

Client ID: \_\_\_\_\_

| COMPOUND                                      | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | 10.0                        | 11.4                              | 114             | 62-130              |   |
| Toluene                                       | 10.0                        | 10.3                              | 103             | 67-127              |   |
| trans-1,3-Dichloropropene                     | 10.0                        | 10.1                              | 101             | 69-129              |   |
| 1,1,2-Trichloroethane                         | 10.0                        | 10.6                              | 106             | 69-129              |   |
| Tetrachloroethene                             | 10.0                        | 9.47                              | 95              | 70-130              |   |
| Methyl Butyl Ketone (2-Hexanone)              | 10.0                        | 11.2                              | 112             | 61-127              |   |
| Dibromochloromethane                          | 10.0                        | 10.1                              | 101             | 66-130              |   |
| 1,2-Dibromoethane                             | 10.0                        | 10.4                              | 104             | 70-130              |   |
| Chlorobenzene                                 | 10.0                        | 10.1                              | 102             | 68-128              |   |
| Ethylbenzene                                  | 10.0                        | 10.3                              | 103             | 68-128              |   |
| m,p-Xylene                                    | 20.0                        | 20.5                              | 102             | 68-128              |   |
| o-Xylene                                      | 10.0                        | 10.3                              | 103             | 67-127              |   |
| Styrene                                       | 10.0                        | 10.9                              | 109             | 68-128              |   |
| Bromoform                                     | 10.0                        | 9.87                              | 99              | 34-170              |   |
| Cumene  | 10.0                        | 10.3                              | 103             | 67-127              |   |
| 1,1,2,2-Tetrachloroethane                     | 10.0                        | 10.9                              | 109             | 69-129              |   |
| n-Propylbenzene                               | 10.0                        | 10.5                              | 105             | 67-127              |   |
| 4-Ethyltoluene                                | 10.0                        | 10.3                              | 103             | 69-129              |   |
| 1,3,5-Trimethylbenzene                        | 10.0                        | 10.1                              | 102             | 65-125              |   |
| 2-Chlorotoluene                               | 10.0                        | 10.2                              | 102             | 67-127              |   |
| tert-Butylbenzene                             | 10.0                        | 9.98                              | 100             | 63-125              |   |
| 1,2,4-Trimethylbenzene                        | 10.0                        | 10.2                              | 102             | 65-125              |   |
| sec-Butylbenzene                              | 10.0                        | 10.4                              | 104             | 66-126              |   |
| 4-Isopropyltoluene                            | 10.0                        | 10.2                              | 102             | 67-129              |   |
| 1,3-Dichlorobenzene                           | 10.0                        | 10.1                              | 101             | 67-127              |   |
| 1,4-Dichlorobenzene                           | 10.0                        | 10.1                              | 101             | 66-126              |   |
| Benzyl chloride                               | 10.0                        | 9.67                              | 97              | 54-135              |   |
| n-Butylbenzene                                | 10.0                        | 10.8                              | 108             | 67-127              |   |
| 1,2-Dichlorobenzene                           | 10.0                        | 10.1                              | 101             | 67-127              |   |
| 1,2,4-Trichlorobenzene                        | 10.0                        | 8.97                              | 90              | 59-126              |   |
| Hexachlorobutadiene                           | 10.0                        | 8.88                              | 89              | 62-130              |   |
| Naphthalene                                   | 10.0                        | 9.25                              | 92              | 50-121              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 200-33531-005.D Lab Sample ID: MB 200-137819/5  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHG.i Date Analyzed: 12/05/2018 17:29  
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB FILE ID         | DATE ANALYZED    |
|------------------|------------------|---------------------|------------------|
|                  | LCS 200-137819/6 | 200-33531-0<br>06.D | 12/05/2018 18:19 |
| AA-1_20181120    | 200-46353-1      | 200-33531-0<br>17.D | 12/06/2018 03:30 |
| IA-1_20181120    | 200-46353-2      | 200-33531-0<br>18.D | 12/06/2018 04:21 |
| IA-2_20181120    | 200-46353-3      | 200-33531-0<br>19.D | 12/06/2018 05:11 |
| IA-3_20181120    | 200-46353-4      | 200-33531-0<br>20.D | 12/06/2018 06:01 |
| IA-4_20181120    | 200-46353-5      | 200-33531-0<br>21.D | 12/06/2018 06:51 |
| IA-5_20181120    | 200-46353-6      | 200-33531-0<br>22.D | 12/06/2018 07:42 |
| MP-1_20181120    | 200-46353-7      | 200-33531-0<br>23.D | 12/06/2018 08:32 |
| MP-2_20181120    | 200-46353-8      | 200-33531-0<br>24.D | 12/06/2018 09:23 |
| MP-3_20181120    | 200-46353-9      | 200-33531-0<br>25.D | 12/06/2018 10:13 |

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 200-33558-005.D Lab Sample ID: MB 200-137867/5  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHG.i Date Analyzed: 12/06/2018 17:33  
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB FILE ID         | DATE ANALYZED    |
|------------------|------------------|---------------------|------------------|
|                  | LCS 200-137867/4 | 200-33558-0<br>04.D | 12/06/2018 16:43 |
| IA-5_20181120 DL | 200-46353-6 DL   | 200-33558-0<br>11.D | 12/06/2018 22:33 |
| MP-4_20181120    | 200-46353-10     | 200-33558-0<br>12.D | 12/06/2018 23:23 |
| MP-5_20181119    | 200-46353-11     | 200-33558-0<br>13.D | 12/07/2018 00:13 |

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 33574-05.D Lab Sample ID: MB 200-137900/6  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHC.i Date Analyzed: 12/07/2018 15:52  
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 200-137900/5 | 33574-4A.D     | 12/07/2018 14:59 |
| IA-1_20181120 DL | 200-46353-2 DL   | 33574-06.D     | 12/07/2018 16:45 |



FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 33516-01A.D BFB Injection Date: 12/04/2018  
 Instrument ID: CHC.i BFB Injection Time: 18:02  
 Analysis Batch No.: 137783

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 20.6                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 56.1                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |          |
| 173 | Less than 2.0% of mass 174         | 0.0                  | (0.0) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 86.2                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 6.6                  | (7.7) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 83.4                 | (96.7) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 5.5                  | (6.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|-------------|---------------|---------------|
|                  | IC 200-137783/4   | 33516-04.D  | 12/04/2018    | 20:51         |
|                  | IC 200-137783/5   | 33516-05.D  | 12/04/2018    | 21:44         |
|                  | IC 200-137783/6   | 33516-06.D  | 12/04/2018    | 22:37         |
|                  | IC 200-137783/7   | 33516-07.D  | 12/04/2018    | 23:31         |
|                  | ICIS 200-137783/8 | 33516-08.D  | 12/05/2018    | 00:25         |
|                  | IC 200-137783/10  | 33516-10.D  | 12/05/2018    | 02:11         |
|                  | IC 200-137783/11  | 33516-11.D  | 12/05/2018    | 03:05         |
|                  | IC 200-137783/18  | 33516-18.D  | 12/05/2018    | 09:17         |
|                  | ICV 200-137783/21 | 33516-21.D  | 12/05/2018    | 11:56         |

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 33574-01.D BFB Injection Date: 12/07/2018  
 Instrument ID: CHC.i BFB Injection Time: 11:07  
 Analysis Batch No.: 137900

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 21.6                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 54.8                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |          |
| 173 | Less than 2.0% of mass 174         | 0.0                  | (0.0) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 74.6                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.6                  | (7.6) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 72.7                 | (97.5) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 4.9                  | (6.7) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 200-137900/3 | 33574-03.D  | 12/07/2018    | 12:44         |
|                  | LCS 200-137900/5   | 33574-4A.D  | 12/07/2018    | 14:59         |
|                  | MB 200-137900/6    | 33574-05.D  | 12/07/2018    | 15:52         |
| IA-1_20181120 DL | 200-46353-2 DL     | 33574-06.D  | 12/07/2018    | 16:45         |

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 200-33385-001.D BFB Injection Date: 11/27/2018  
 Instrument ID: CHG.i BFB Injection Time: 17:52  
 Analysis Batch No.: 137447

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 23.8                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 56.7                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |          |
| 173 | Less than 2.0% of mass 174         | 0.3                  | (0.4) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 69.1                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.0                  | (7.3) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 68.2                 | (98.7) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 4.5                  | (6.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB FILE ID         | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|---------------------|---------------|---------------|
|                  | IC 200-137447/4   | 200-33385-00<br>4.D | 11/27/2018    | 20:22         |
|                  | IC 200-137447/5   | 200-33385-00<br>5.D | 11/27/2018    | 21:13         |
|                  | IC 200-137447/6   | 200-33385-00<br>6.D | 11/27/2018    | 22:03         |
|                  | IC 200-137447/7   | 200-33385-00<br>7.D | 11/27/2018    | 22:54         |
|                  | ICIS 200-137447/8 | 200-33385-00<br>8.D | 11/27/2018    | 23:44         |
|                  | IC 200-137447/9   | 200-33385-00<br>9.D | 11/28/2018    | 00:35         |
|                  | IC 200-137447/10  | 200-33385-01<br>0.D | 11/28/2018    | 01:25         |
|                  | IC 200-137447/11  | 200-33385-01<br>1.D | 11/28/2018    | 02:15         |
|                  | ICV 200-137447/15 | 200-33385-01<br>5.D | 11/28/2018    | 05:37         |

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 200-33531-001.D BFB Injection Date: 12/05/2018  
 Instrument ID: CHG.i BFB Injection Time: 14:11  
 Analysis Batch No.: 137819

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 21.0                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 52.3                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |          |
| 173 | Less than 2.0% of mass 174         | 0.3                  | (0.4) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 76.8                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.4                  | (7.1) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 75.1                 | (97.9) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 5.0                  | (6.7) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID         | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|---------------------|---------------|---------------|
|                  | CCVIS 200-137819/3 | 200-33531-00<br>3.D | 12/05/2018    | 15:48         |
|                  | MB 200-137819/5    | 200-33531-00<br>5.D | 12/05/2018    | 17:29         |
|                  | LCS 200-137819/6   | 200-33531-00<br>6.D | 12/05/2018    | 18:19         |
| AA-1_20181120    | 200-46353-1        | 200-33531-01<br>7.D | 12/06/2018    | 03:30         |
| IA-1_20181120    | 200-46353-2        | 200-33531-01<br>8.D | 12/06/2018    | 04:21         |
| IA-2_20181120    | 200-46353-3        | 200-33531-01<br>9.D | 12/06/2018    | 05:11         |
| IA-3_20181120    | 200-46353-4        | 200-33531-02<br>0.D | 12/06/2018    | 06:01         |
| IA-4_20181120    | 200-46353-5        | 200-33531-02<br>1.D | 12/06/2018    | 06:51         |
| IA-5_20181120    | 200-46353-6        | 200-33531-02<br>2.D | 12/06/2018    | 07:42         |
| MP-1_20181120    | 200-46353-7        | 200-33531-02<br>3.D | 12/06/2018    | 08:32         |
| MP-2_20181120    | 200-46353-8        | 200-33531-02<br>4.D | 12/06/2018    | 09:23         |
| MP-3_20181120    | 200-46353-9        | 200-33531-02<br>5.D | 12/06/2018    | 10:13         |

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab File ID: 200-33558-001.D BFB Injection Date: 12/06/2018  
 Instrument ID: CHG.i BFB Injection Time: 14:19  
 Analysis Batch No.: 137867

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 18.5                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 49.7                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |          |
| 173 | Less than 2.0% of mass 174         | 0.4                  | (0.4) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 81.4                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.7                  | (7.0) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 80.3                 | (98.6) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 5.3                  | (6.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID         | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|---------------------|---------------|---------------|
|                  | CCVIS 200-137867/3 | 200-33558-00<br>3.D | 12/06/2018    | 15:53         |
|                  | LCS 200-137867/4   | 200-33558-00<br>4.D | 12/06/2018    | 16:43         |
|                  | MB 200-137867/5    | 200-33558-00<br>5.D | 12/06/2018    | 17:33         |
| IA-5_20181120 DL | 200-46353-6 DL     | 200-33558-01<br>1.D | 12/06/2018    | 22:33         |
| MP-4_20181120    | 200-46353-10       | 200-33558-01<br>2.D | 12/06/2018    | 23:23         |
| MP-5_20181119    | 200-46353-11       | 200-33558-01<br>3.D | 12/07/2018    | 00:13         |

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Sample No.: ICIS 200-137783/8 Date Analyzed: 12/05/2018 00:25  
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 33516-08.D Heated Purge: (Y/N) N  
 Calibration ID: 40721

|                               | BCM              |       | DFBZ    |       | CBNZd5  |       |
|-------------------------------|------------------|-------|---------|-------|---------|-------|
|                               | AREA #           | RT #  | AREA #  | RT #  | AREA #  | RT #  |
| INITIAL CALIBRATION MID-POINT | 193200           | 10.23 | 1108113 | 12.21 | 1179025 | 18.25 |
| UPPER LIMIT                   | 270480           | 10.56 | 1551358 | 12.54 | 1650635 | 18.58 |
| LOWER LIMIT                   | 115920           | 9.90  | 664868  | 11.88 | 707415  | 17.92 |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |       |         |       |         |       |
| ICV 200-137783/21             | 260828           | 10.23 | 1515624 | 12.21 | 1580065 | 18.25 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Sample No.: CCVIS 200-137900/3 Date Analyzed: 12/07/2018 12:44  
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 33574-03.D Heated Purge: (Y/N) N  
 Calibration ID: 40721

|                  | BCM              |        | DFBZ    |         | CBNZd5  |         |       |
|------------------|------------------|--------|---------|---------|---------|---------|-------|
|                  | AREA #           | RT #   | AREA #  | RT #    | AREA #  | RT #    |       |
| 12/24 HOUR STD   | 177245           | 10.23  | 1012310 | 12.21   | 1043244 | 18.24   |       |
| UPPER LIMIT      | 248143           | 10.56  | 1417234 | 12.54   | 1460542 | 18.57   |       |
| LOWER LIMIT      | 106347           | 9.90   | 607386  | 11.88   | 625946  | 17.91   |       |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |        |         |         |         |         |       |
| LCS 200-137900/5 | 180149           | 10.22  | 1311864 | 12.21   | 1362759 | 18.24   |       |
| MB 200-137900/6  | 171771           | 10.23  | 963517  | 12.21   | 1183871 | 18.24   |       |
| 200-46353-2 DL   | IA-1_20181120 DL | 221752 | 10.22   | 1256820 | 12.21   | 1235342 | 18.24 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits



FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Sample No.: ICIS 200-137447/8 Date Analyzed: 11/27/2018 23:44  
 Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 200-33385-008.D Heated Purge: (Y/N) N  
 Calibration ID: 40668

|                               | BCM              |      | DFBZ     |       | CBNZd5  |       |
|-------------------------------|------------------|------|----------|-------|---------|-------|
|                               | AREA #           | RT # | AREA #   | RT #  | AREA #  | RT #  |
| INITIAL CALIBRATION MID-POINT | 974604           | 9.16 | 3462989  | 11.02 | 3487050 | 16.96 |
| UPPER LIMIT                   | 1364446          | 9.49 | 4848185  | 11.35 | 4881870 | 17.29 |
| LOWER LIMIT                   | 584762           | 8.83 | 2077793  | 10.69 | 2092230 | 16.63 |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |      |          |       |         |       |
| ICV 200-137447/15             | 1131202          | 9.16 | 5003919* | 11.02 | 4555708 | 16.96 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Sample No.: CCVIS 200-137819/3 Date Analyzed: 12/05/2018 15:48  
 Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 200-33531-003.D Heated Purge: (Y/N) N  
 Calibration ID: 40668

|                  | BCM              |        | DFBZ    |         | CBNZd5  |         |       |
|------------------|------------------|--------|---------|---------|---------|---------|-------|
|                  | AREA #           | RT #   | AREA #  | RT #    | AREA #  | RT #    |       |
| 12/24 HOUR STD   | 645208           | 9.16   | 2855376 | 11.02   | 2611220 | 16.96   |       |
| UPPER LIMIT      | 903291           | 9.49   | 3997526 | 11.35   | 3655708 | 17.29   |       |
| LOWER LIMIT      | 387125           | 8.83   | 1713226 | 10.69   | 1566732 | 16.63   |       |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |        |         |         |         |         |       |
| MB 200-137819/5  | 661137           | 9.15   | 2878946 | 11.01   | 2834161 | 16.96   |       |
| LCS 200-137819/6 | 697703           | 9.16   | 3498401 | 11.02   | 3124165 | 16.96   |       |
| 200-46353-1      | AA-1_20181120    | 563024 | 9.15    | 2336649 | 11.01   | 2458172 | 16.96 |
| 200-46353-2      | IA-1_20181120    | 594049 | 9.16    | 2814494 | 11.01   | 2606476 | 16.96 |
| 200-46353-3      | IA-2_20181120    | 558007 | 9.15    | 2403809 | 11.01   | 2400767 | 16.95 |
| 200-46353-4      | IA-3_20181120    | 619684 | 9.15    | 2953990 | 11.01   | 2623869 | 16.95 |
| 200-46353-5      | IA-4_20181120    | 578523 | 9.15    | 2225579 | 11.01   | 2260849 | 16.96 |
| 200-46353-6      | IA-5_20181120    | 592709 | 9.15    | 2633468 | 11.01   | 2499919 | 16.96 |
| 200-46353-7      | MP-1_20181120    | 633540 | 9.15    | 2988260 | 11.01   | 2799162 | 16.96 |
| 200-46353-8      | MP-2_20181120    | 553071 | 9.15    | 2510211 | 11.01   | 2621499 | 16.95 |
| 200-46353-9      | MP-3_20181120    | 518756 | 9.15    | 1864000 | 11.01   | 2086875 | 16.96 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Sample No.: CCVIS 200-137867/3 Date Analyzed: 12/06/2018 15:53  
 Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 200-33558-003.D Heated Purge: (Y/N) N  
 Calibration ID: 40668

|                  | BCM              |      | DFBZ    |       | CBNZd5  |       |         |       |
|------------------|------------------|------|---------|-------|---------|-------|---------|-------|
|                  | AREA #           | RT # | AREA #  | RT #  | AREA #  | RT #  |         |       |
| 12/24 HOUR STD   | 647200           | 9.15 | 3195571 | 11.02 | 3000021 | 16.96 |         |       |
| UPPER LIMIT      | 906080           | 9.48 | 4473799 | 11.35 | 4200029 | 17.29 |         |       |
| LOWER LIMIT      | 388320           | 8.82 | 1917343 | 10.69 | 1800013 | 16.63 |         |       |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |      |         |       |         |       |         |       |
| LCS 200-137867/4 |                  |      | 578882  | 9.15  | 2565414 | 11.01 | 2438923 | 16.96 |
| MB 200-137867/5  |                  |      | 525512  | 9.15  | 2113688 | 11.01 | 2238866 | 16.95 |
| 200-46353-6 DL   | IA-5_20181120 DL |      | 558309  | 9.15  | 2402407 | 11.01 | 2415939 | 16.95 |
| 200-46353-10     | MP-4_20181120    |      | 535439  | 9.15  | 2151718 | 11.01 | 2127975 | 16.95 |
| 200-46353-11     | MP-5_20181119    |      | 502379  | 9.15  | 1993319 | 11.01 | 2094054 | 16.95 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.54   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.0    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.25   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 6.5    |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.26   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.83   |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.25   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.036  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.36   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 0.80   |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 4.8    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.4    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 16     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 0.93   |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.4    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.87   |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.23   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.1    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.84   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.0    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Lims ID: 200-46353-A-1  
 Client ID: AA-1\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 03:30:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-017  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 16:30:45 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa

Date:

06-Dec-2018 16:30:45

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.155         | -0.011         | 98  | 121190   | 0.5770            |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.181         | 0.000          | 97  | 44499    | 0.4977            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.347     | 3.347         | -0.006         | 86  | 3289     | 0.0208            | 7M    |
| 5 Chloromethane               | 50  | 3.454     | 3.465         | -0.011         | 99  | 21986    | 0.5379            |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000          | 96  | 111861   | 2.03              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |     |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.711         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.754     | 4.760         | -0.006         | 97  | 41320    | 0.2489            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000          | 88  | 8011     | 0.0685            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000          | 99  | 286628   | 6.54              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.011         | -0.006         | 52  | 2178     | 0.0165            | M     |
| 24 Isopropyl alcohol          | 45  | 6.124     | 6.097         | 0.027          | 100 | 60781    | 1.25              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |     |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.546     | 6.557         | -0.011         | 81  | 9915     | 0.2135            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.814     | 6.771         | 0.043          | 82  | 9684     | 0.1308            |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |                |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |                |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.290     | 7.279         | 0.011          | 84  | 13113    | 0.2638            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.788     | 8.793         | -0.005         | 98  | 13026    | 0.8282            |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.152         | 0.000          | 73  | 563024   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |                |     |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.264     | 9.264         | -0.005         | 33  | 3942     | 0.0335            | M     |
| 43 Cyclohexane                | 84  | 9.521     | 9.521         | -0.010         | 94  | 13553    | 0.2527            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.778     | 9.778         | -0.005         | 70  | 5042     | 0.0363            |       |
| 46 Isooctane                  | 57  | 10.195    | 10.195        | 0.000          | 54  | 23819    | 0.1343            | M     |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.216    | 10.211        | 0.000         | 97 | 44406    | 0.3569            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.564    | 10.564        | -0.011        | 83 | 13096    | 0.2046            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2336649  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                | Ua    |
| 65 Toluene                     | 92  | 14.063    | 14.068        | -0.005        | 96 | 80020    | 0.8036            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.133    | 15.143        | -0.010        | 91 | 18631    | 0.1563            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 84 | 2458172  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                |       |
| 76 Ethylbenzene                | 91  | 17.182    | 17.182        | 0.000         | 97 | 28182    | 0.1257            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.433        | 0.005         | 0  | 38037    | 0.4185            |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.294        | -0.005        | 98 | 14265    | 0.1651            |       |
| 80 Styrene                     | 104 | 18.337    | 18.337        | 0.000         | 59 | 3351     | 0.0253            | M     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.049        |               |    |          | ND                | Ua    |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.840    | 19.840        | -0.006        | 78 | 6336     | 0.0211            | M     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.054        | 0.000         | 72 | 7354     | 0.0287            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.177        | -0.005        | 58 | 7613     | 0.0348            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.803    | 20.798        | 0.005         | 96 | 20642    | 0.0955            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 | 21.413    | 21.413        | -0.005        | 94 | 6300     | 0.0376            | a     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |

### QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Worklist Smp#: 17

Client ID: AA-1\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

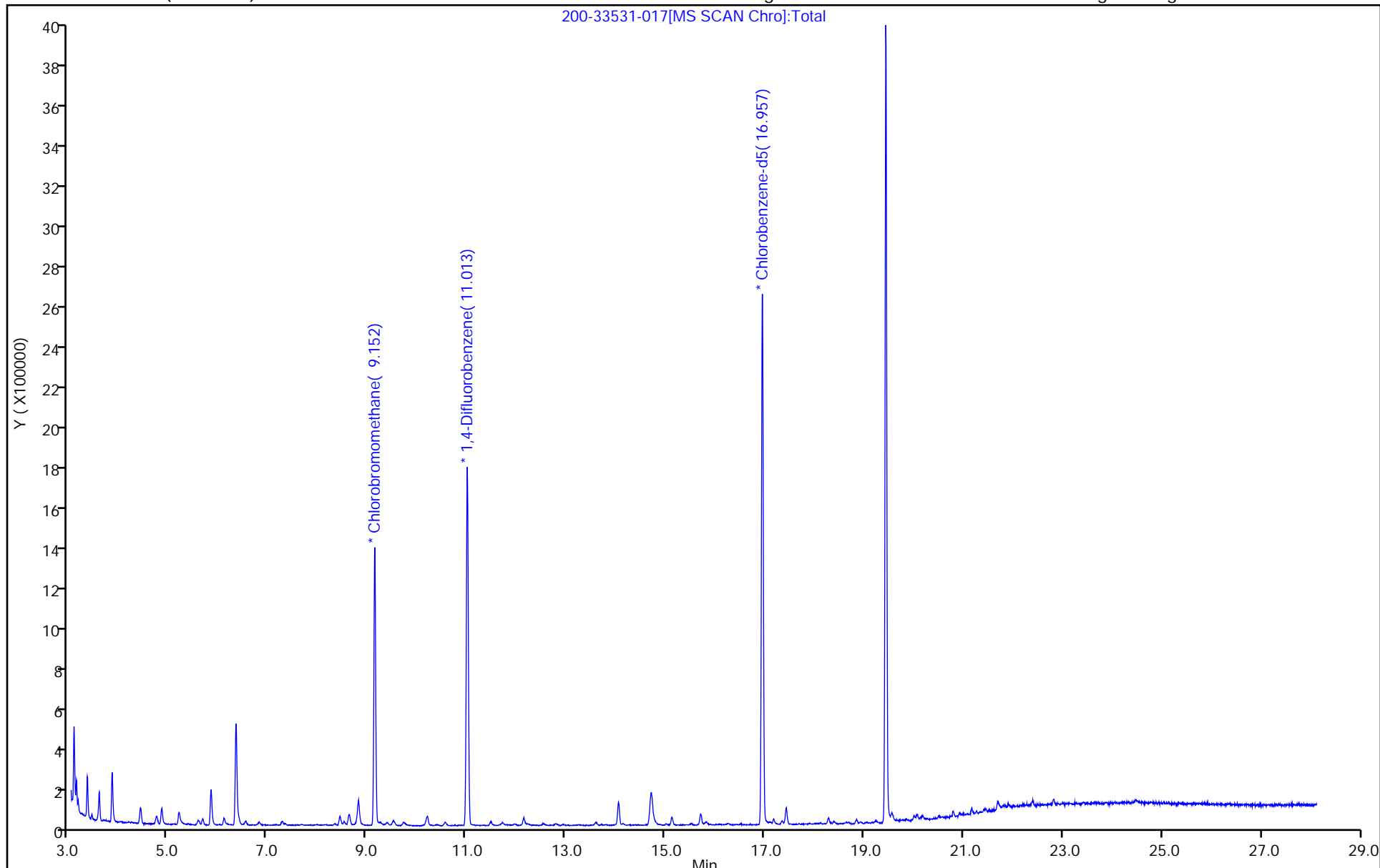
ALS Bottle#: 17

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

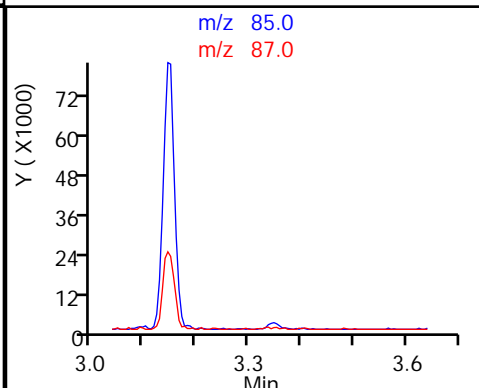
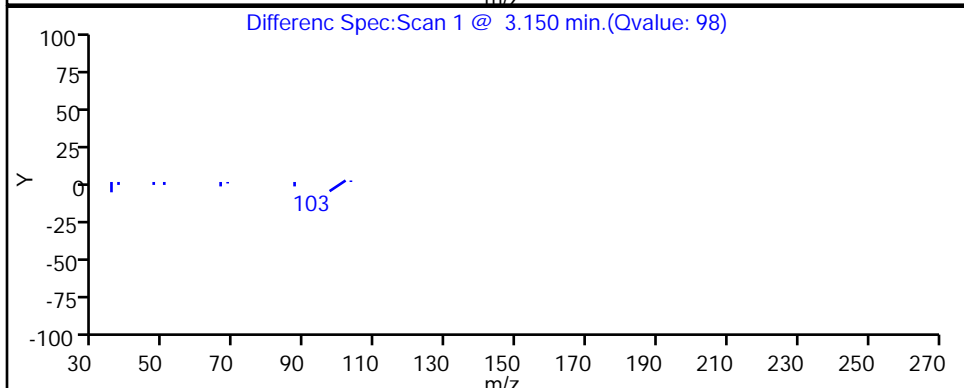
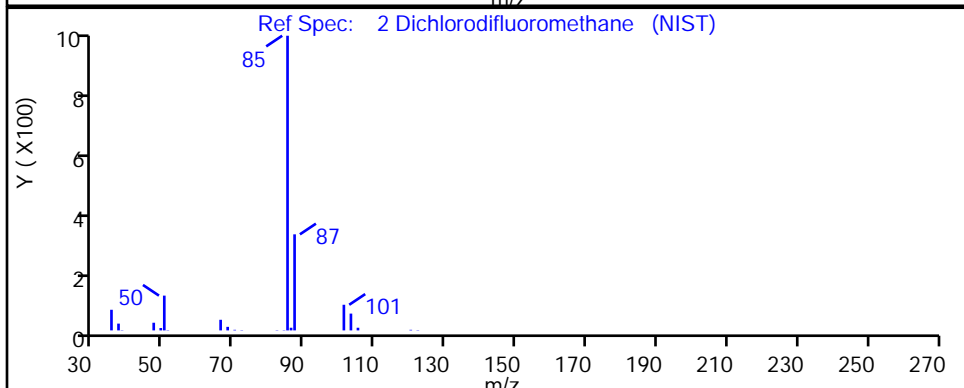
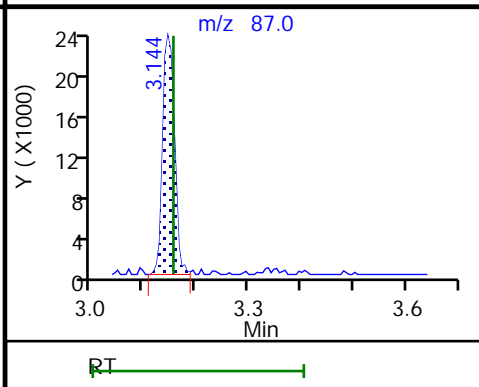
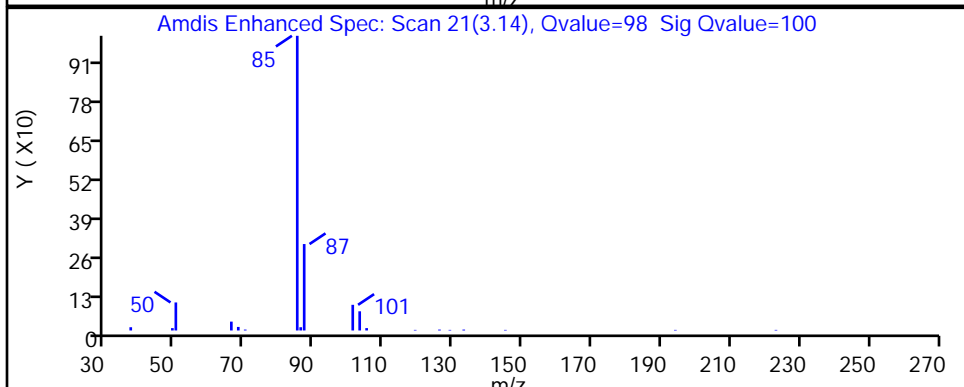
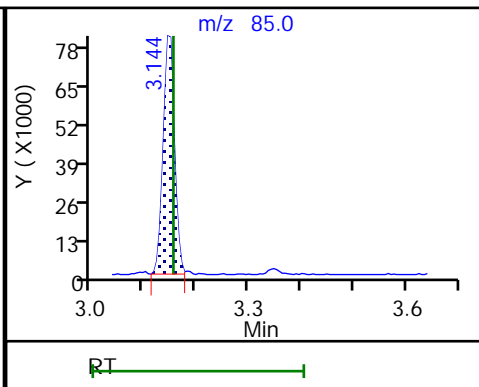
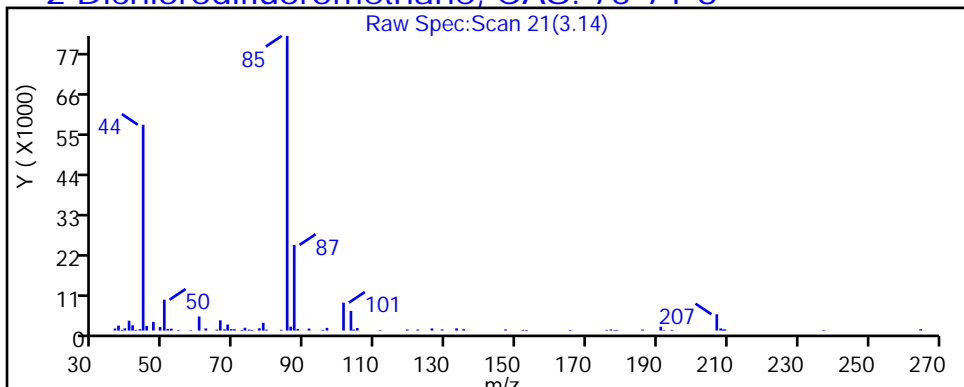
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

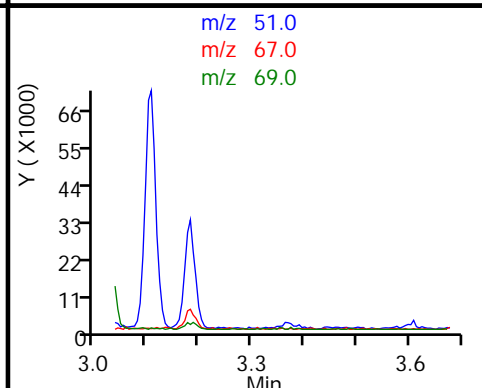
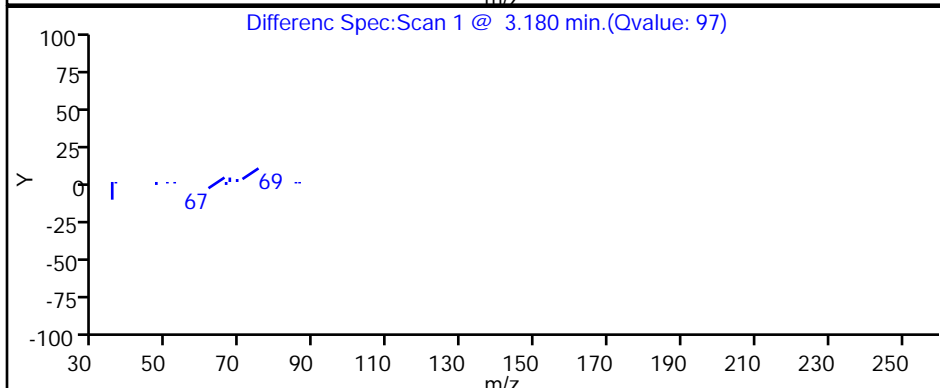
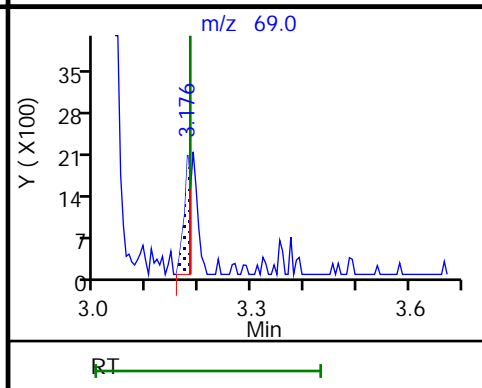
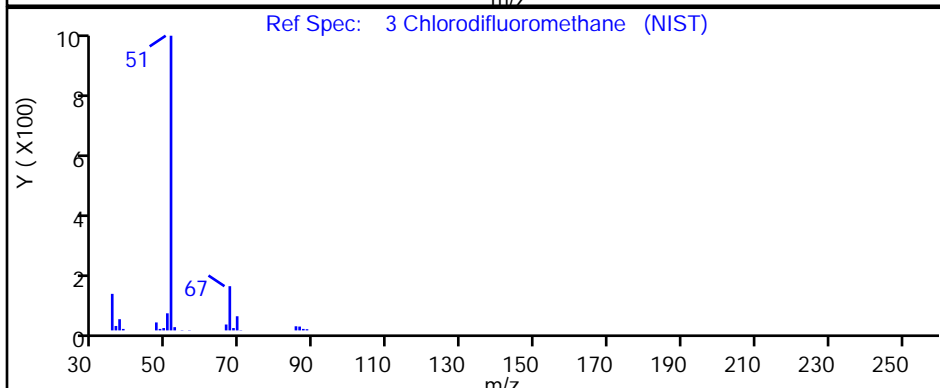
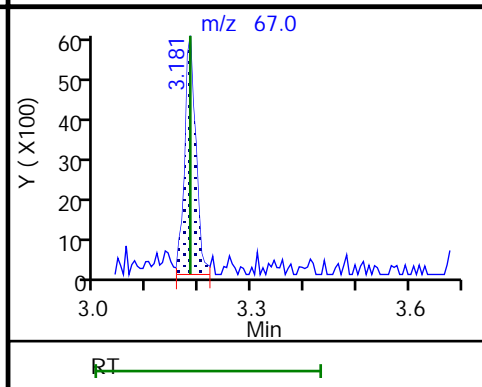
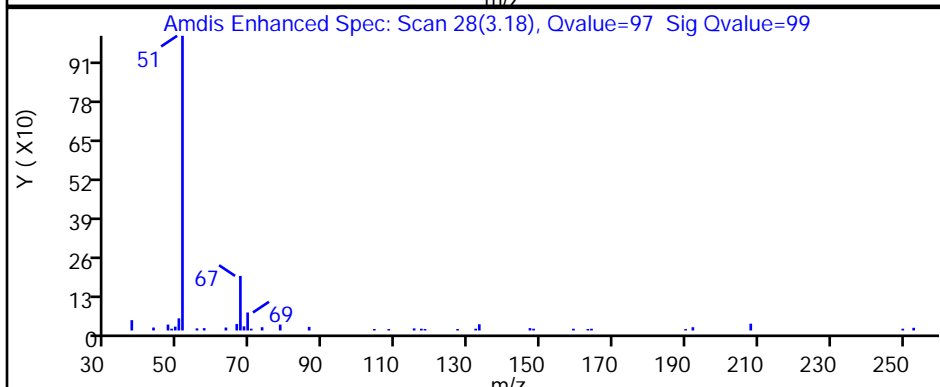
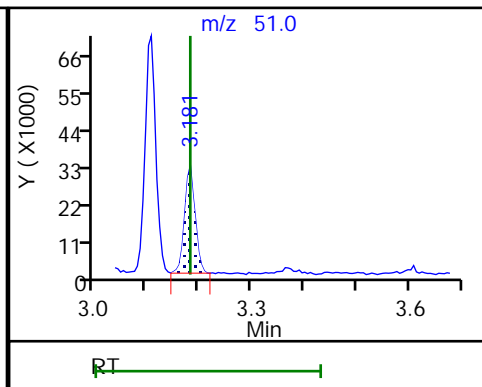
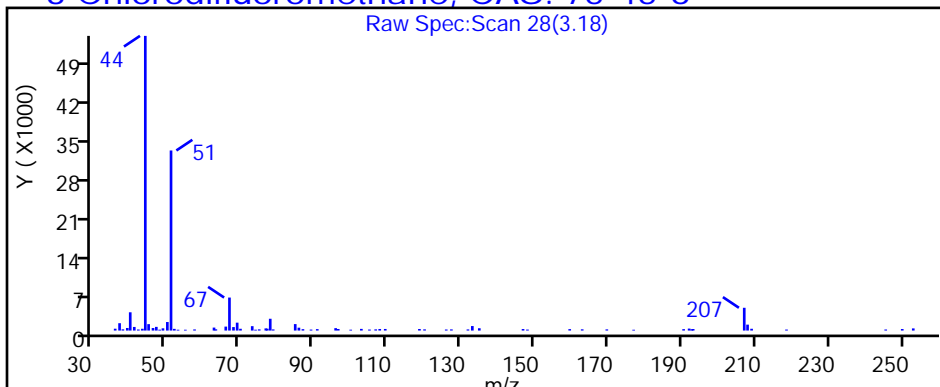
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

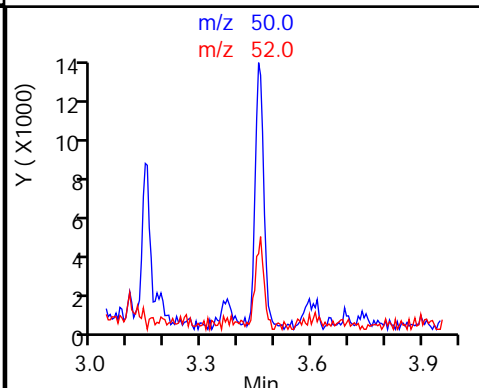
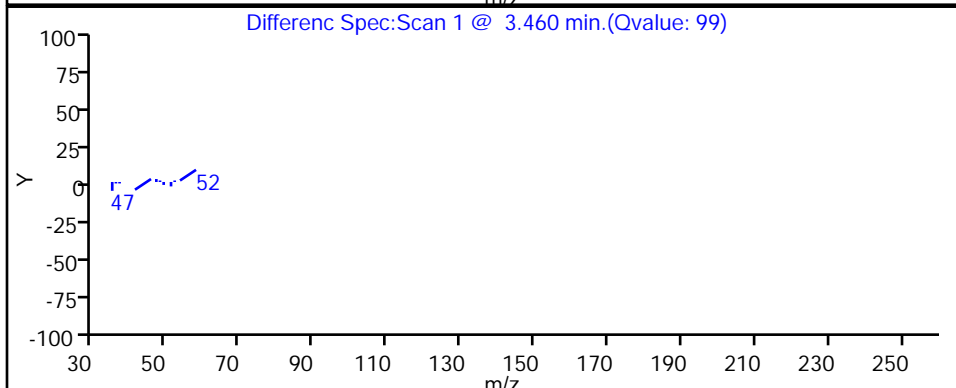
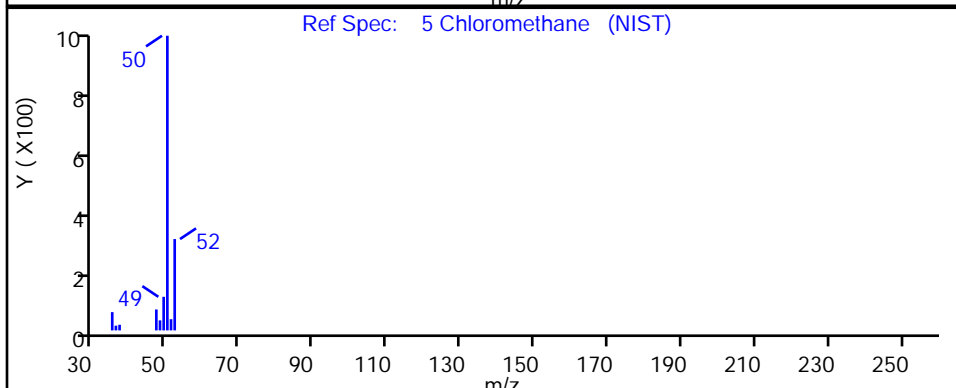
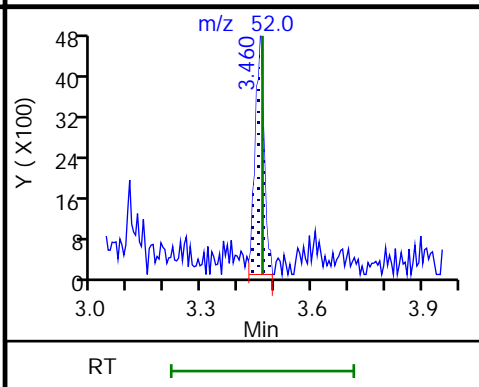
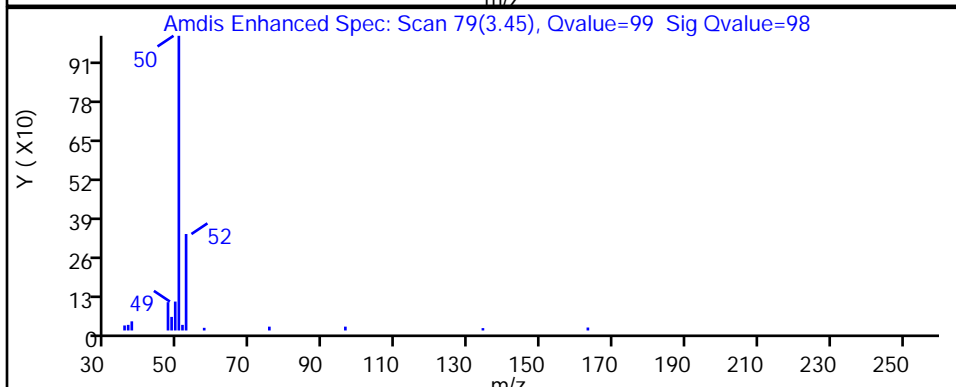
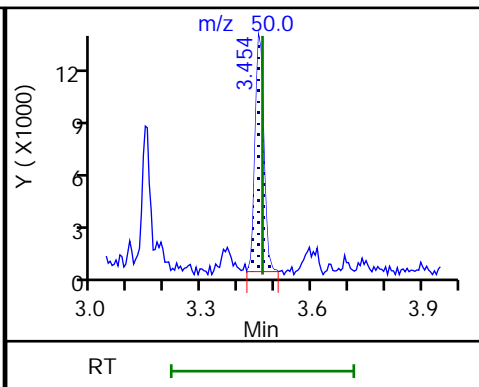
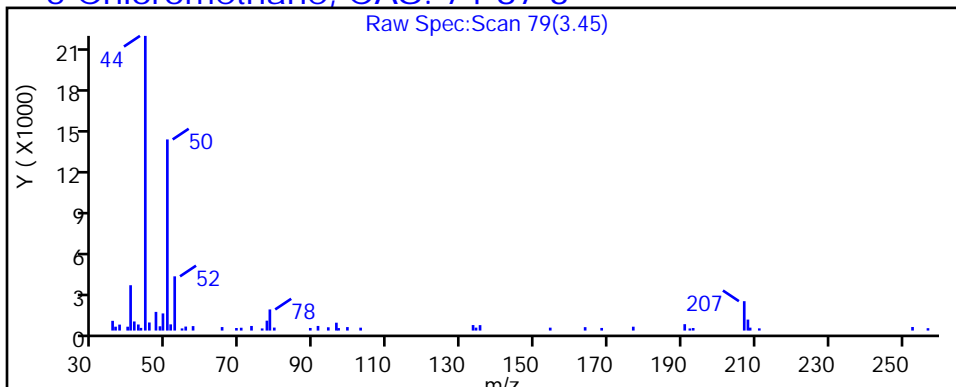
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

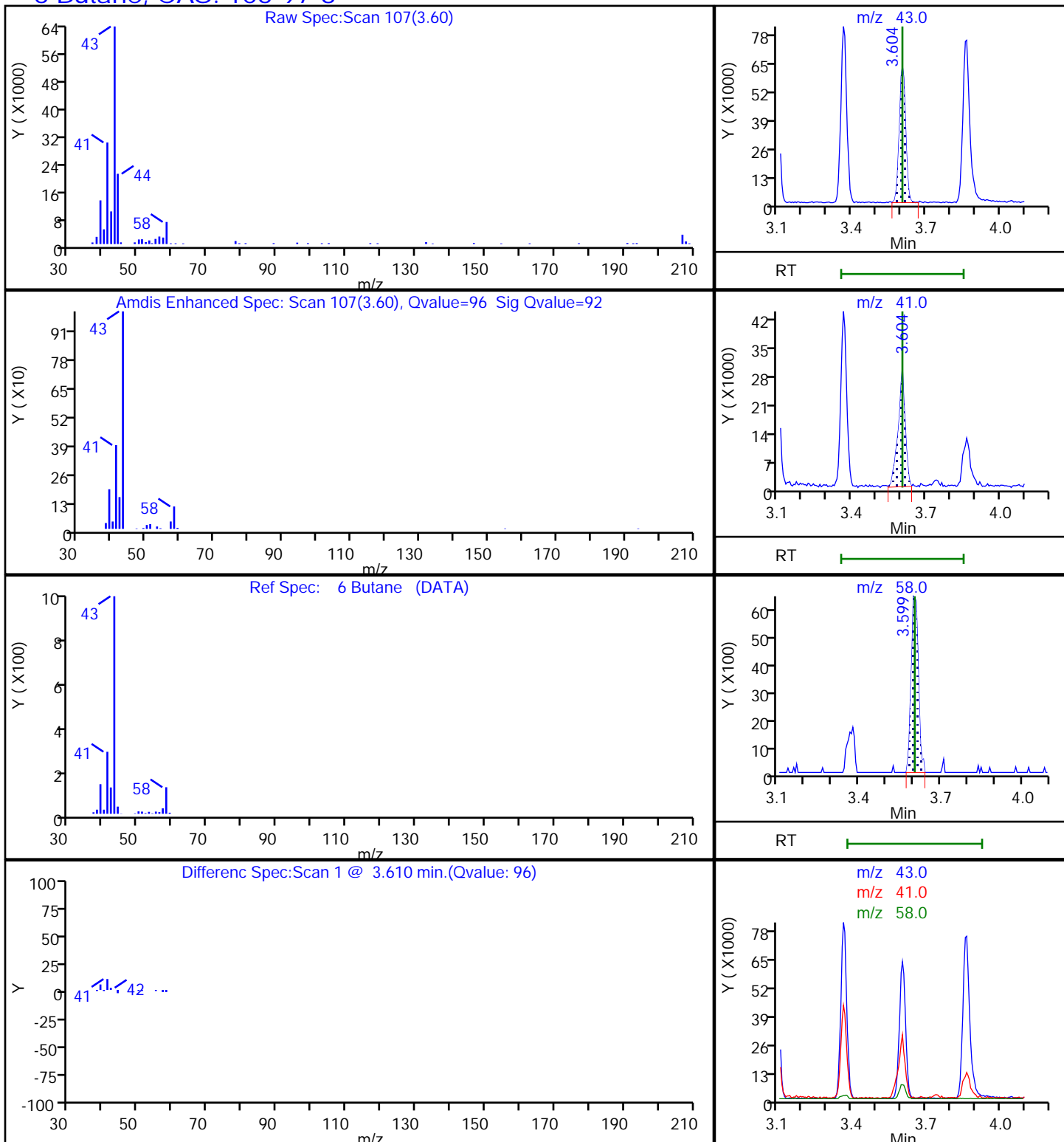
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

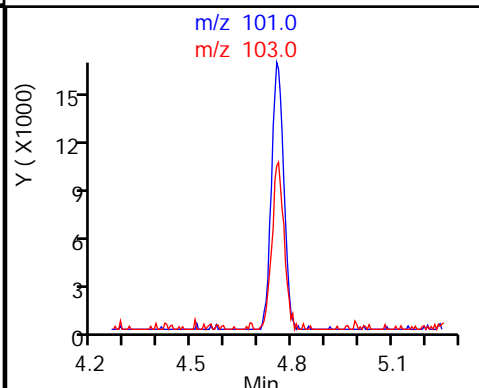
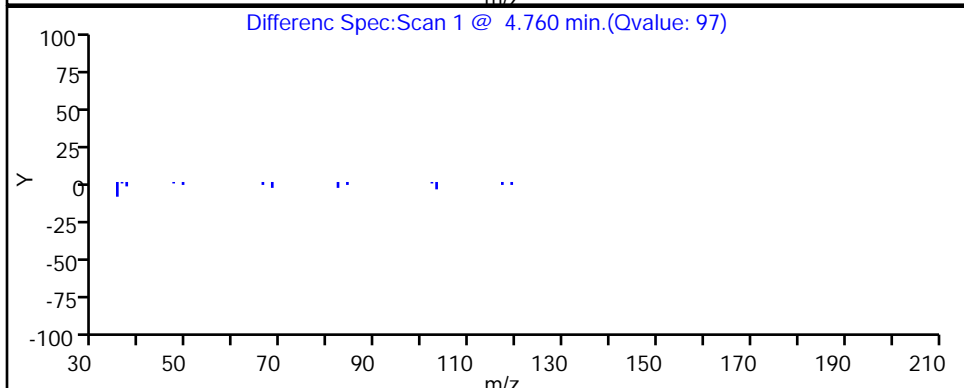
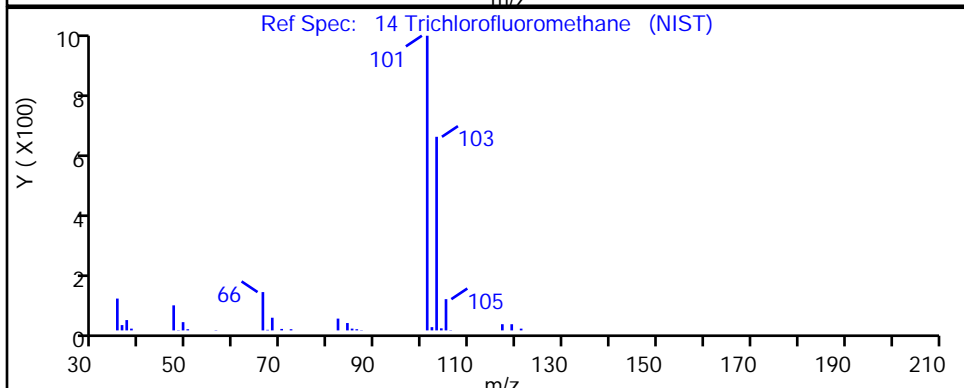
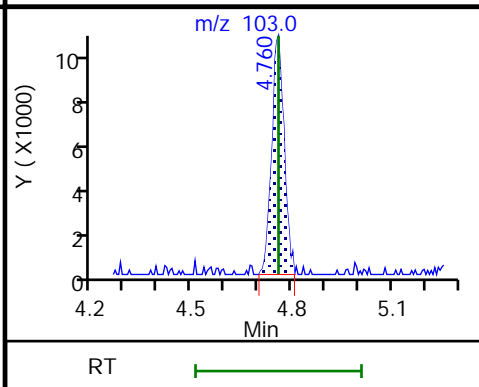
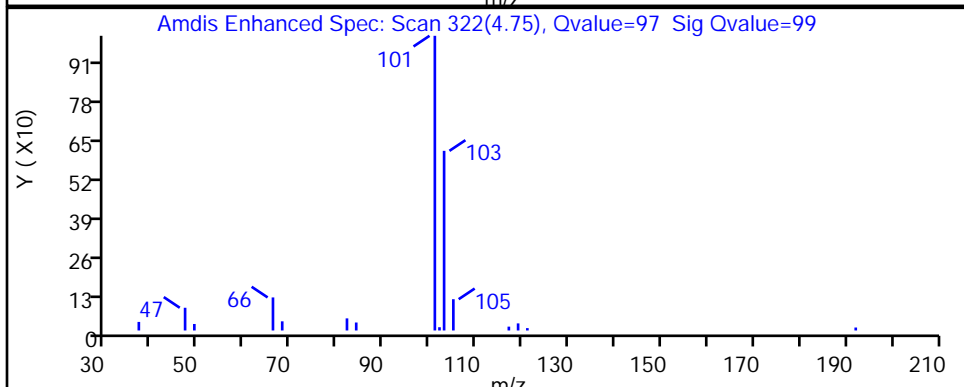
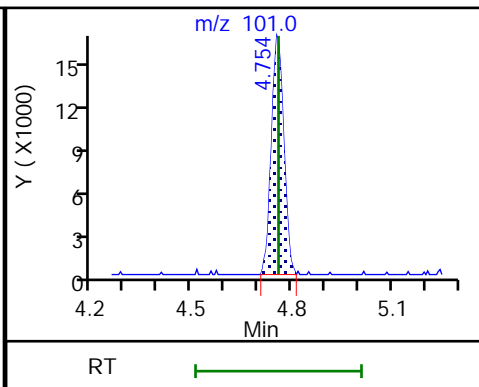
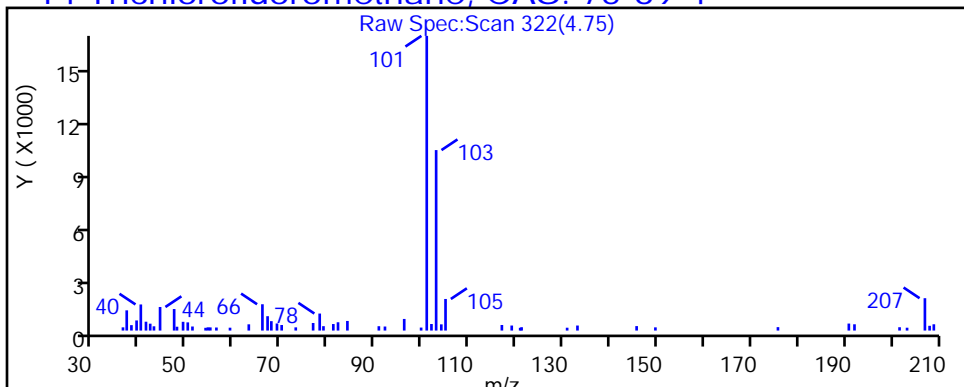
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

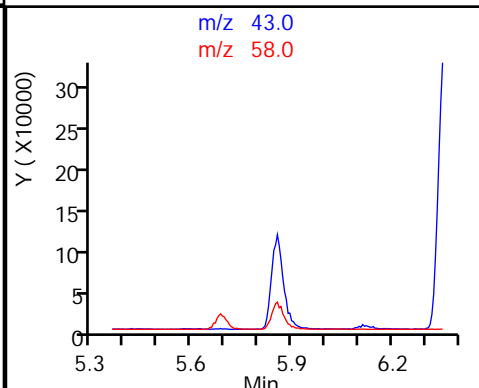
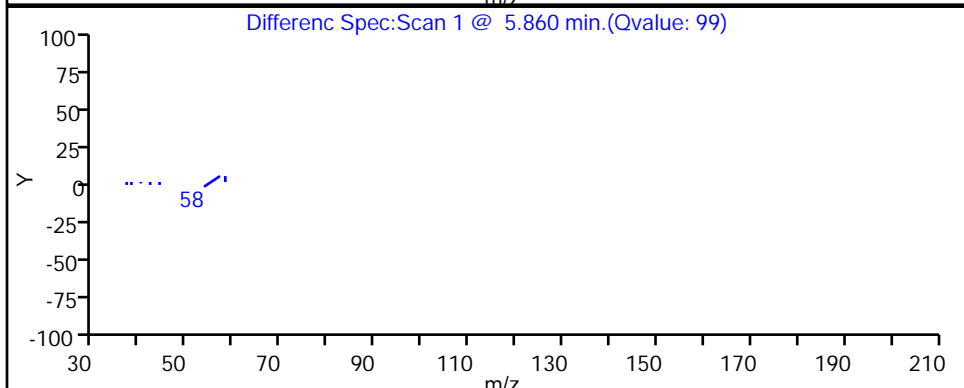
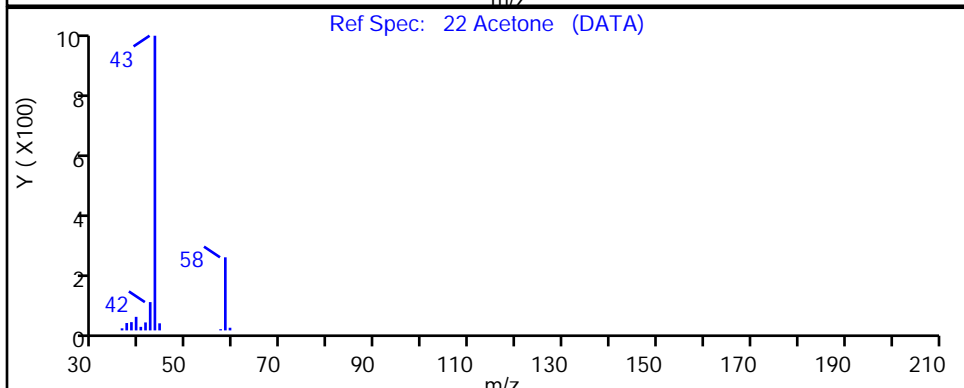
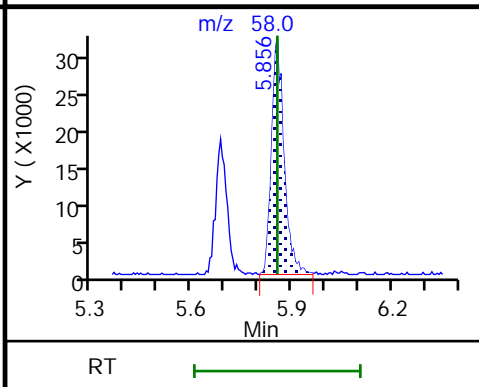
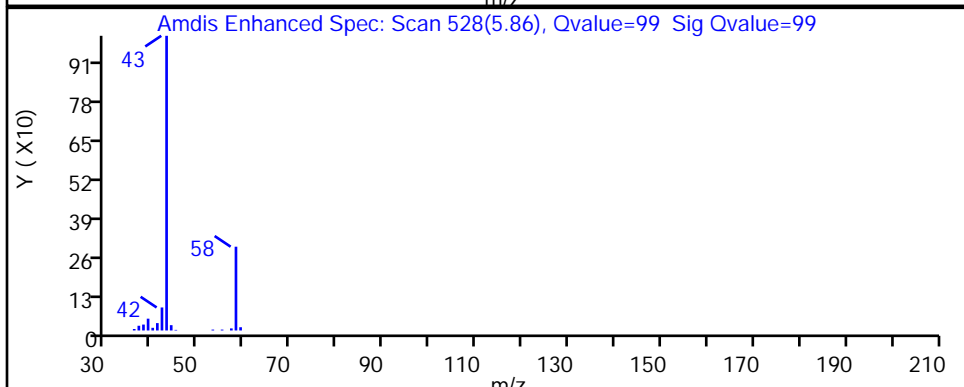
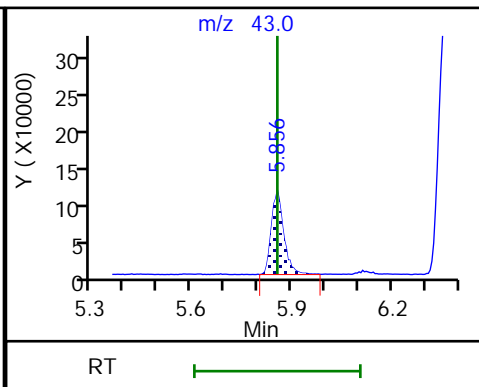
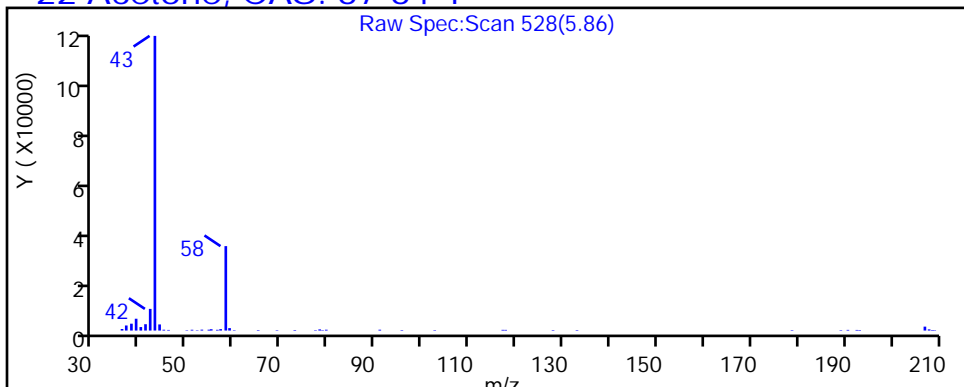
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17

Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

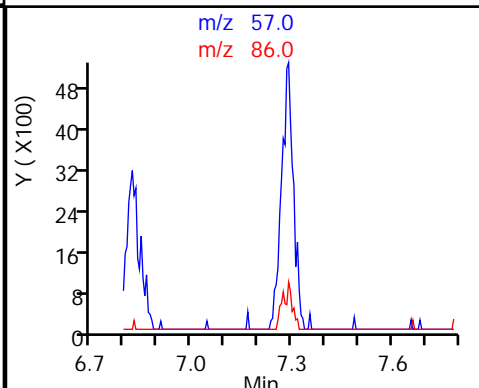
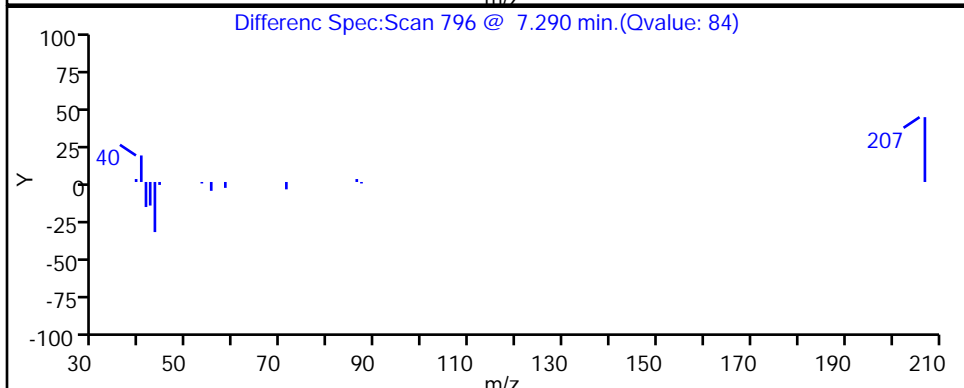
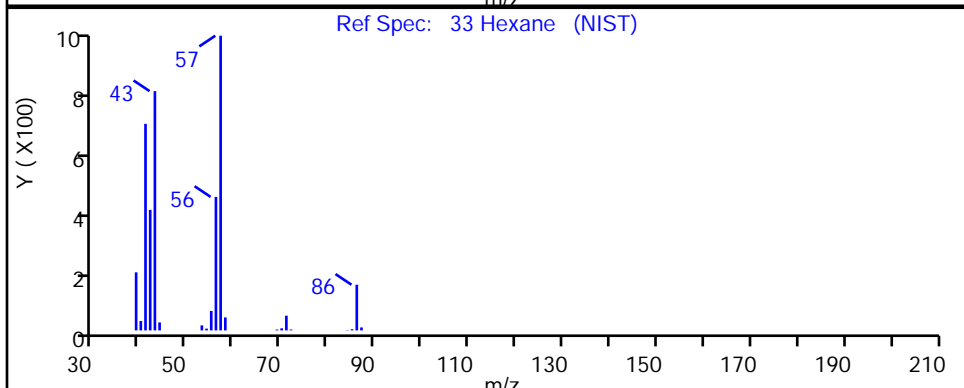
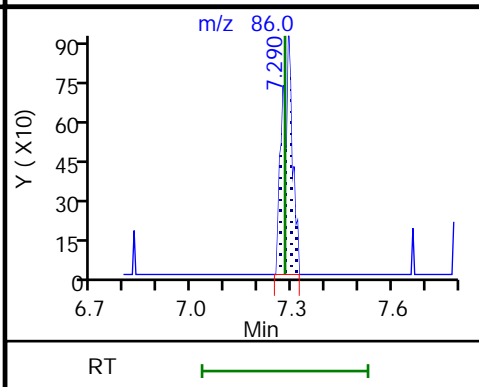
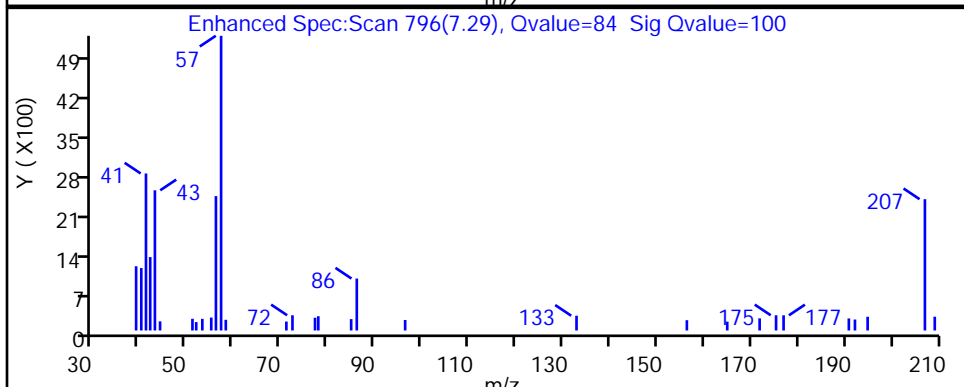
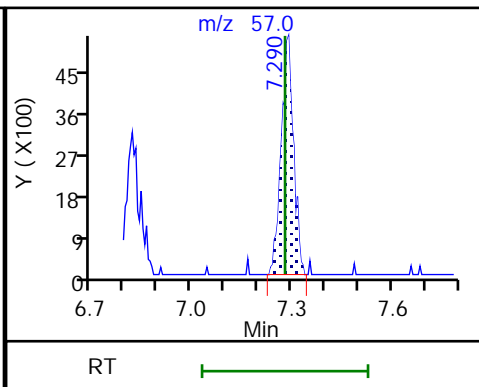
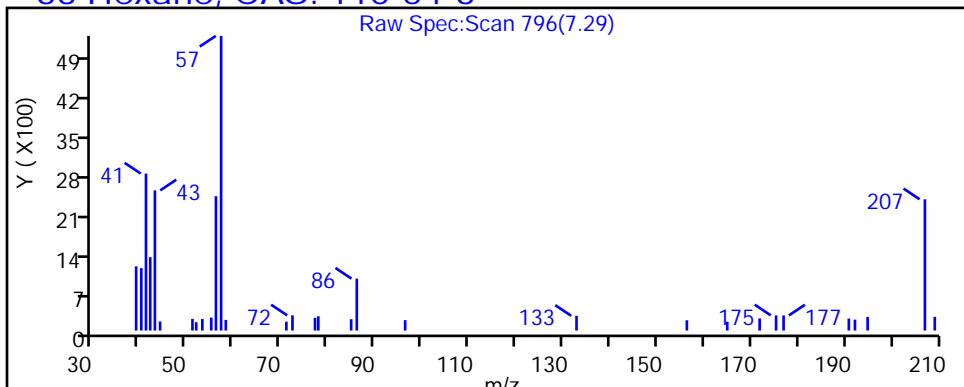
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

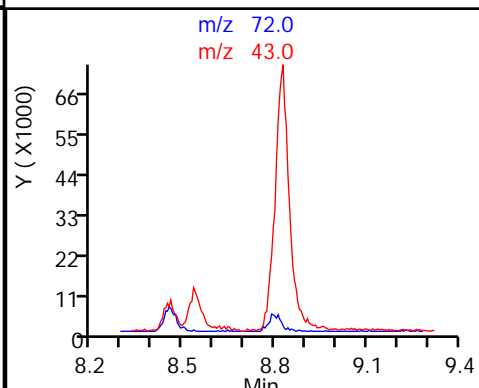
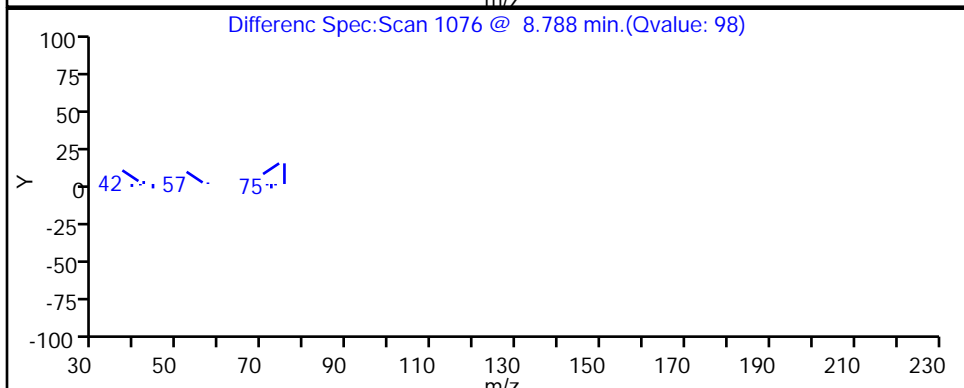
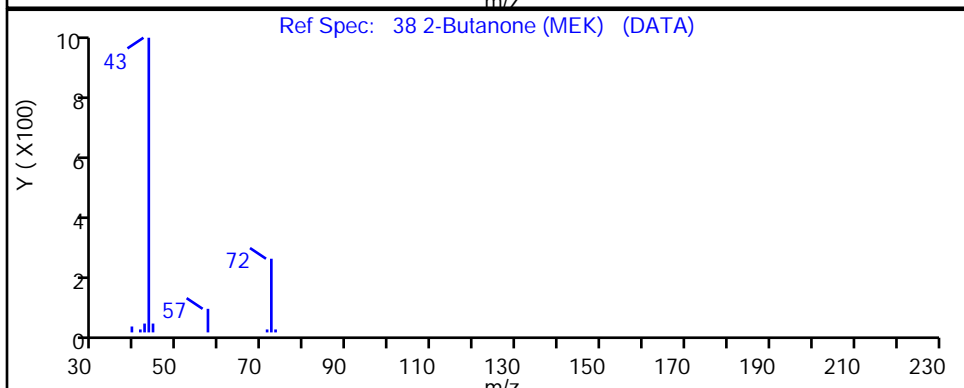
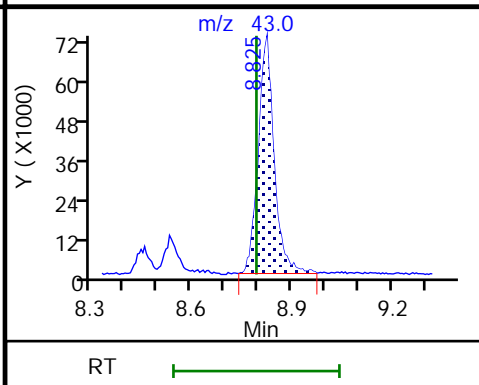
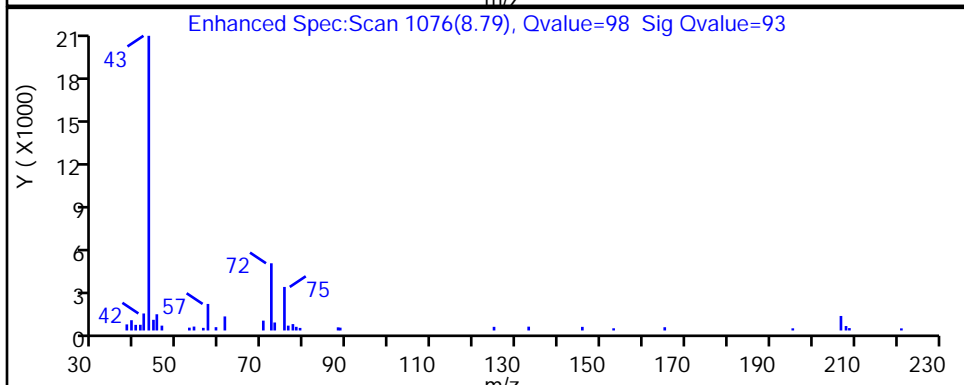
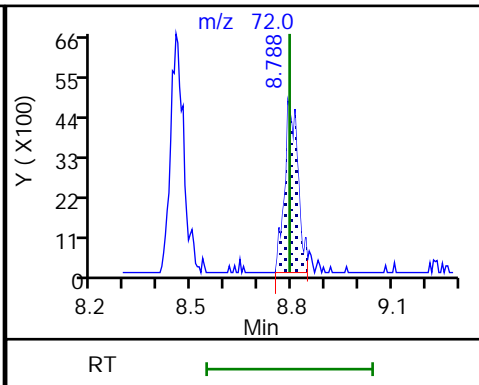
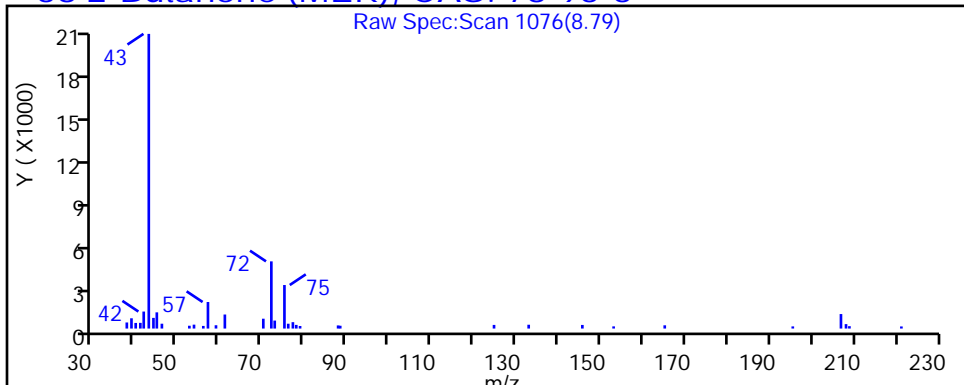
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

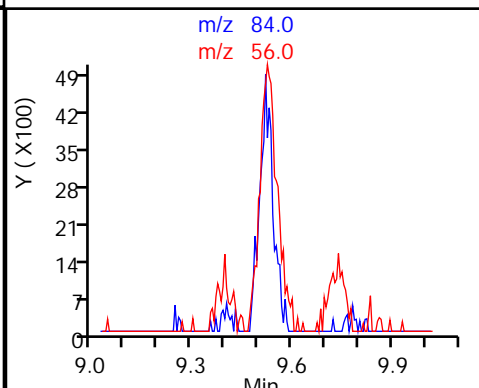
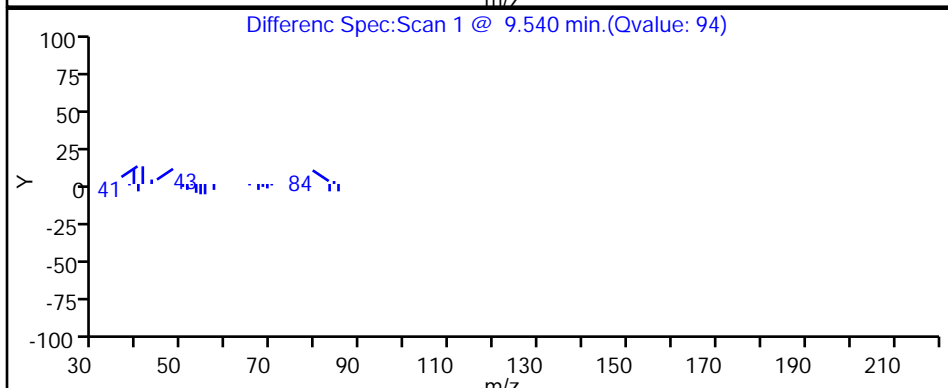
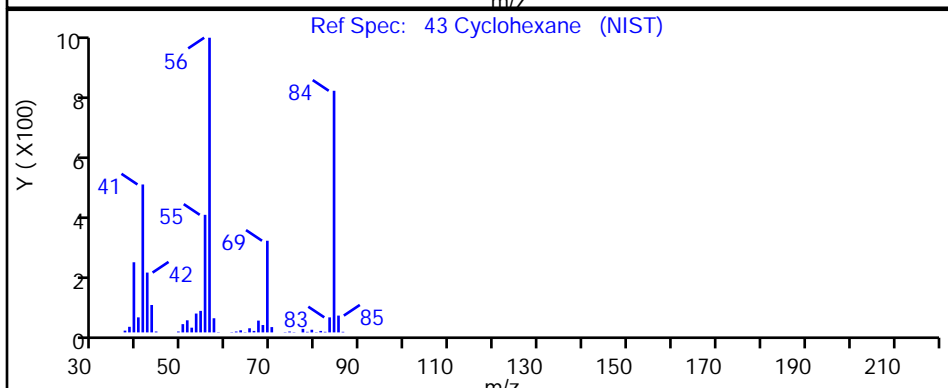
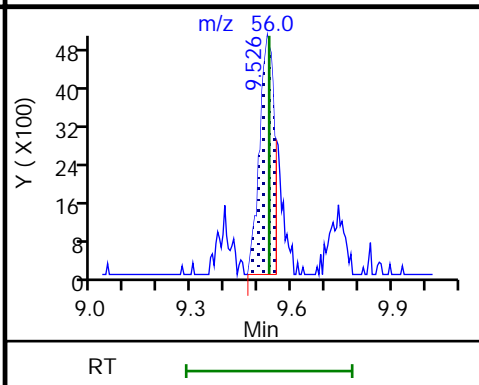
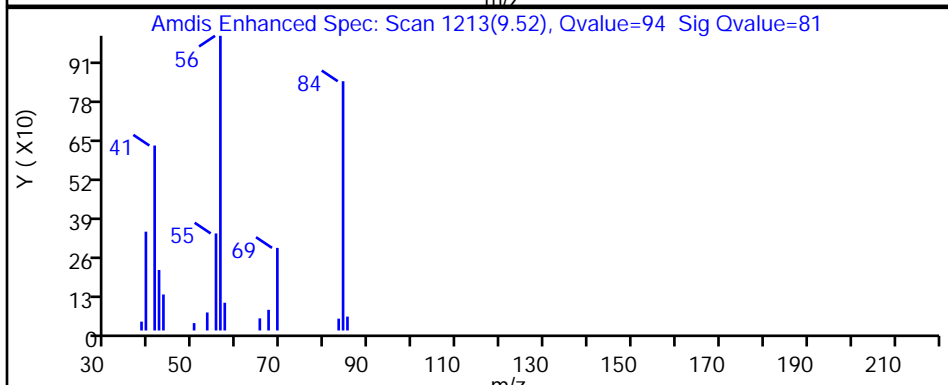
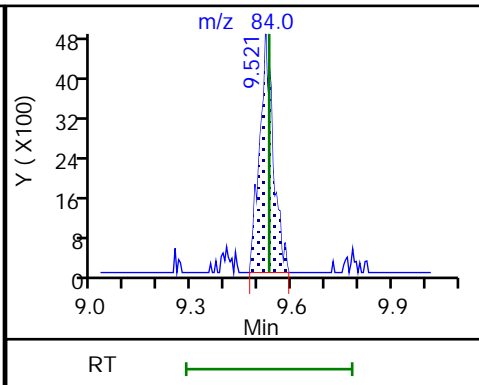
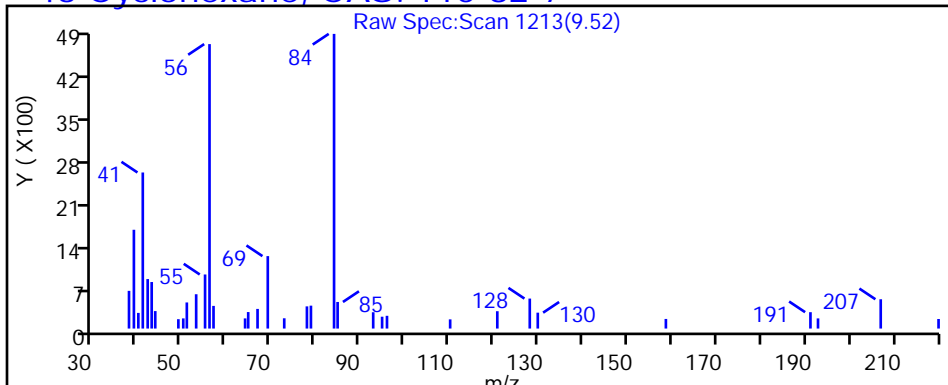
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

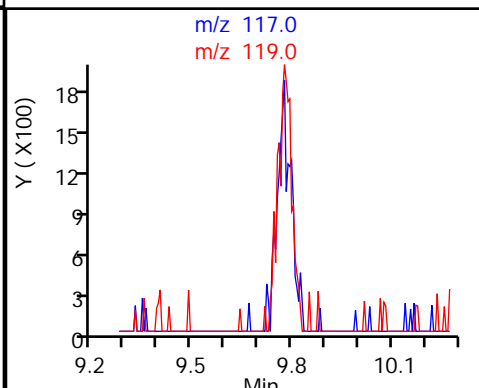
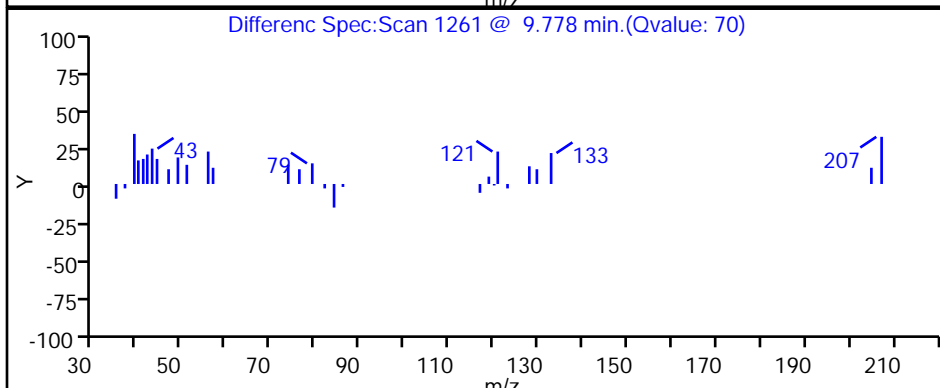
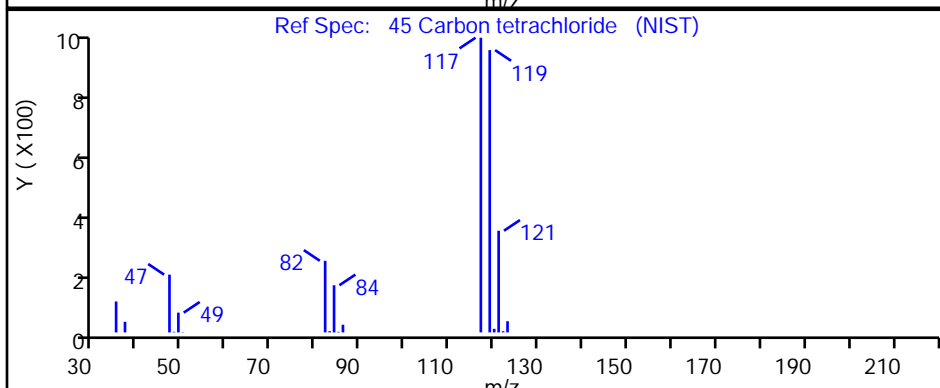
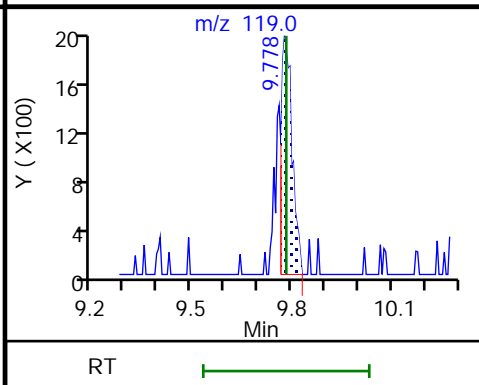
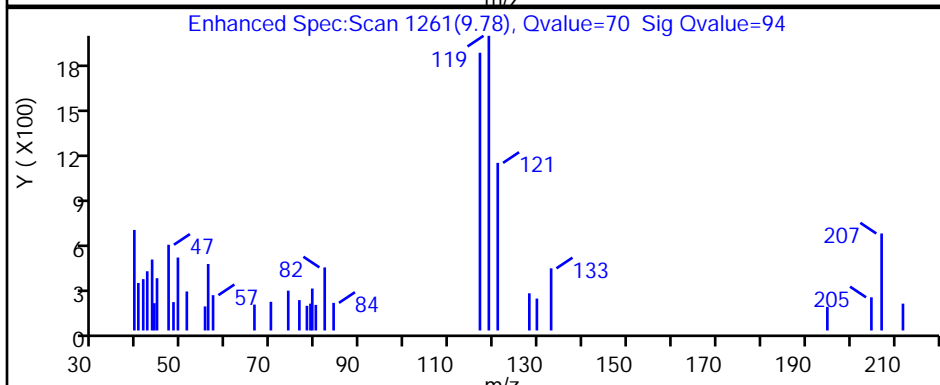
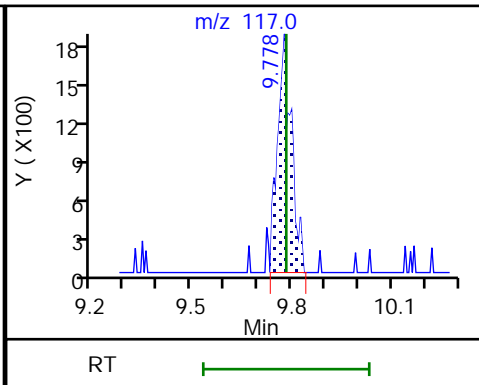
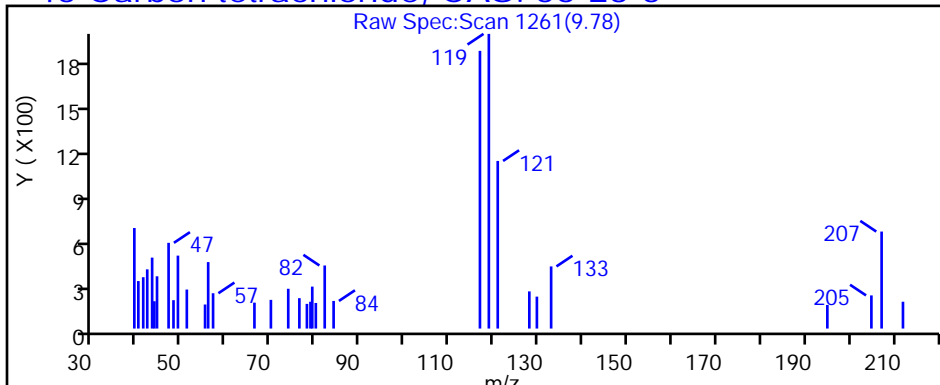
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

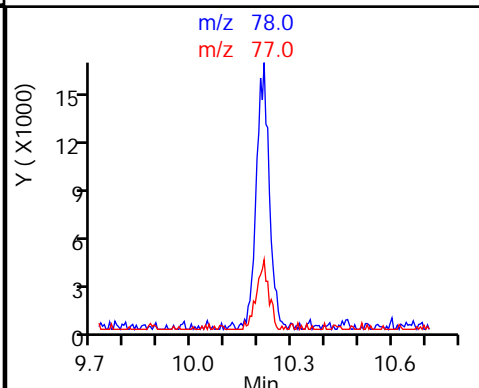
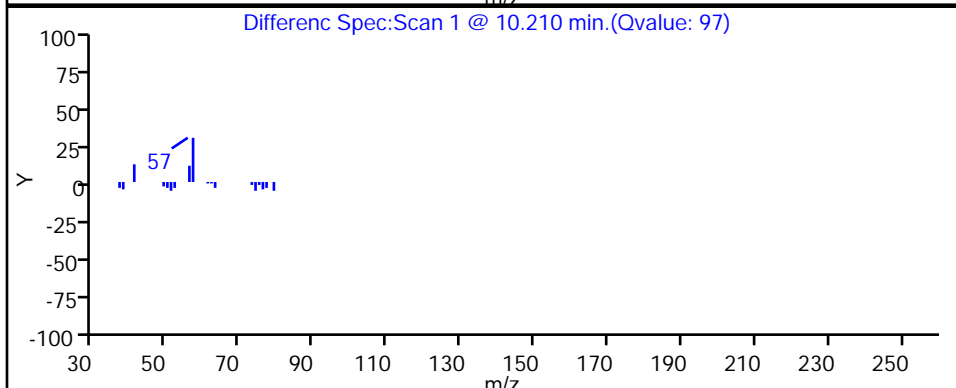
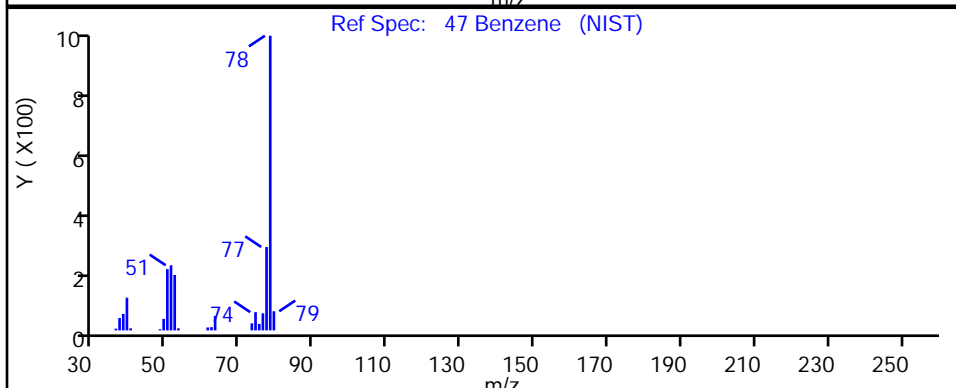
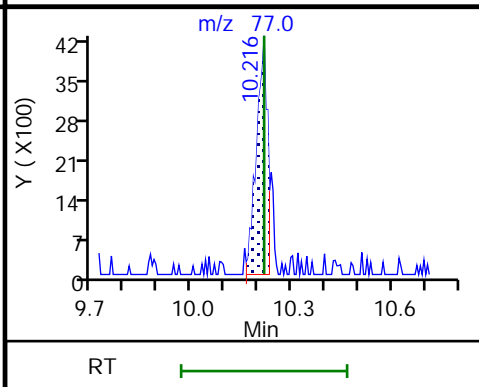
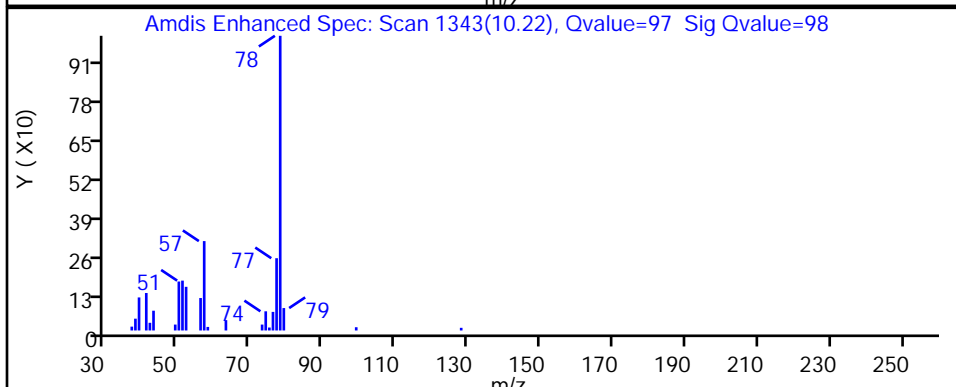
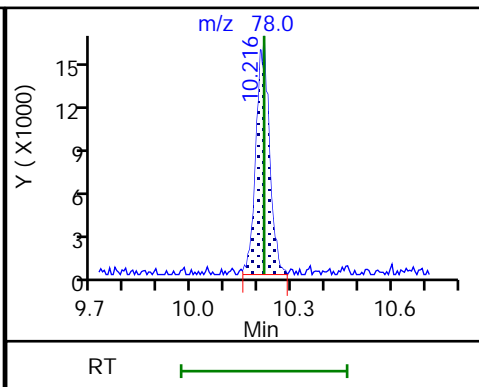
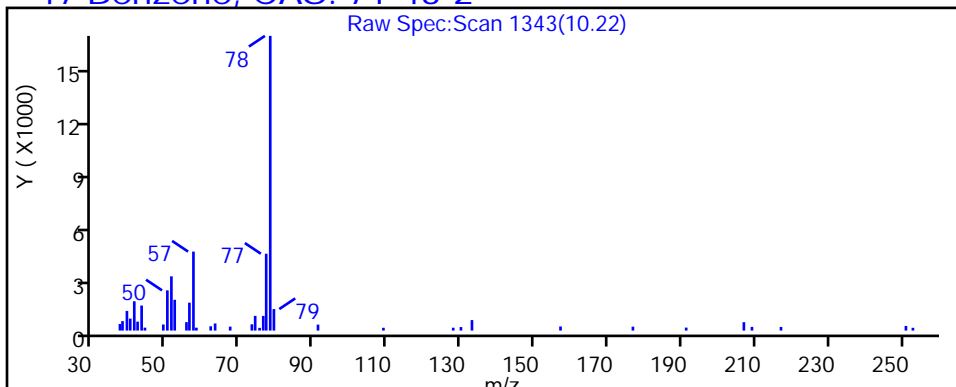
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

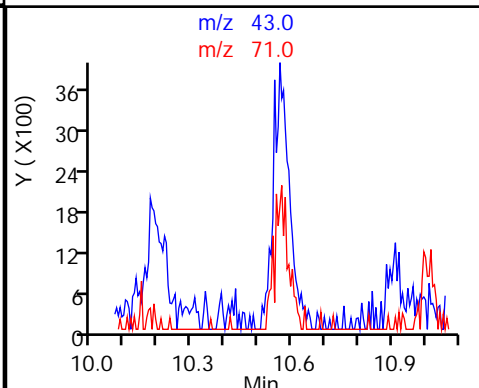
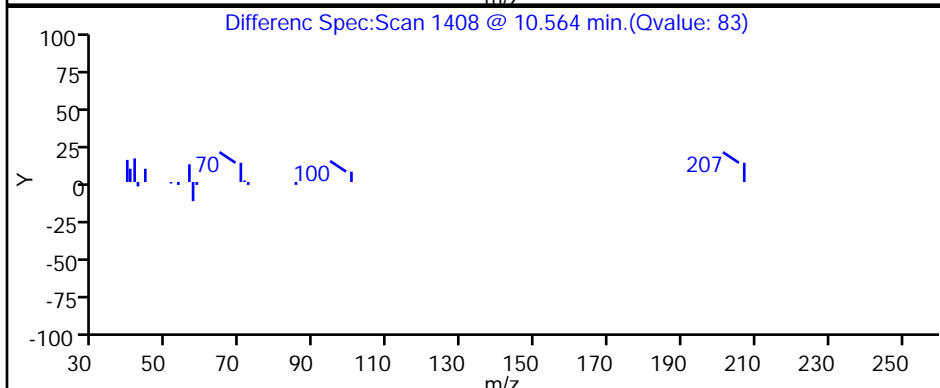
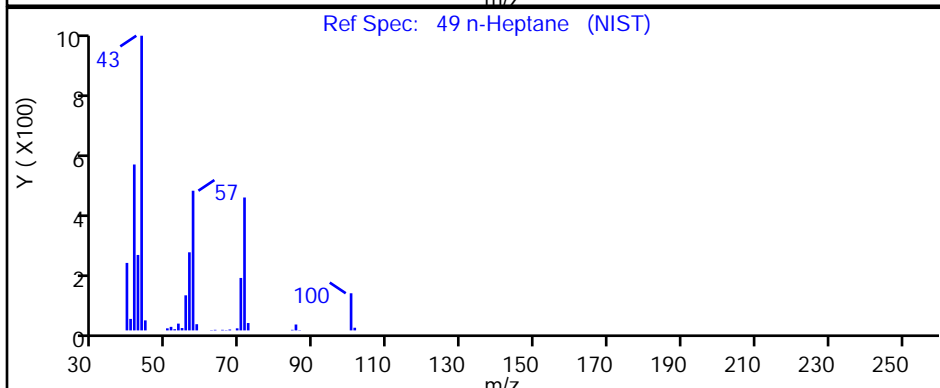
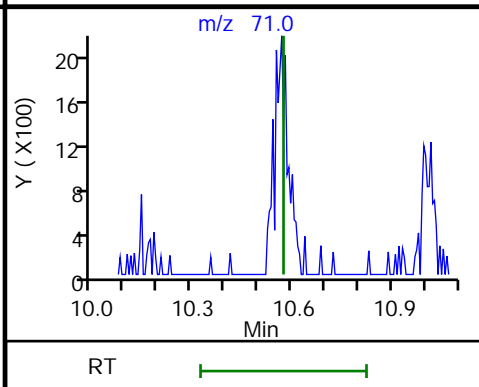
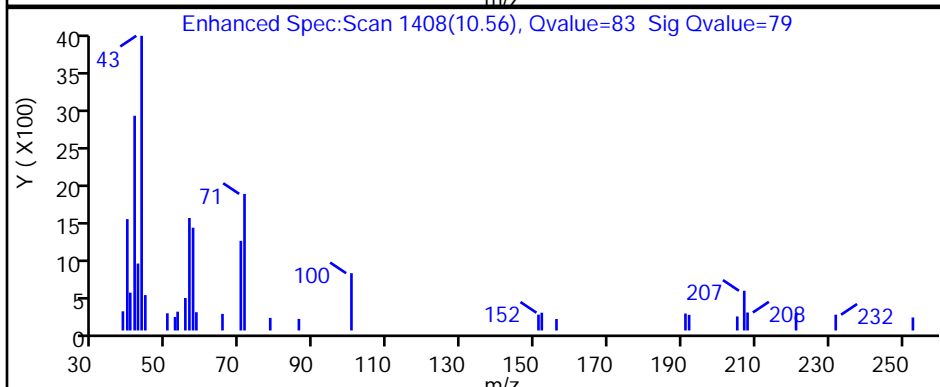
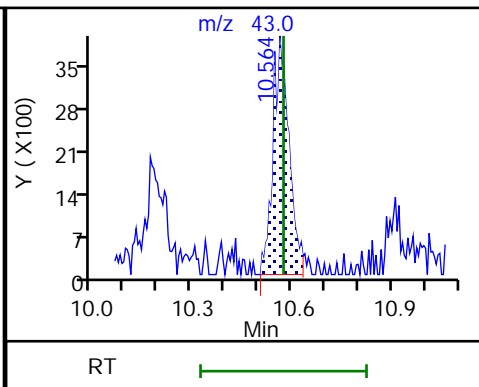
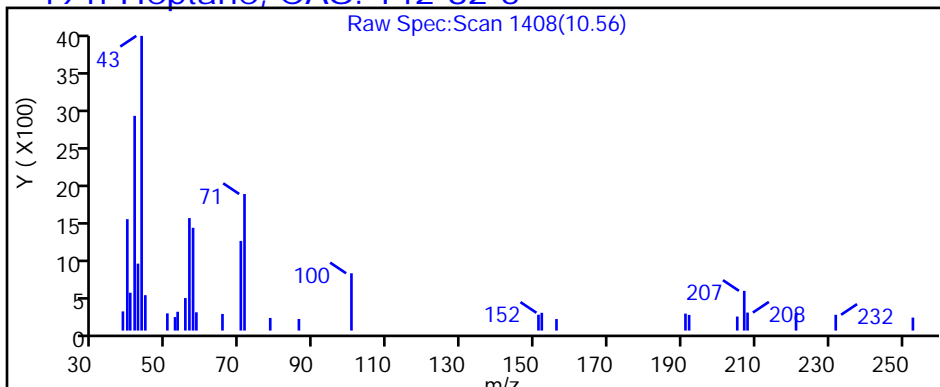
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D

Injection Date: 06-Dec-2018 03:30:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-1

Lab Sample ID: 200-46353-1

Client ID: AA-1\_20181120

Operator ID: ert

ALS Bottle#: 17 Worklist Smp#: 17

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

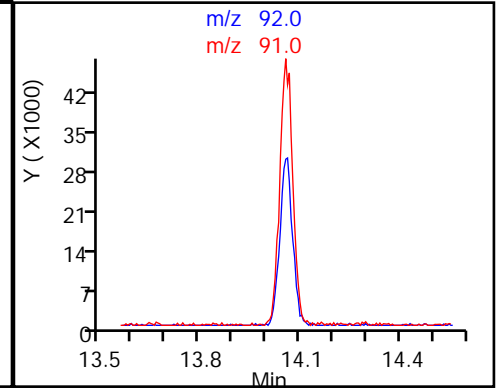
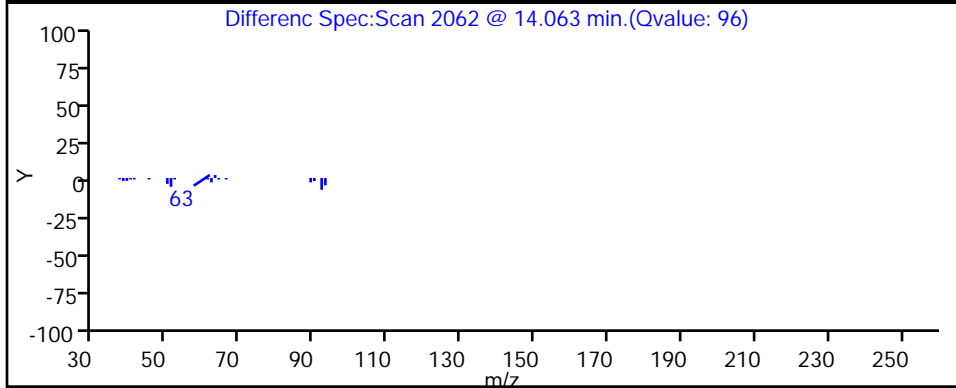
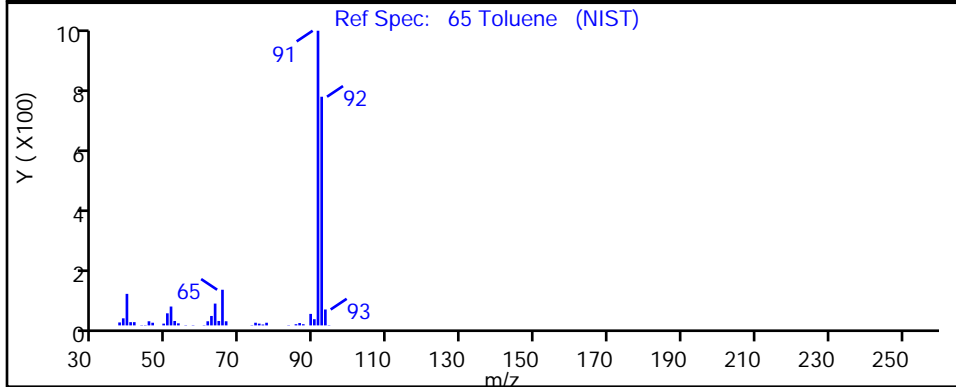
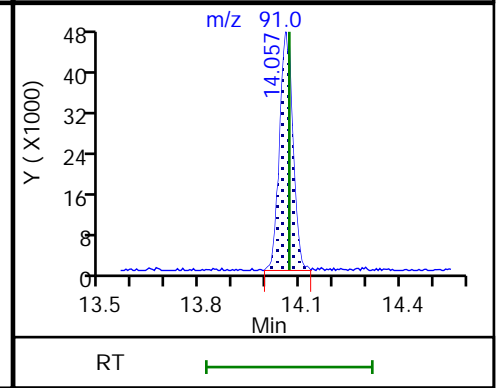
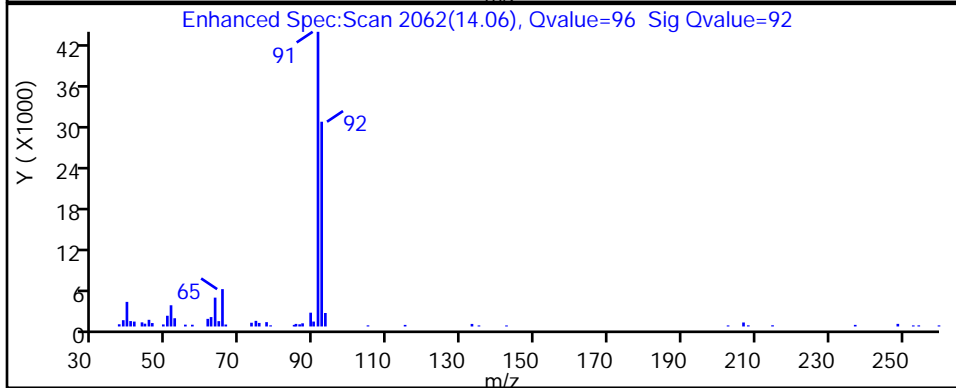
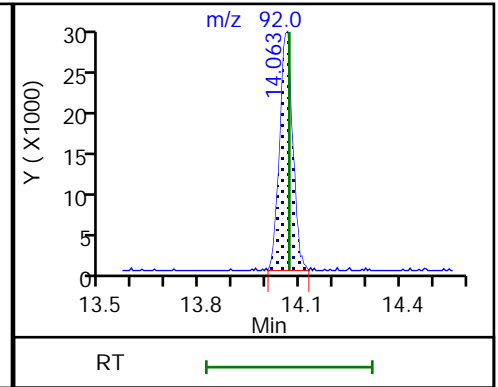
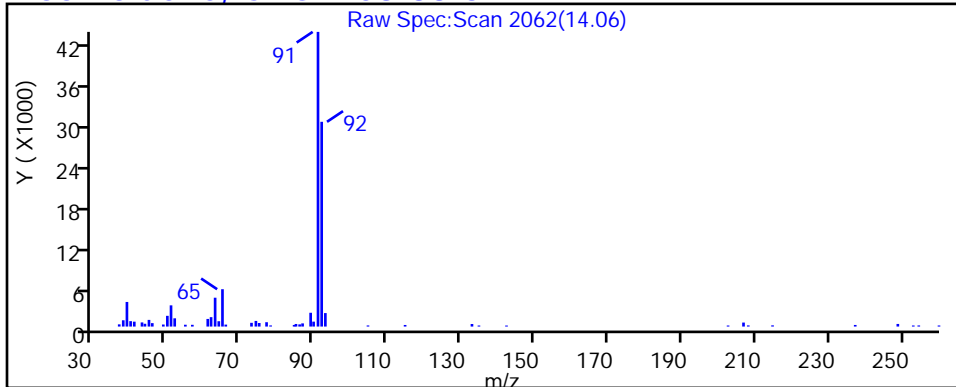
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

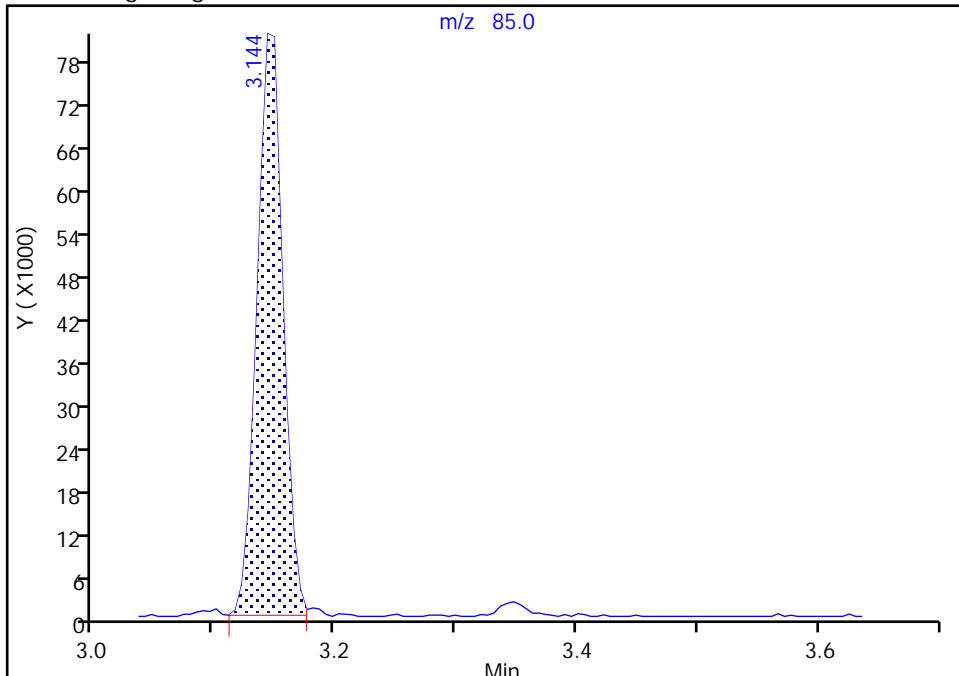
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

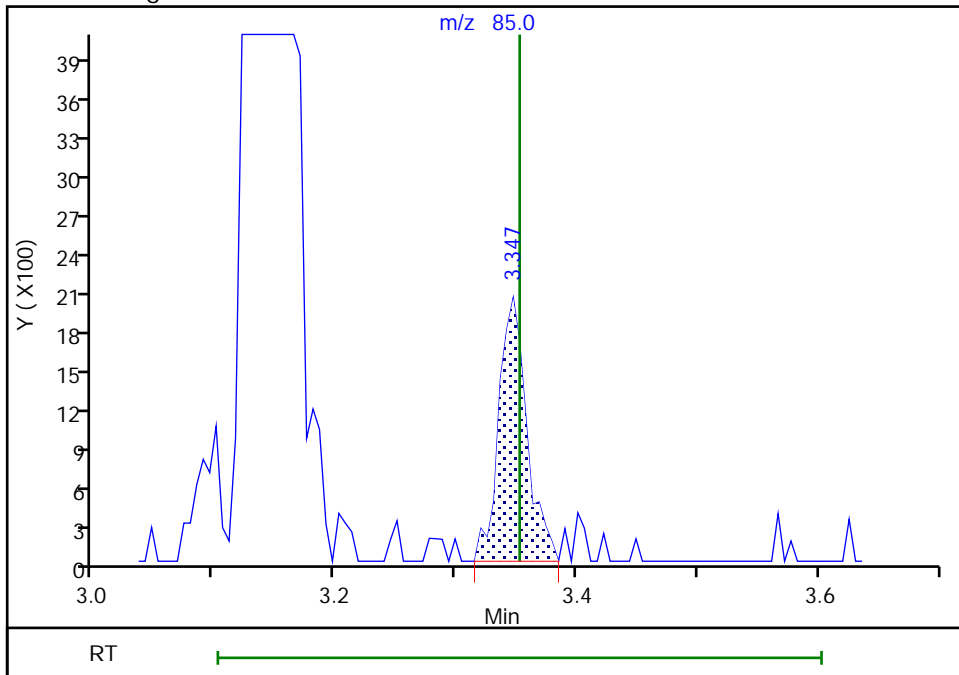
RT: 3.14  
Area: 121190  
Amount: 0.766647  
Amount Units: ppb v/v

Processing Integration Results



RT: 3.35  
Area: 3289  
Amount: 0.020806  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 16:23:51  
Audit Action: Manually Integrated

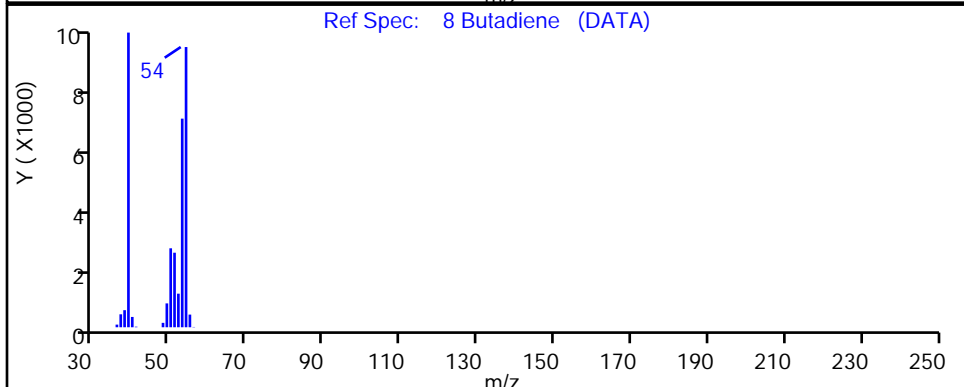
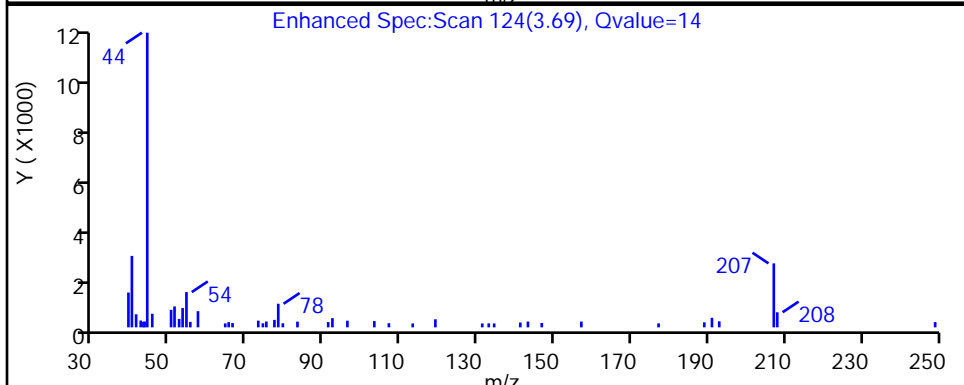
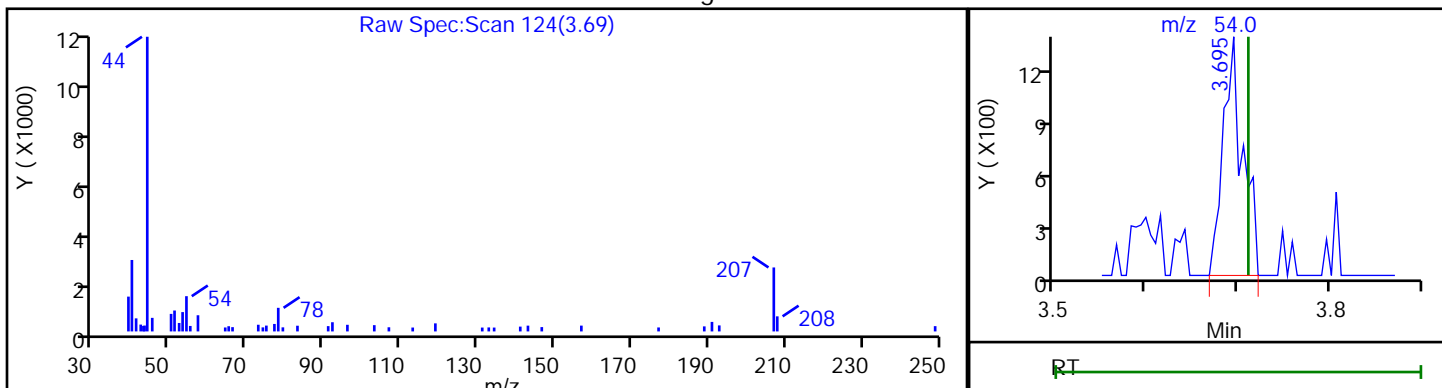
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 2050     | 0.066973 |

Reviewer: bunmaa, 06-Dec-2018 16:24:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

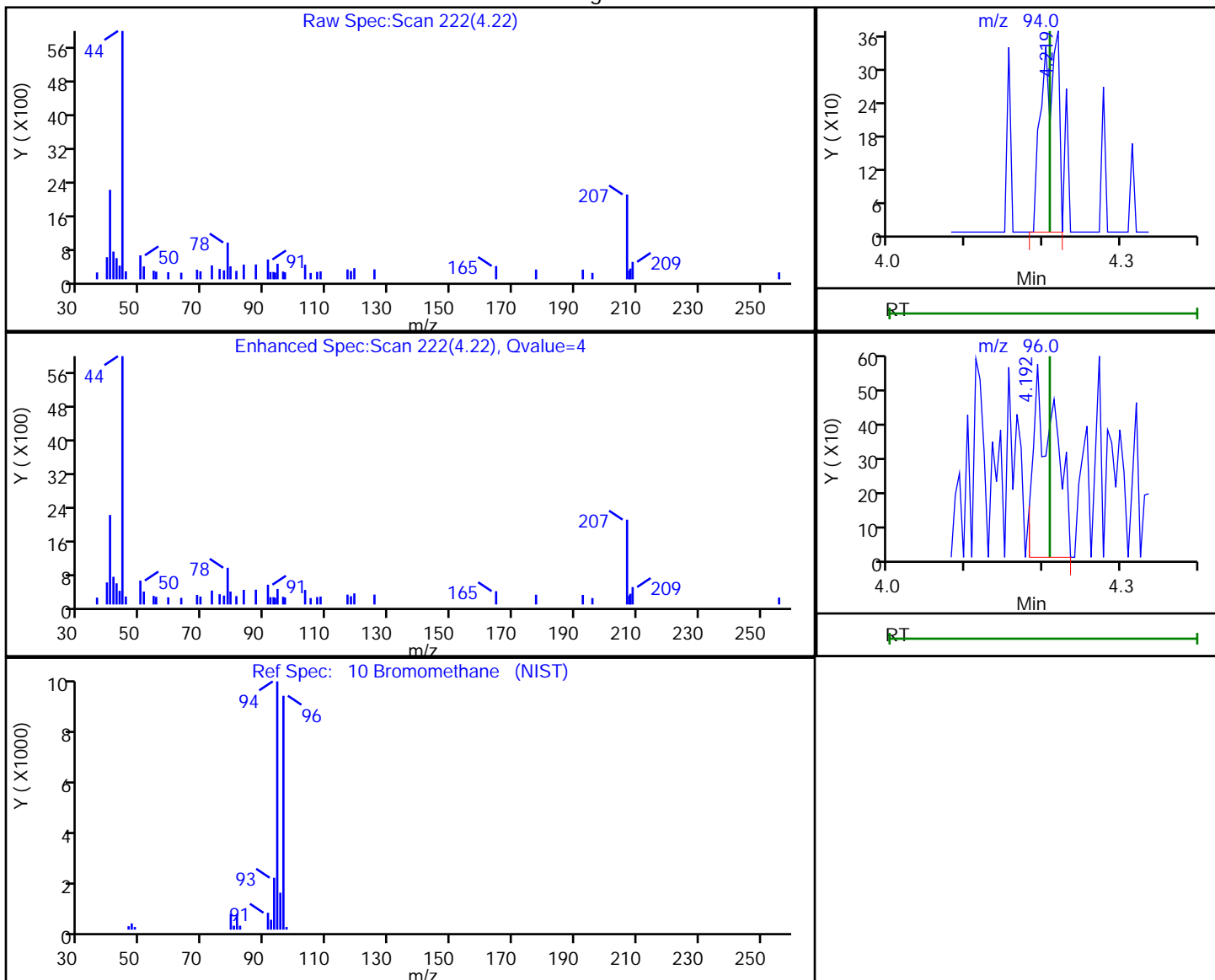


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.22 | 94.00 | 531      | 0.009348 |
| 4.19 | 96.00 | 1085     |          |

Reviewer: bunmaa, 06-Dec-2018 16:24:17

Audit Action: Marked Compound Undetected

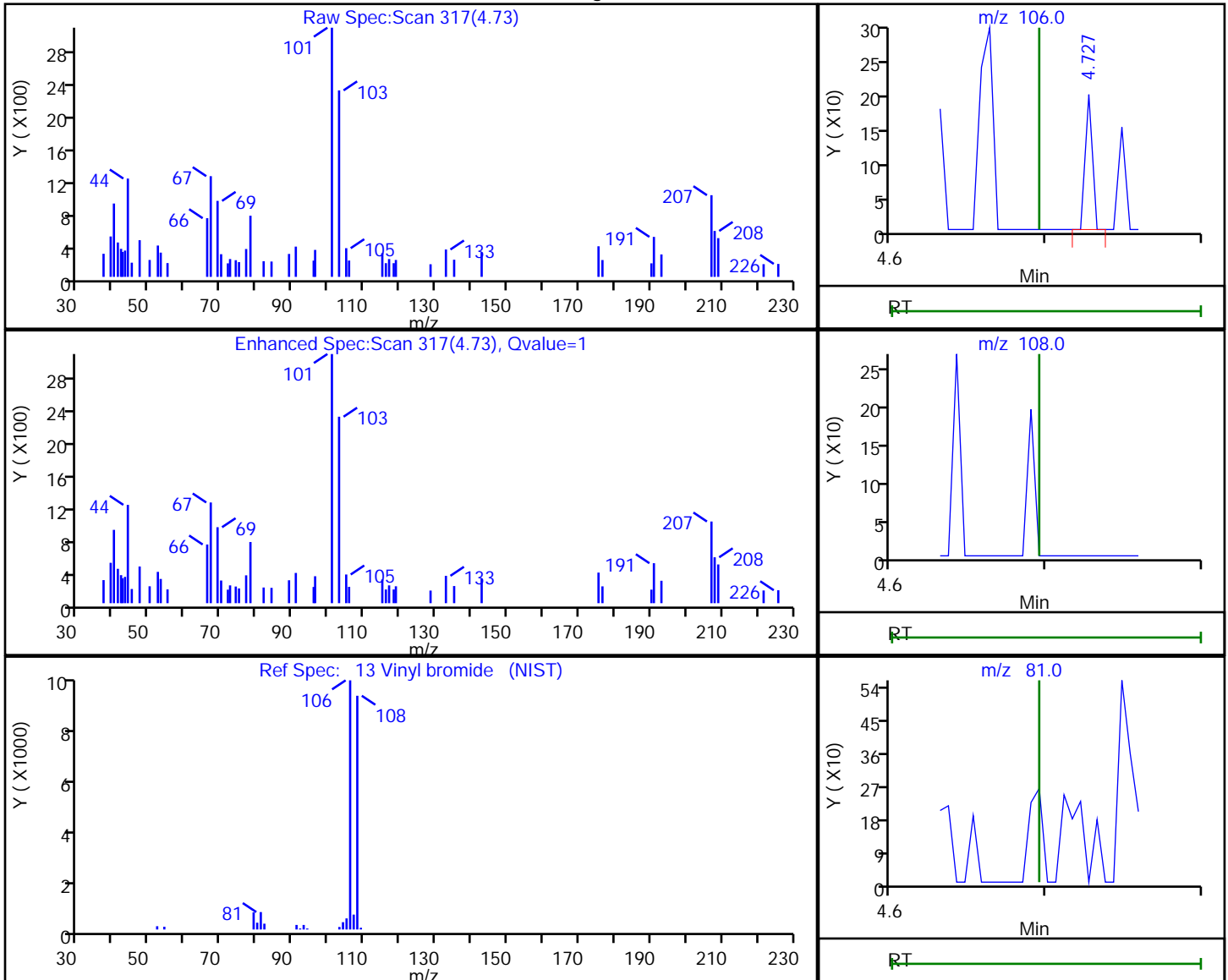
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.73 | 106.00 | 64       | 0.001140 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:24:22  
Audit Action: Marked Compound Undetected

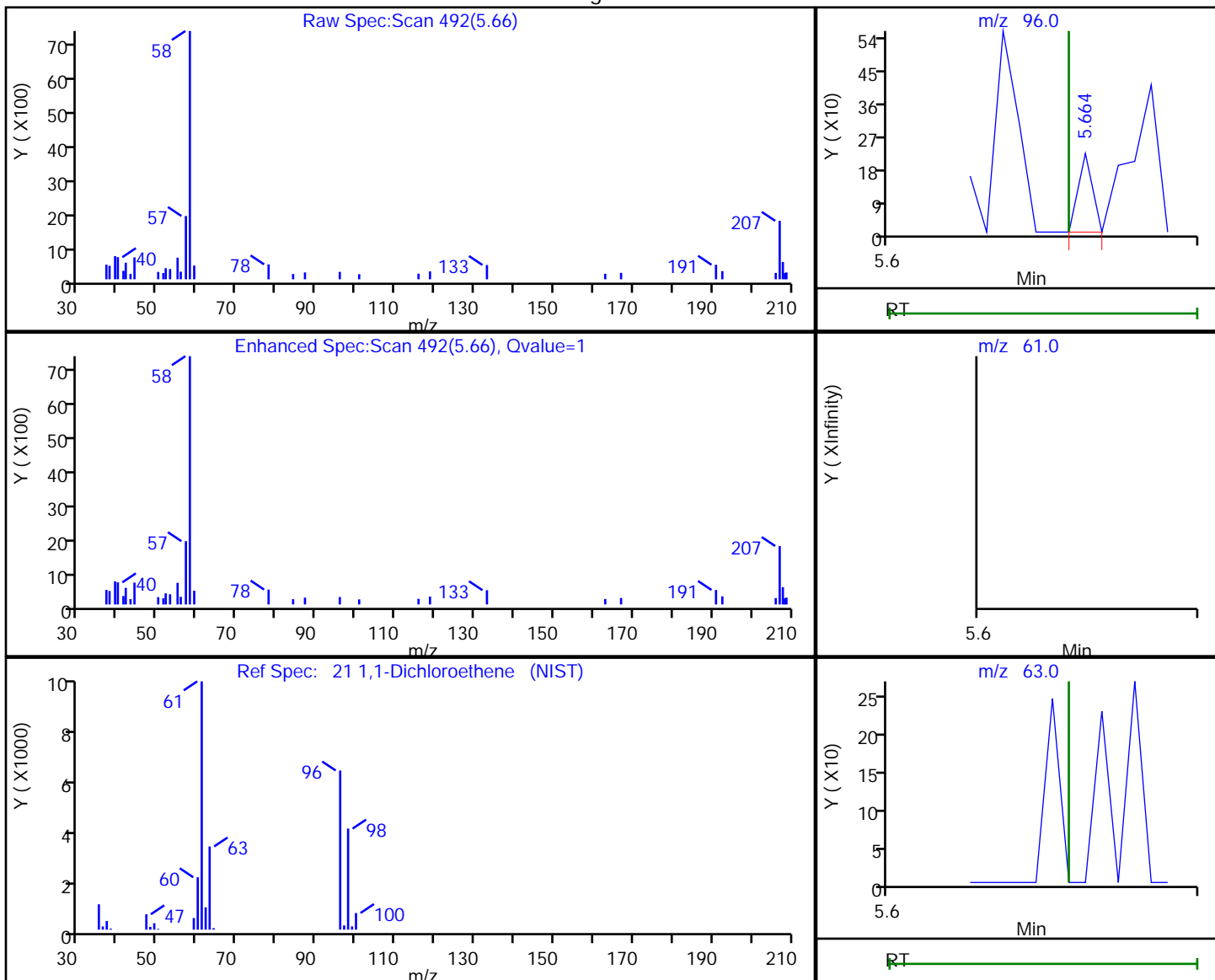
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.66 | 96.00 | 70       | 0.001360 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:24:29  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

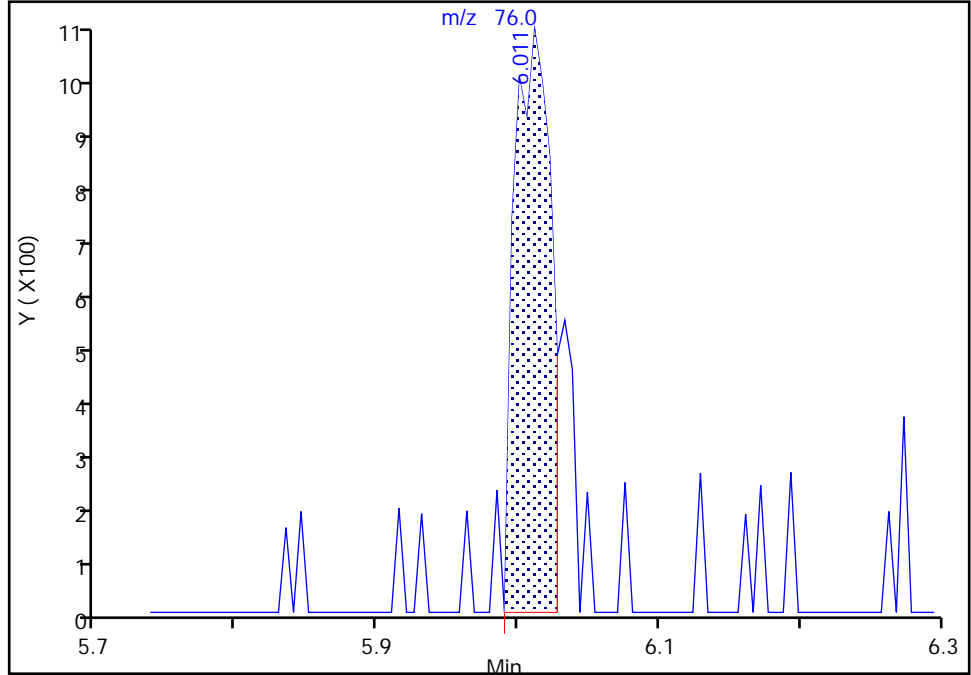
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

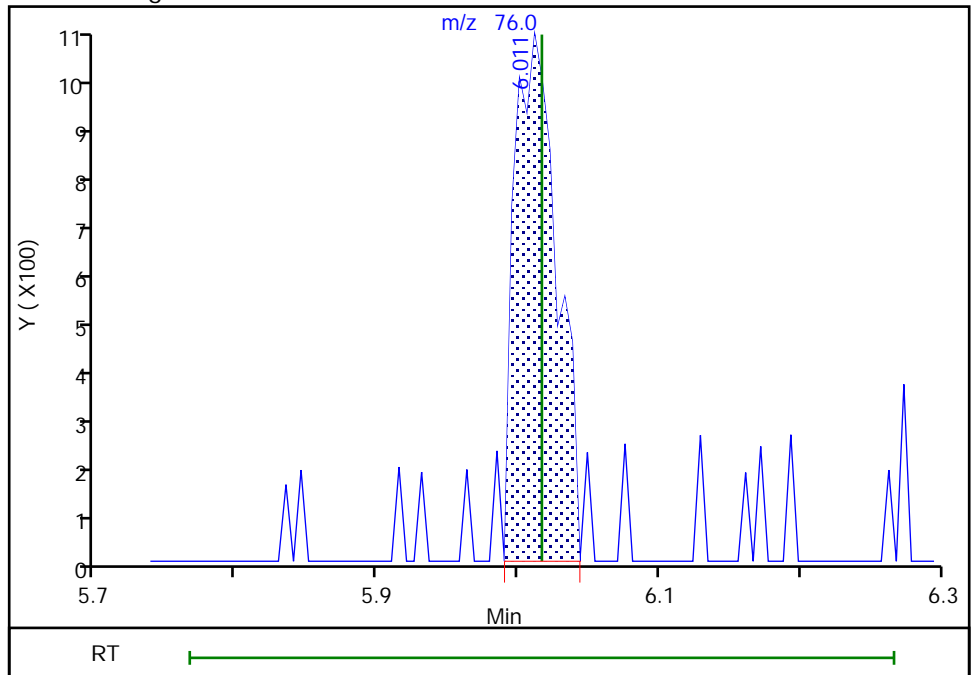
RT: 6.01  
Area: 1870  
Amount: 0.014125  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.01  
Area: 2178  
Amount: 0.016451  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 16:24:43  
Audit Action: Manually Integrated

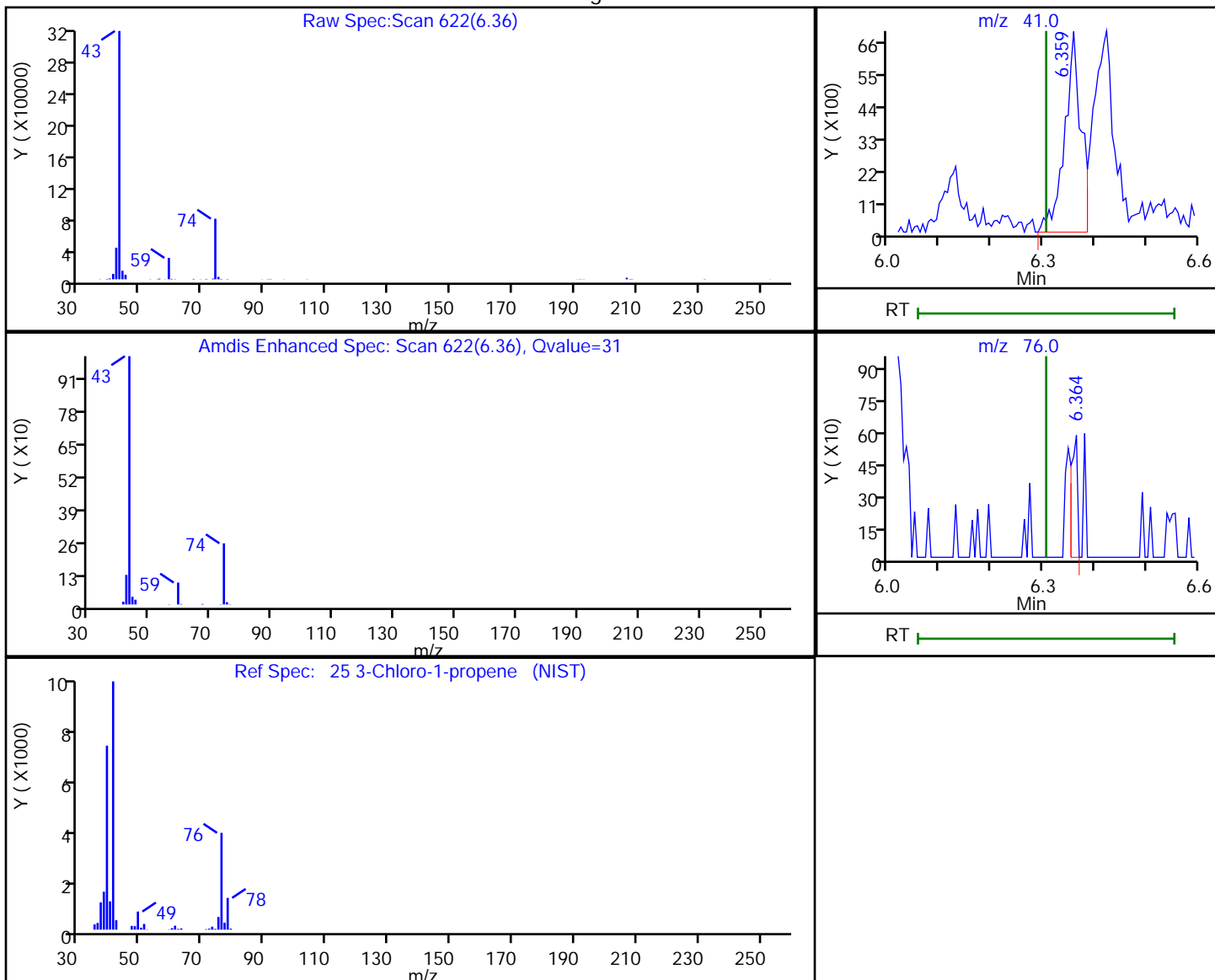
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.36 | 41.00 | 15170    | 0.396169 |
| 6.36 | 76.00 | 478      |          |

Reviewer: bunmaa, 06-Dec-2018 16:25:05  
Audit Action: Marked Compound Undetected

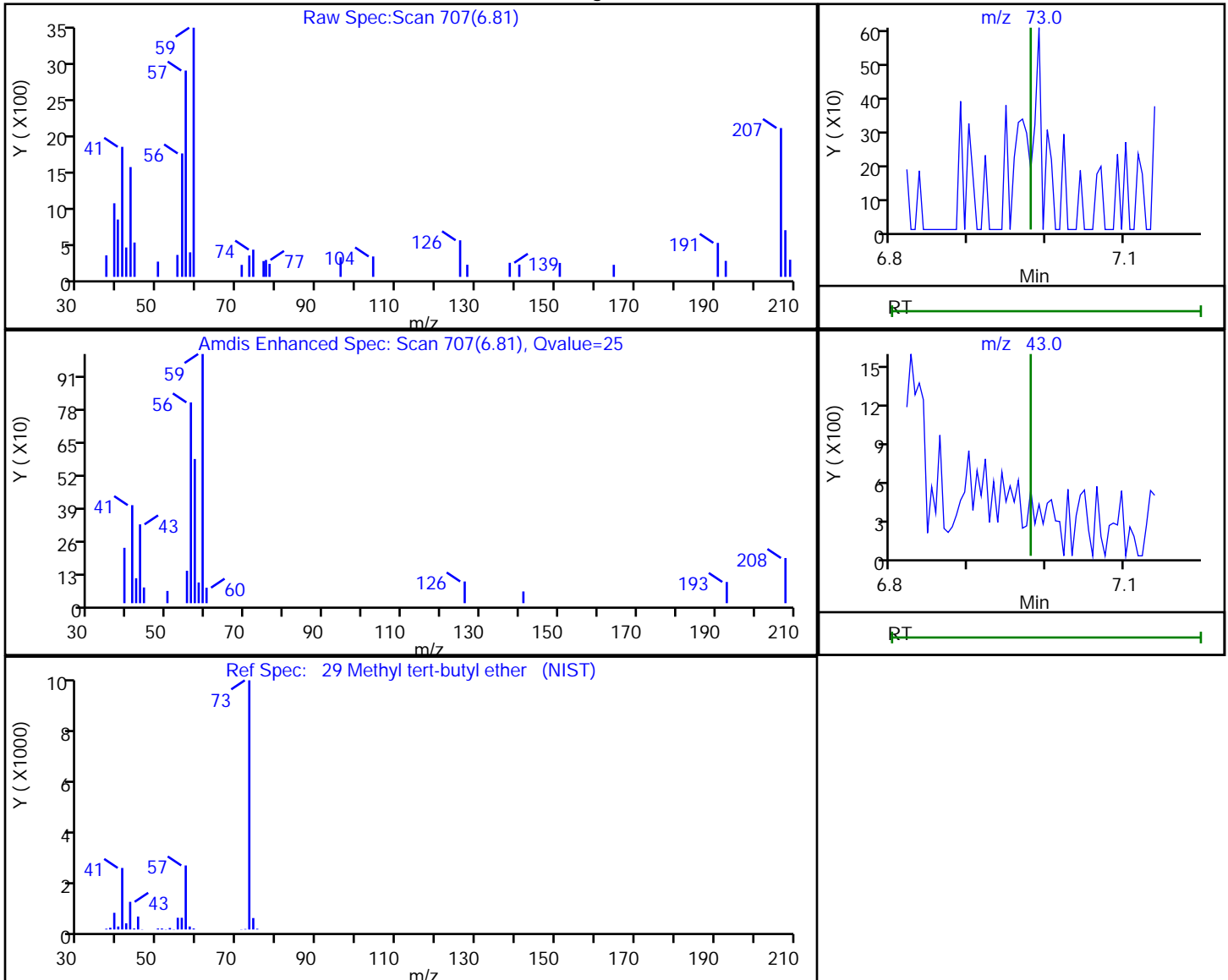
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.81 | 73.00 | 537      | 0.005367 |
| 6.98 | 43.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:25:20

Audit Action: Marked Compound Undetected

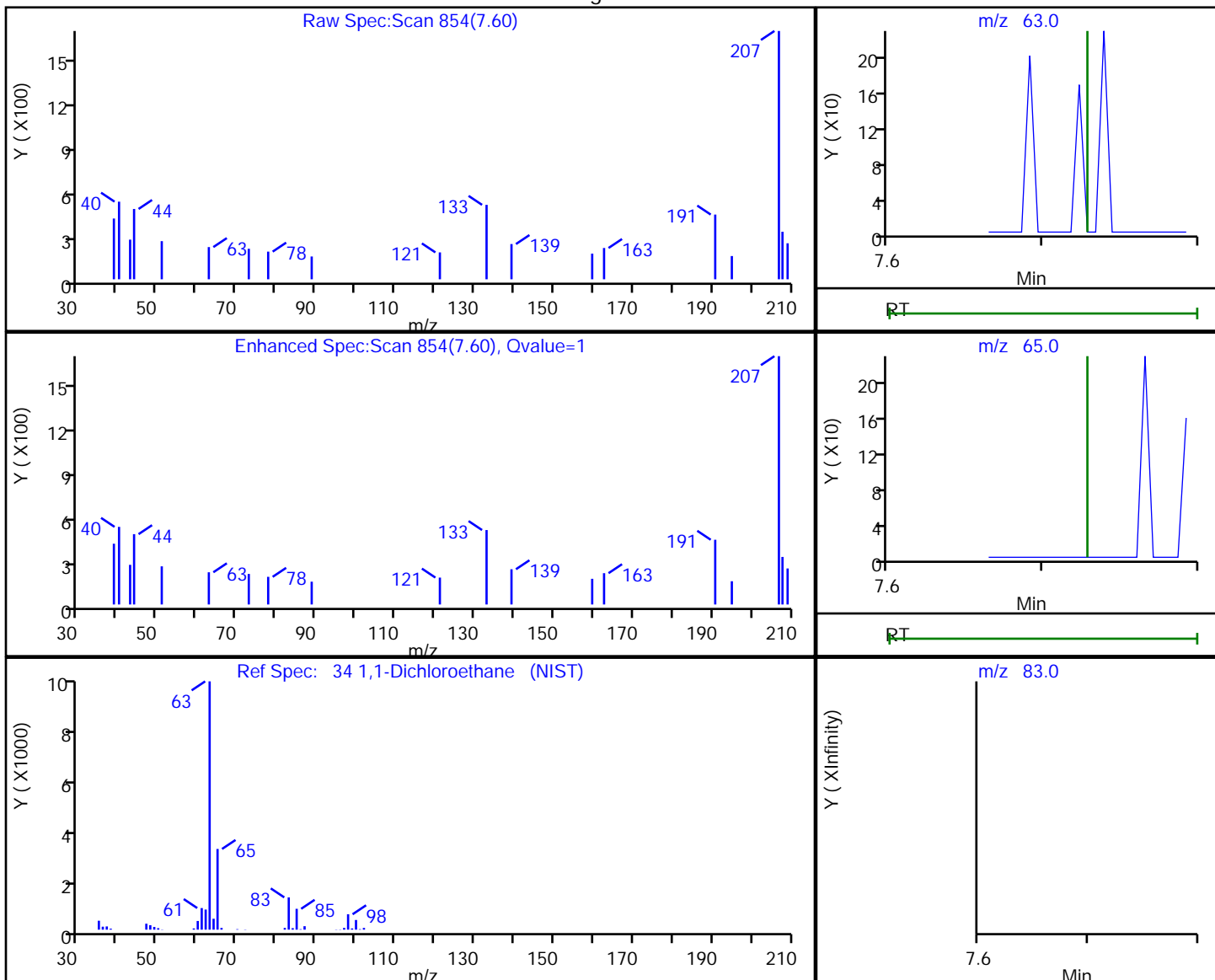
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.60 | 63.00 | 68       | 0.000845 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:25:25  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

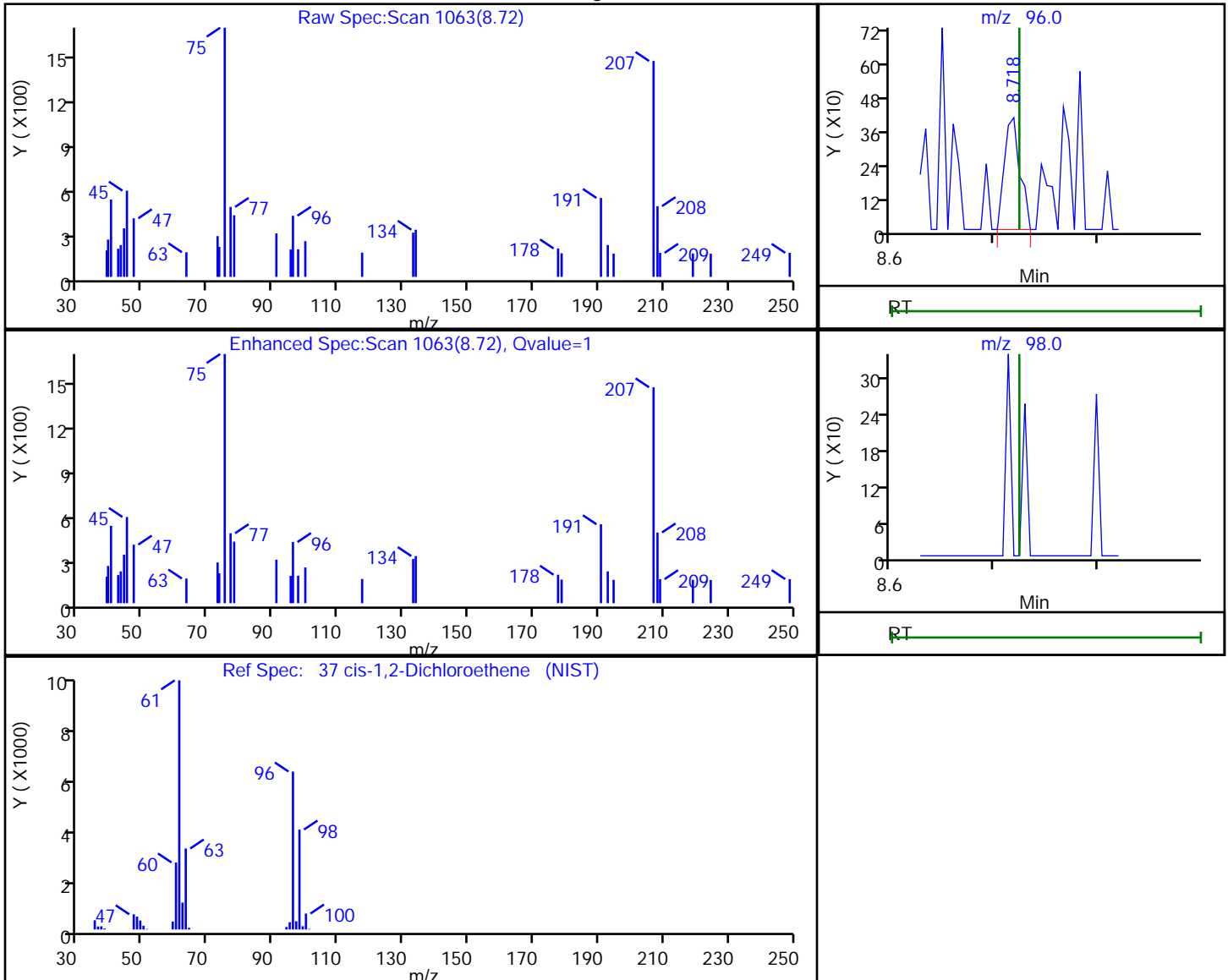


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.72 | 96.00 | 422      | 0.008655 |
| 8.72 | 98.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:25:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

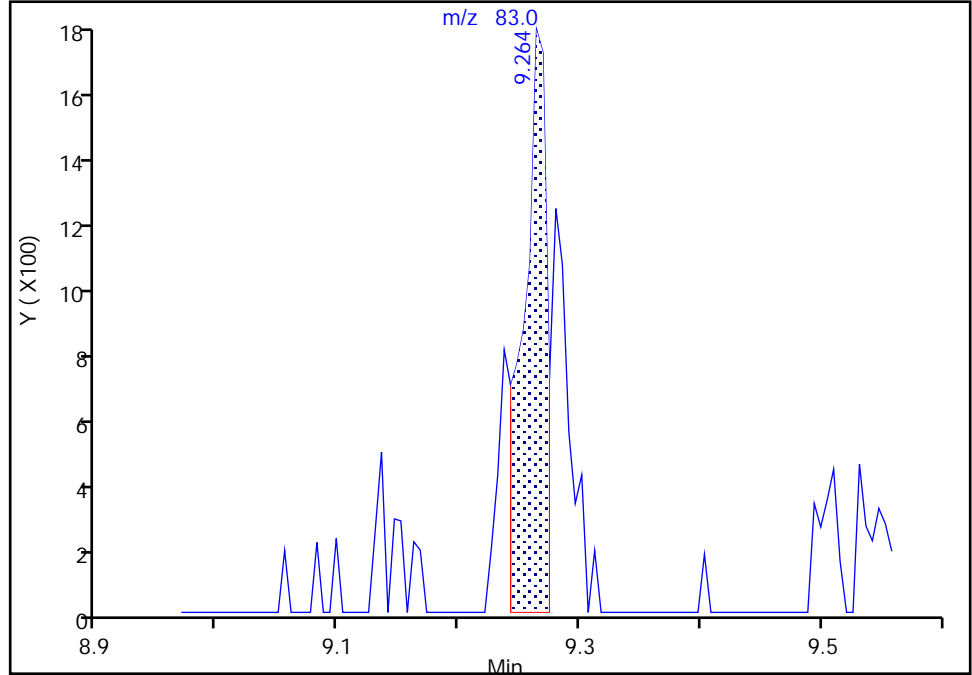
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

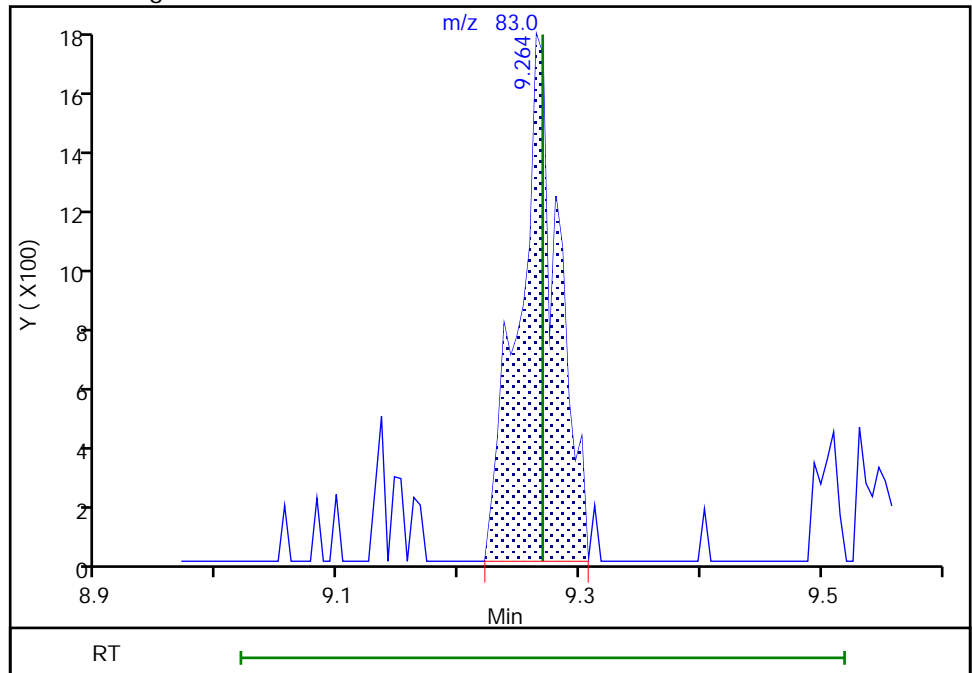
RT: 9.26  
Area: 2373  
Amount: 0.020178  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.26  
Area: 3942  
Amount: 0.033519  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 16:25:43  
Audit Action: Manually Integrated

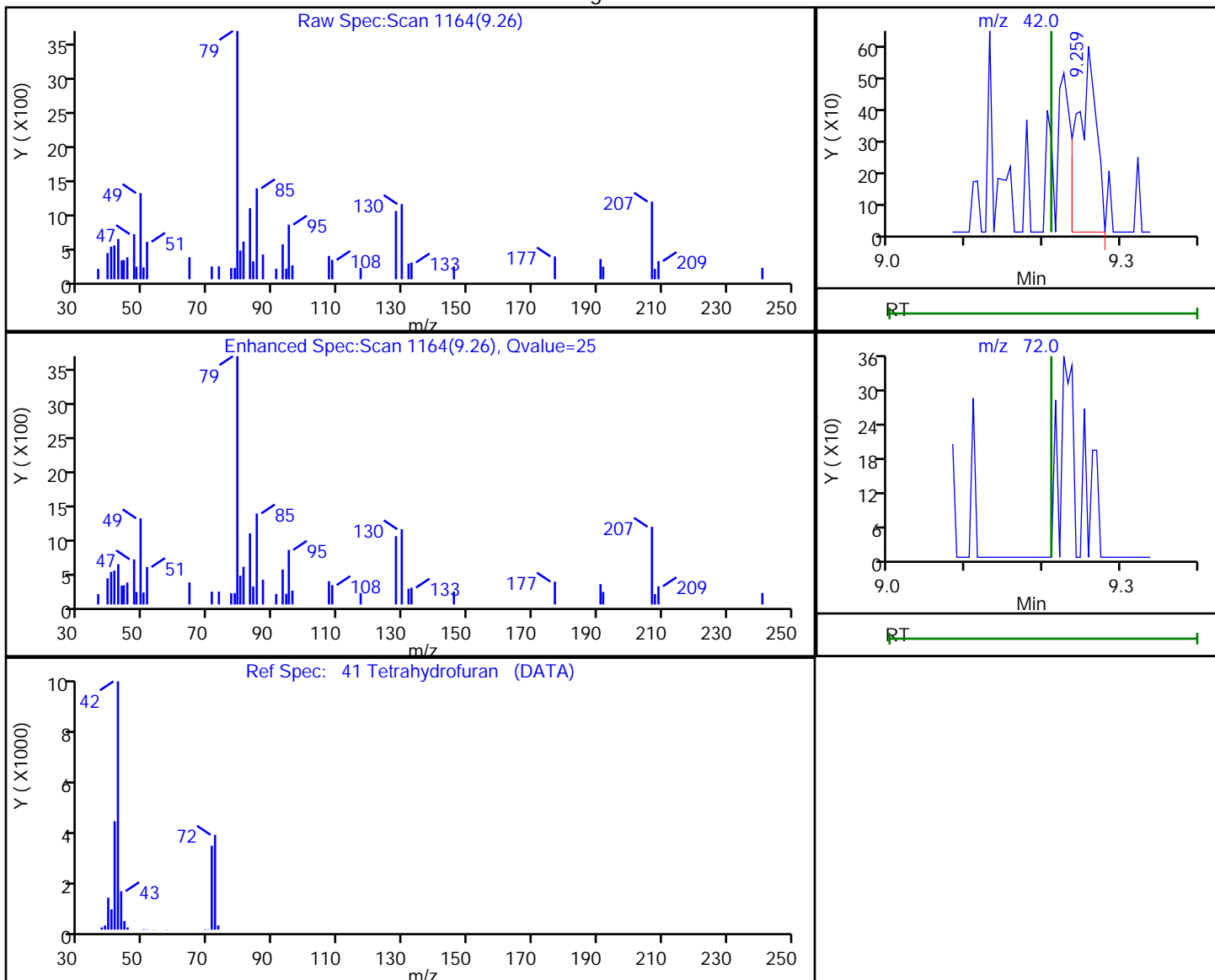
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.26 | 42.00 | 955      | 0.035825 |
| 9.21 | 72.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:25:34

Audit Action: Marked Compound Undetected

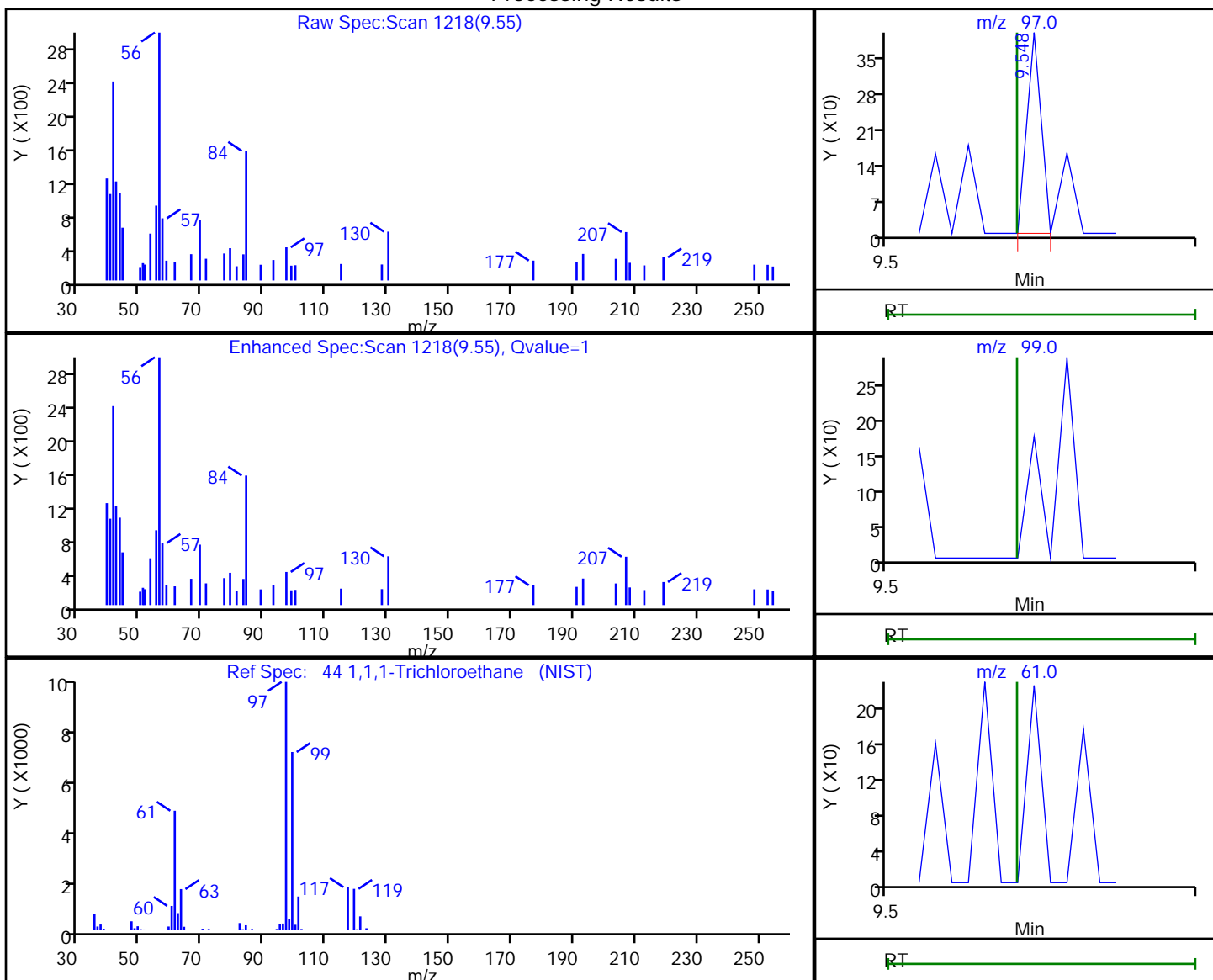
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.55 | 97.00 | 126      | 0.000970 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:26:11  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

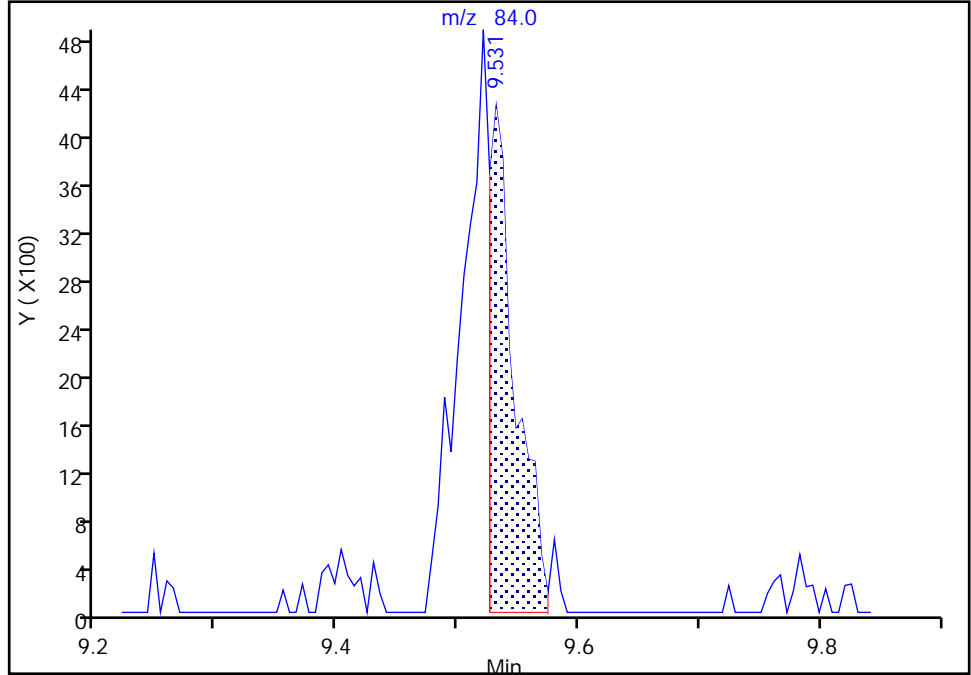
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

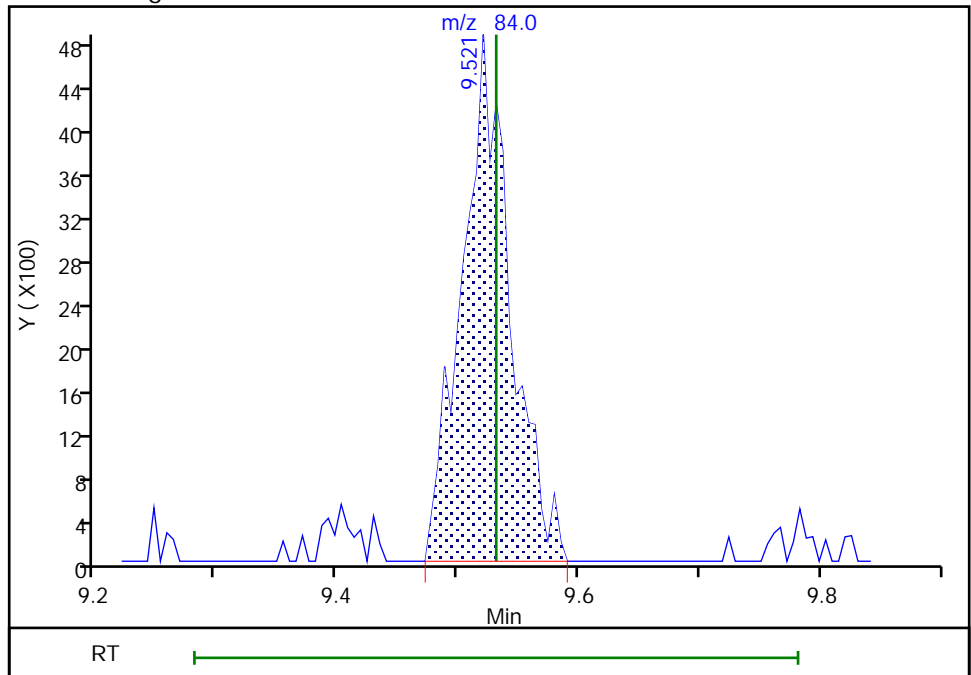
RT: 9.53  
Area: 6504  
Amount: 0.121268  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.52  
Area: 13553  
Amount: 0.252698  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

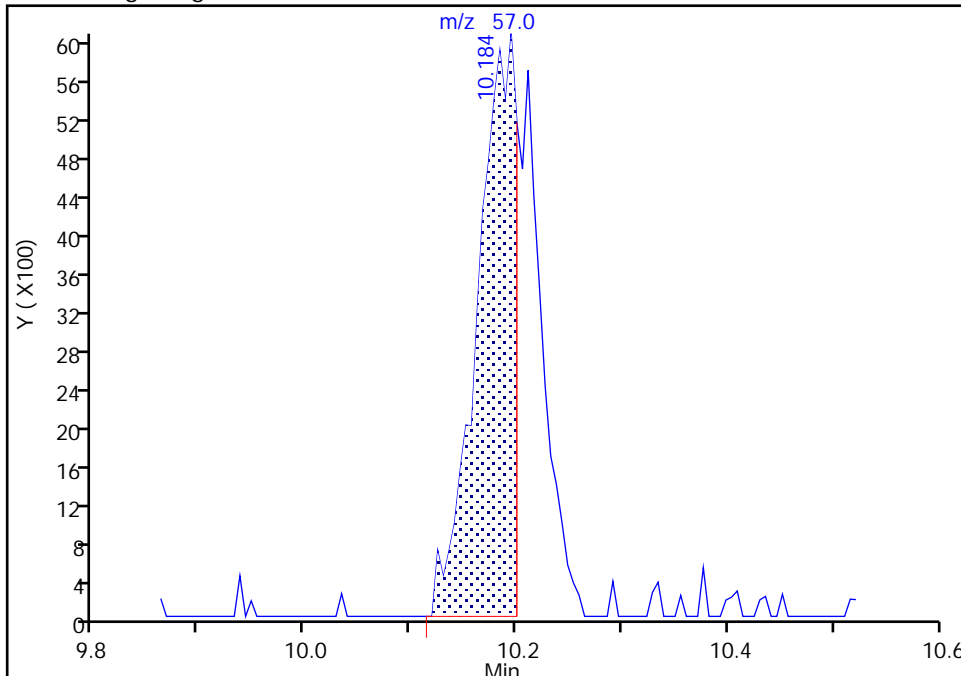
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Isooctane, CAS: 540-84-1

Signal: 1

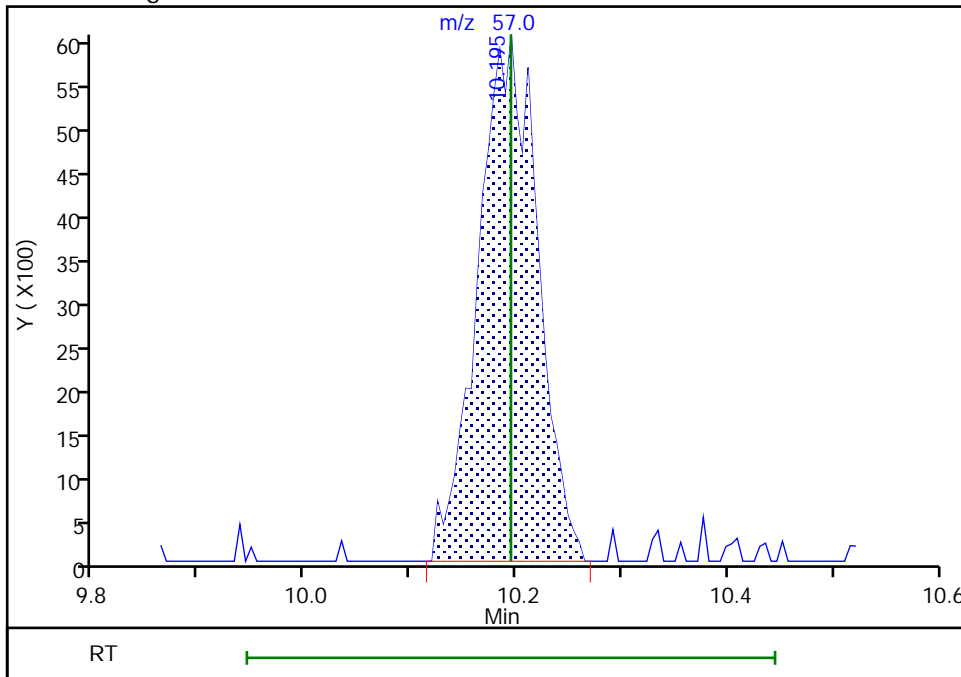
RT: 10.18  
Area: 15542  
Amount: 0.087605  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.19  
Area: 23819  
Amount: 0.134259  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 16:26:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

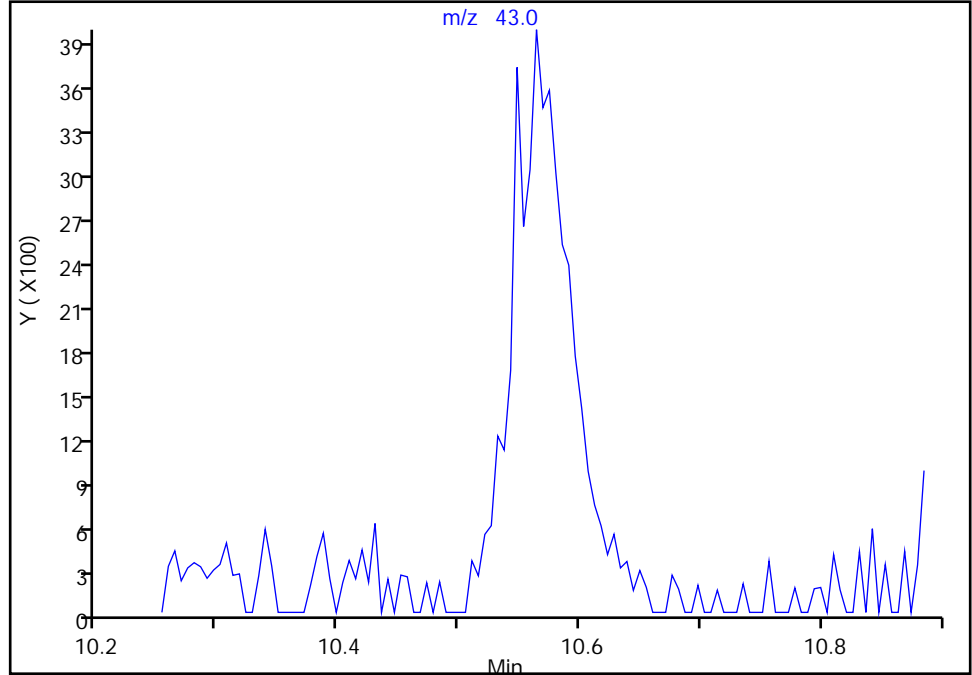
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

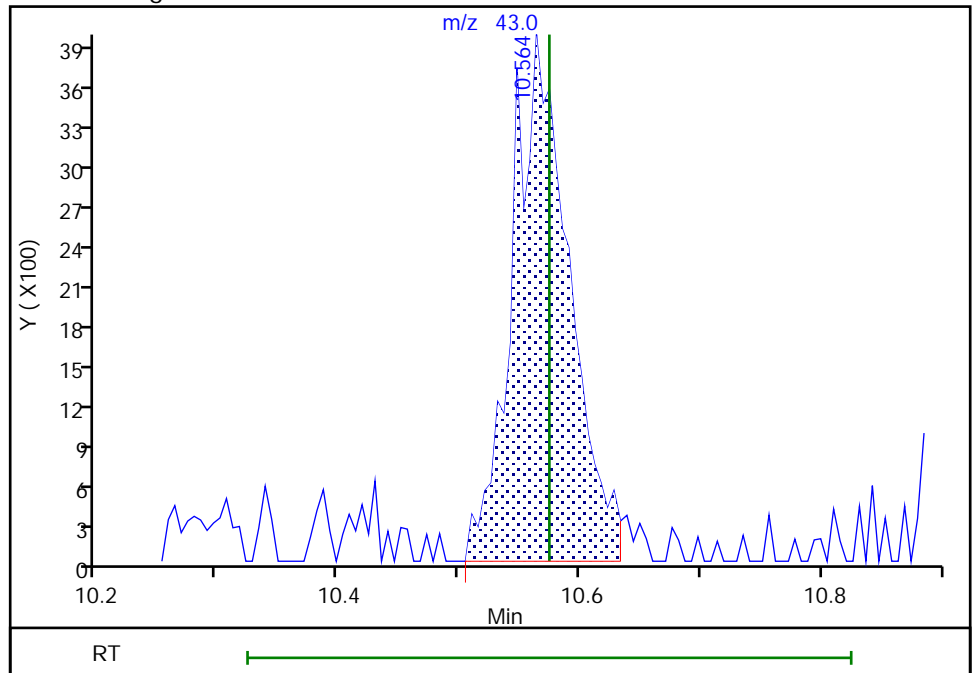
Not Detected  
Expected RT: 10.57

Processing Integration Results



Manual Integration Results

RT: 10.56  
Area: 13096  
Amount: 0.204563  
Amount Units: ppb v/v

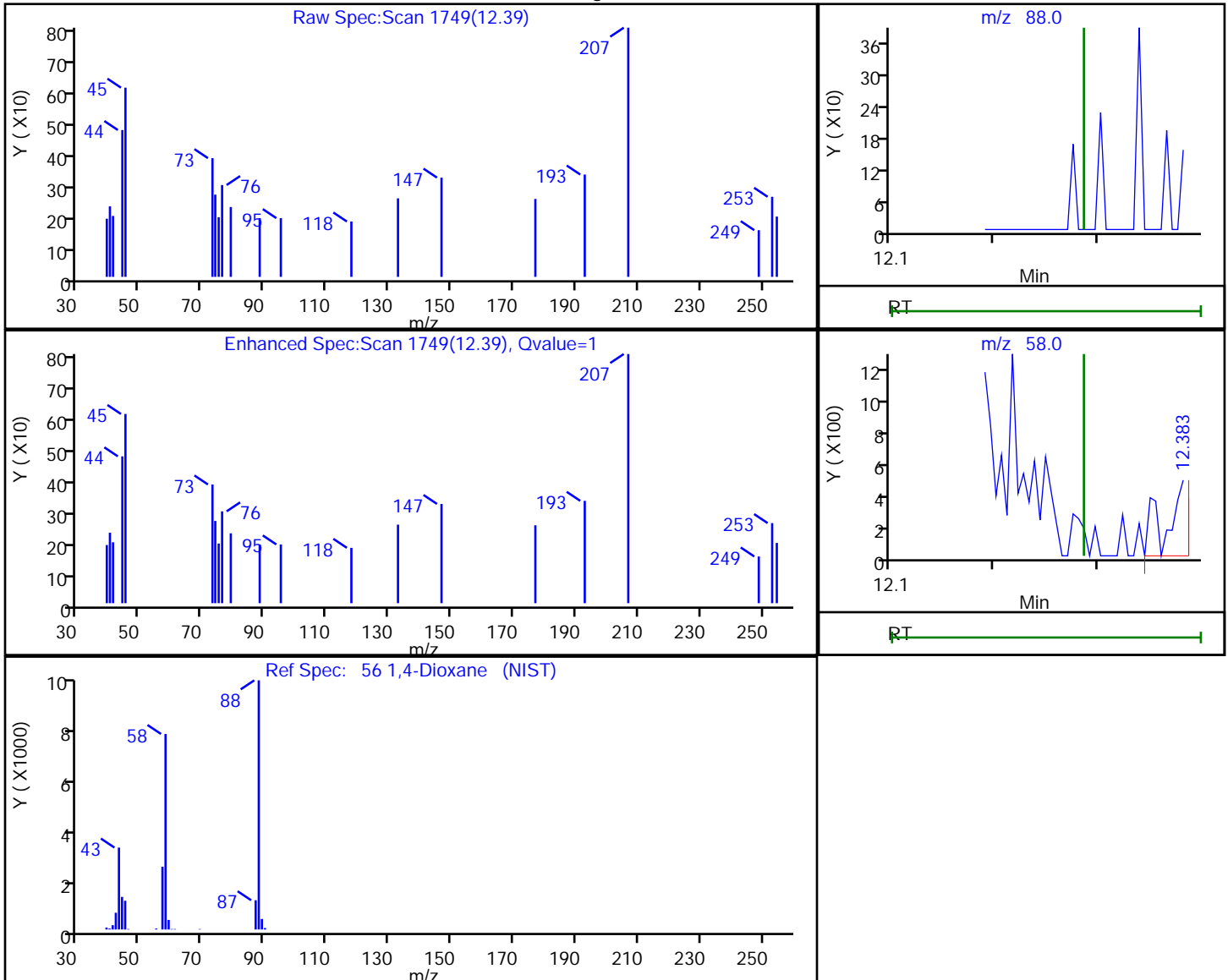


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.39 | 88.00 | 169      | 0.007389 |
| 12.38 | 58.00 | 610      |          |

Reviewer: bunmaa, 06-Dec-2018 16:27:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

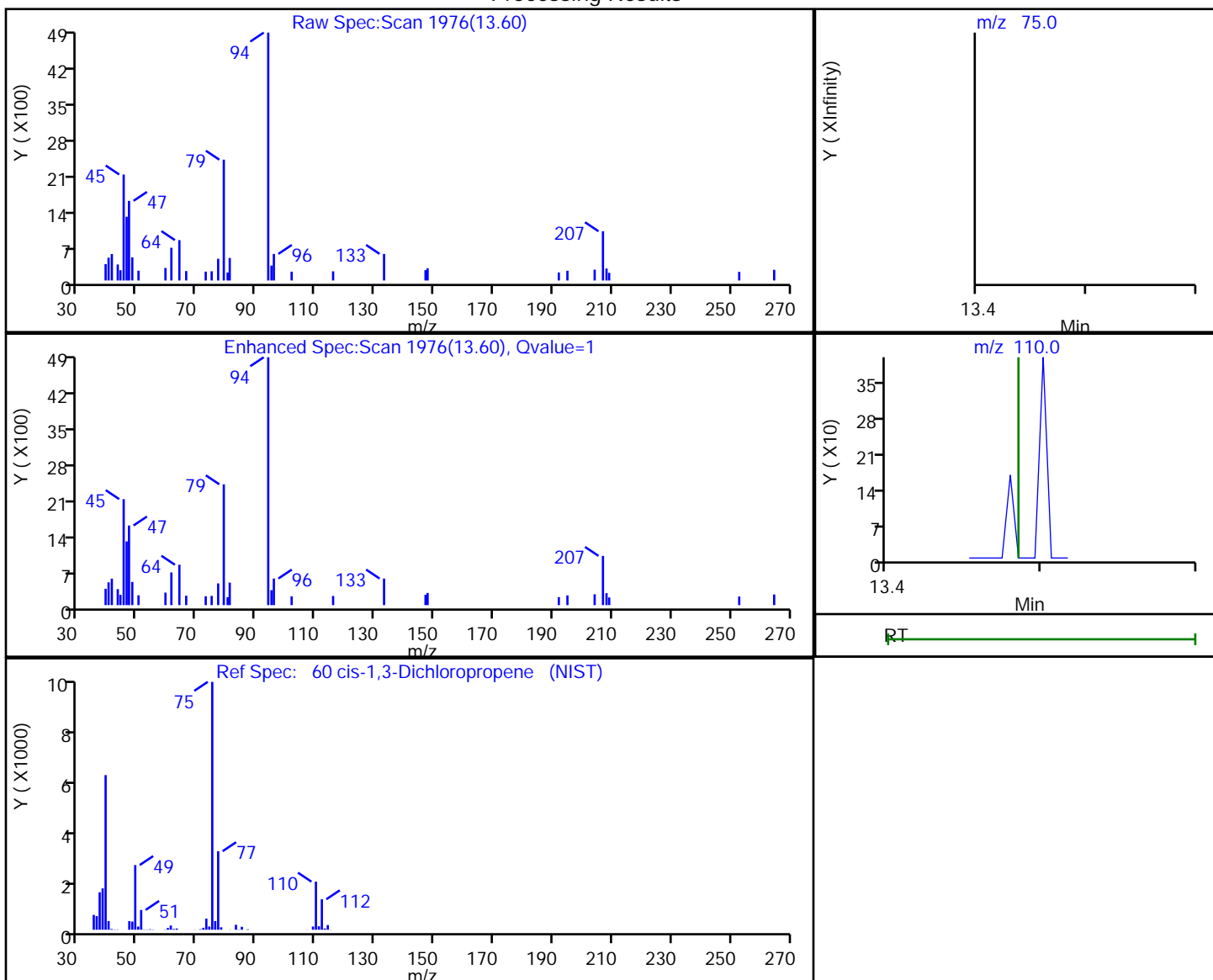


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.60 | 75.00  | 58       | 0.000741 |
| 13.48 | 110.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:27:29

Audit Action: Marked Compound Undetected

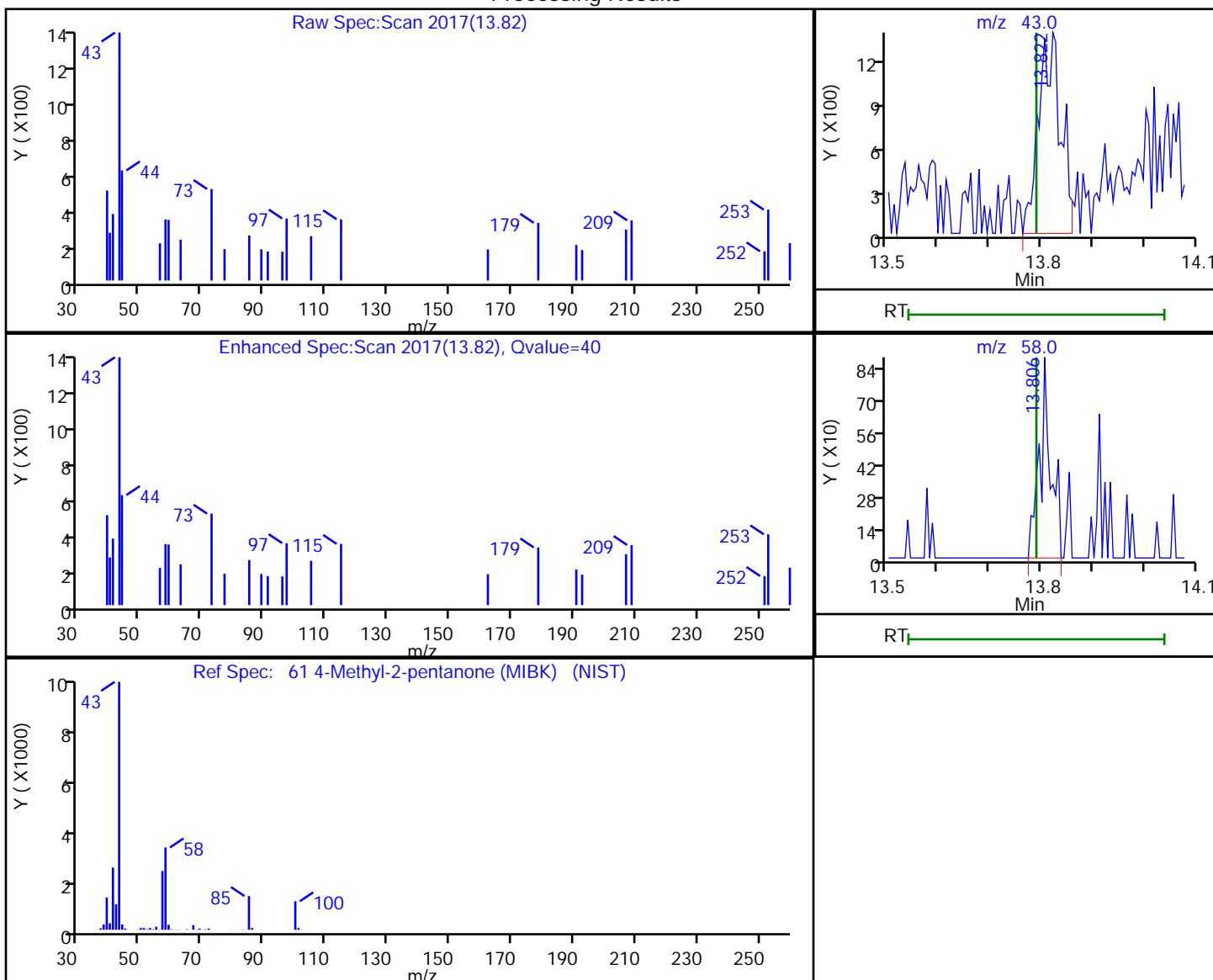
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.82 | 43.00 | 3951     | 0.048832 |
| 13.81 | 58.00 | 1363     |          |

Reviewer: bunmaa, 06-Dec-2018 16:27:41

Audit Action: Marked Compound Undetected

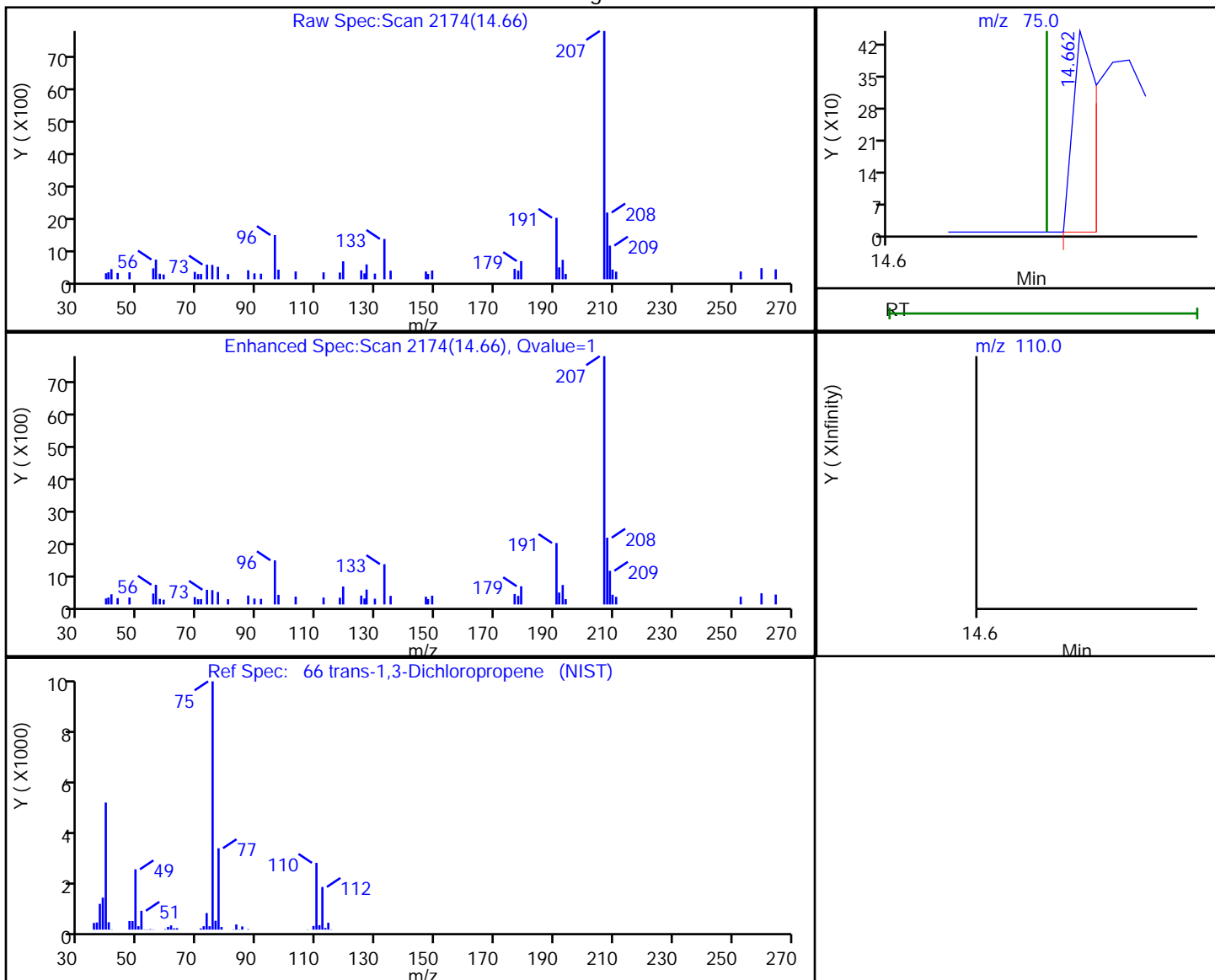
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.66 | 75.00  | 249      | 0.003234 |
| 14.65 | 110.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:27:55

Audit Action: Marked Compound Undetected

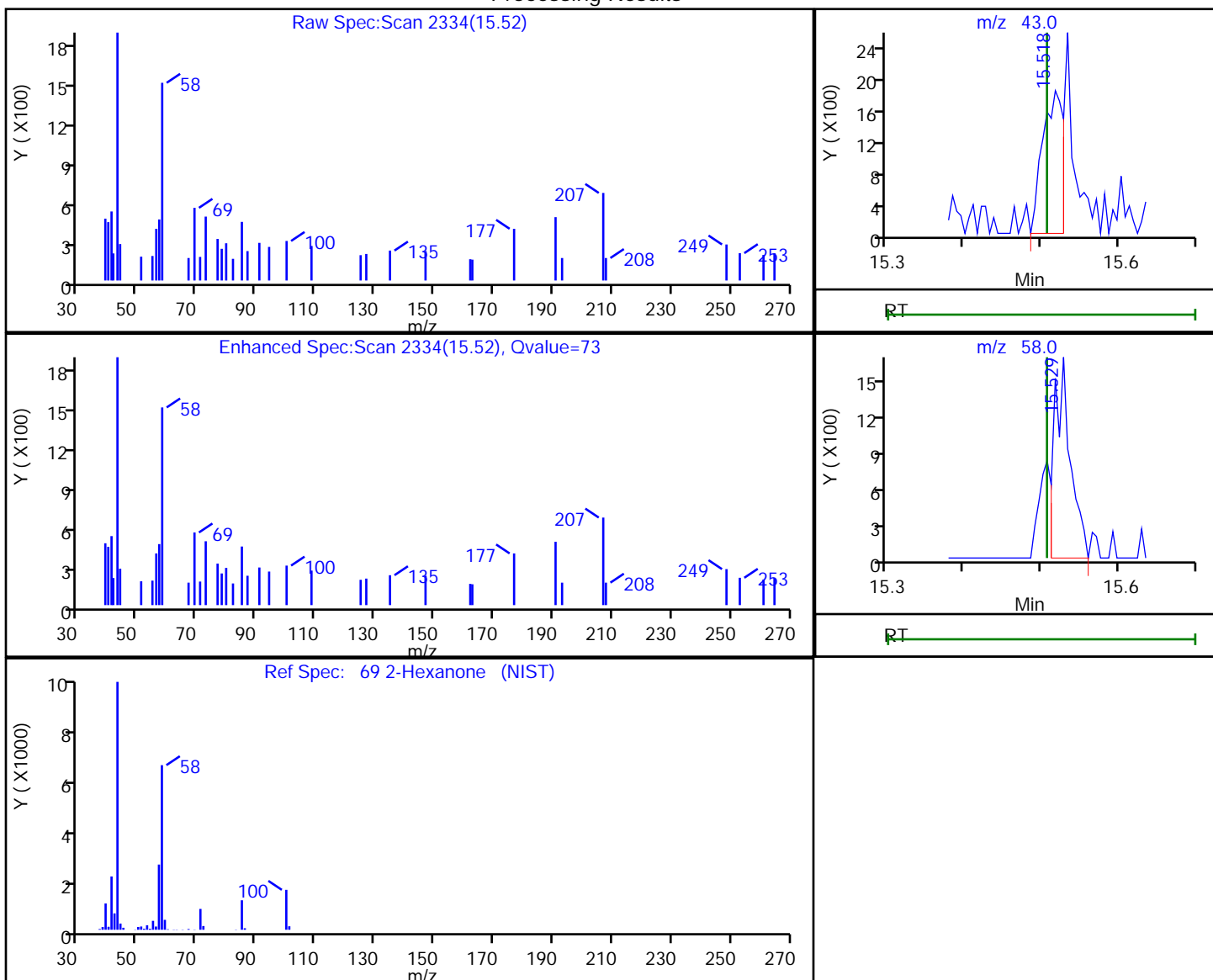
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.52 | 43.00 | 3380     | 0.038620 |
| 15.53 | 58.00 | 2361     |          |

Reviewer: bunmaa, 06-Dec-2018 16:28:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

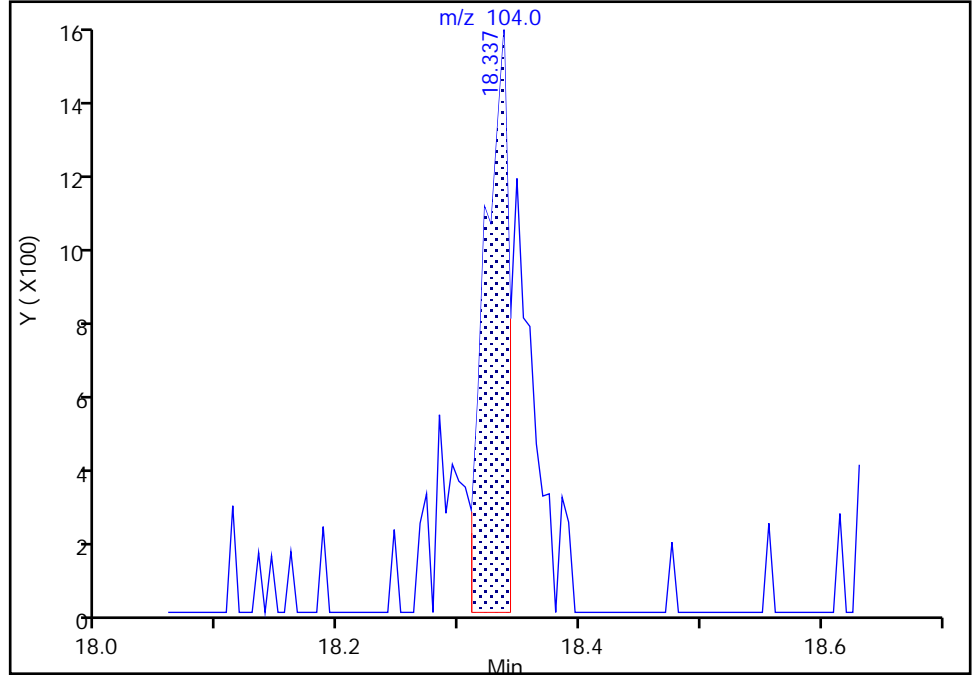
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Signal: 1

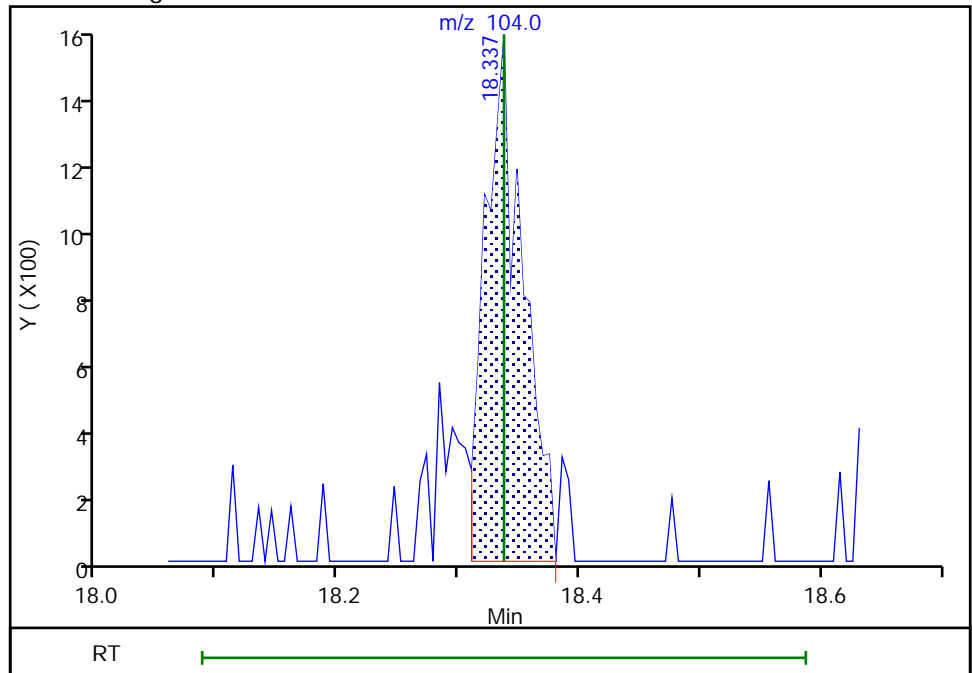
RT: 18.34  
Area: 2131  
Amount: 0.016115  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.34  
Area: 3351  
Amount: 0.025341  
Amount Units: ppb v/v

Manual Integration Results

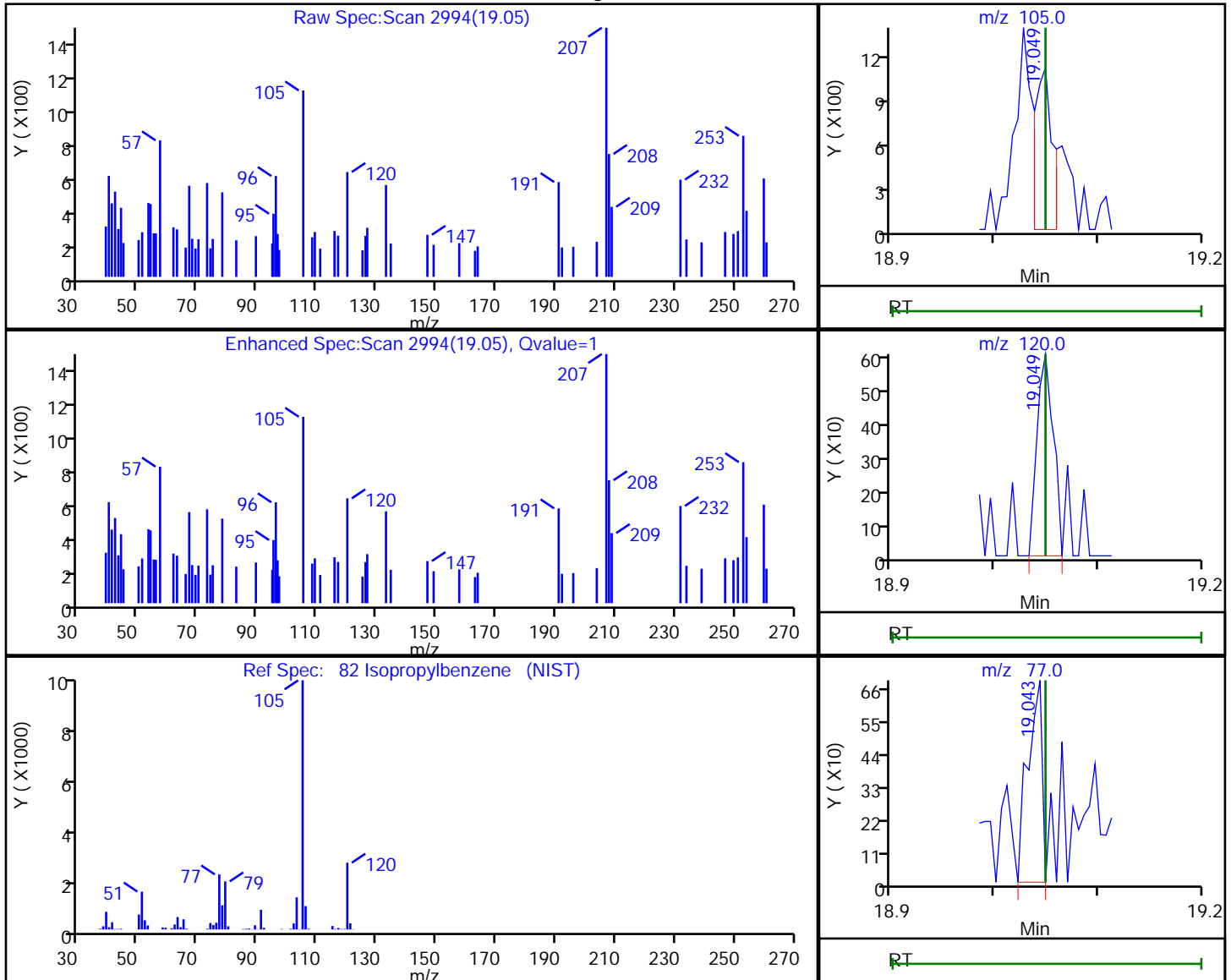


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.05 | 105.00 | 1261     | 0.004992 |
| 19.05 | 120.00 | 663      |          |
| 19.04 | 77.00  | 655      |          |

Reviewer: bunmaa, 06-Dec-2018 16:29:08  
 Audit Action: Marked Compound Undetected

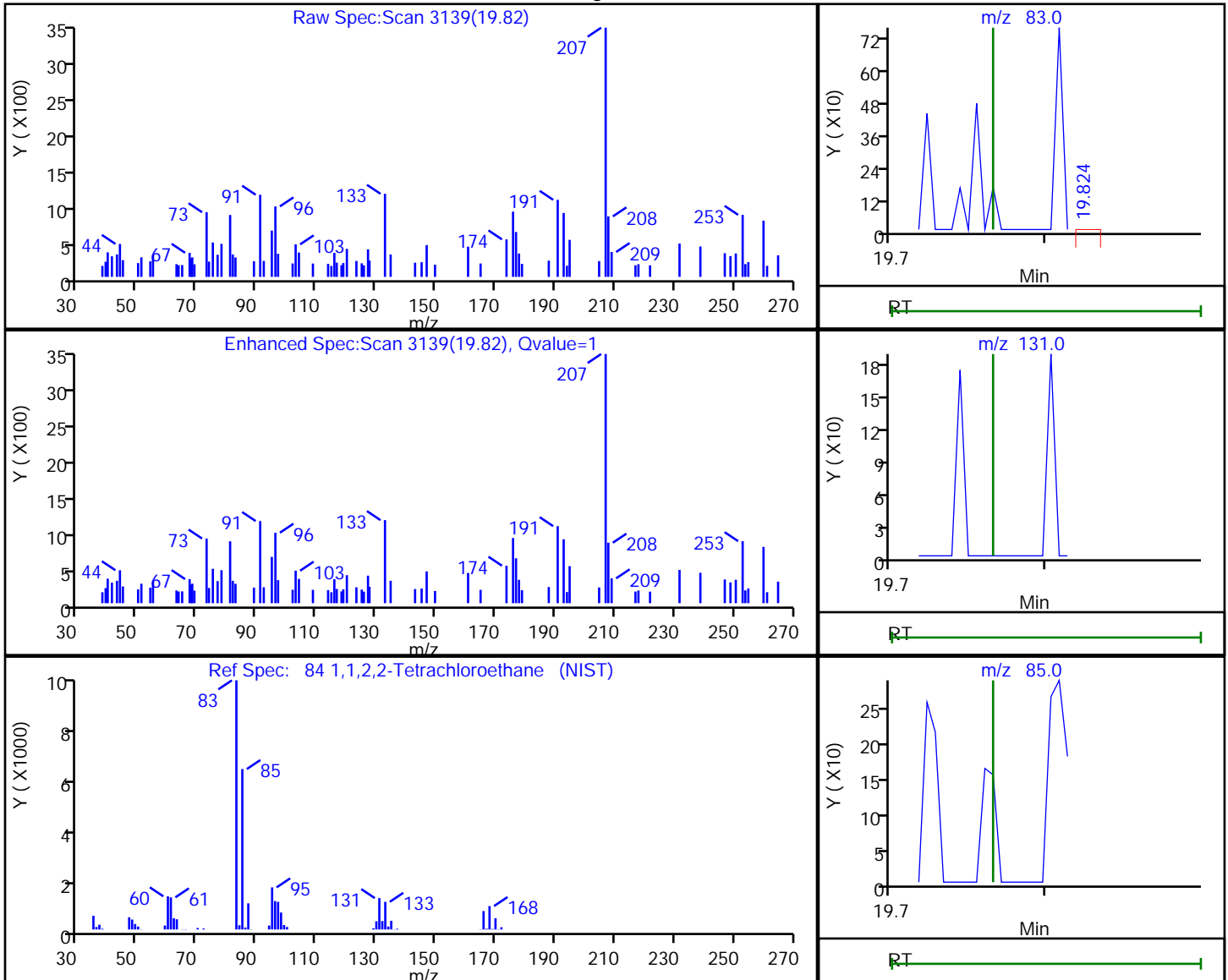
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.82 | 83.00  | 165      | 0.001197 |
| 19.77 | 131.00 | 0        |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:29:11  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

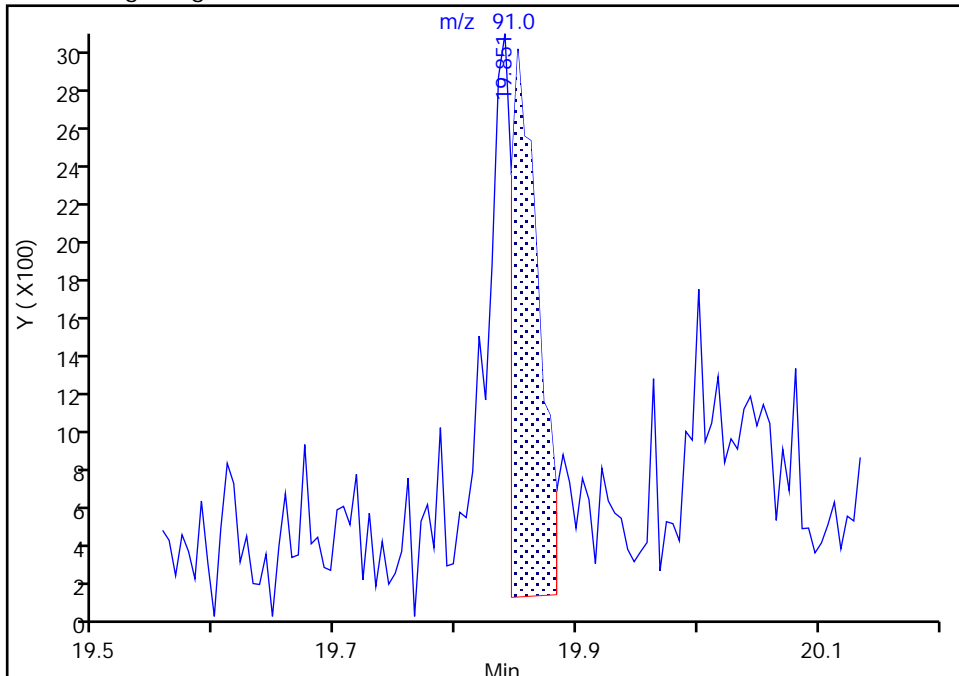
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

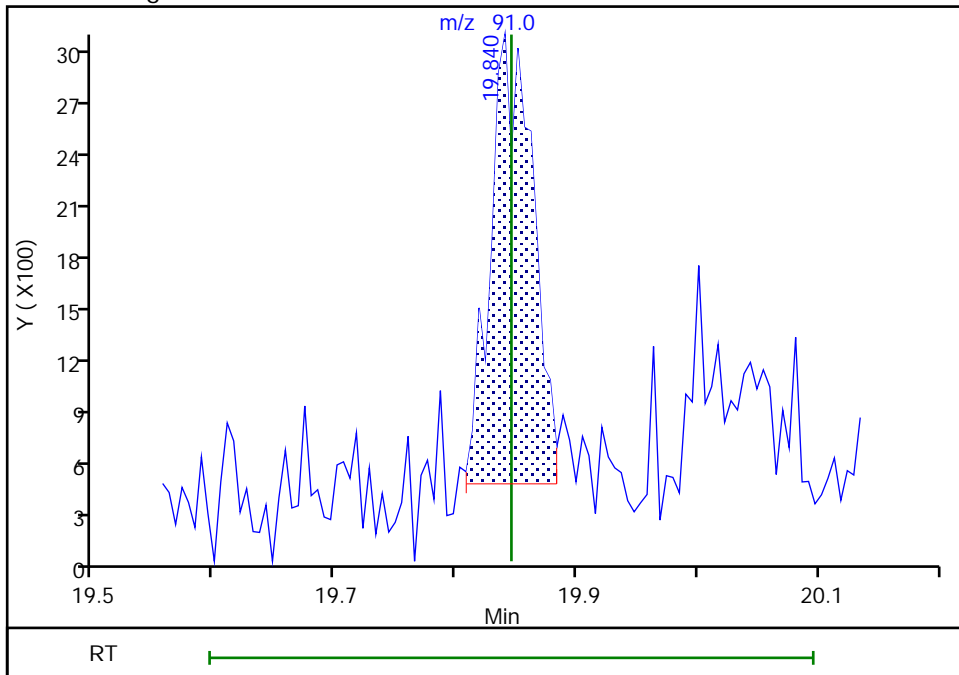
RT: 19.85  
Area: 4508  
Amount: 0.014988  
Amount Units: ppb v/v

Processing Integration Results



RT: 19.84  
Area: 6336  
Amount: 0.021066  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 16:29:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

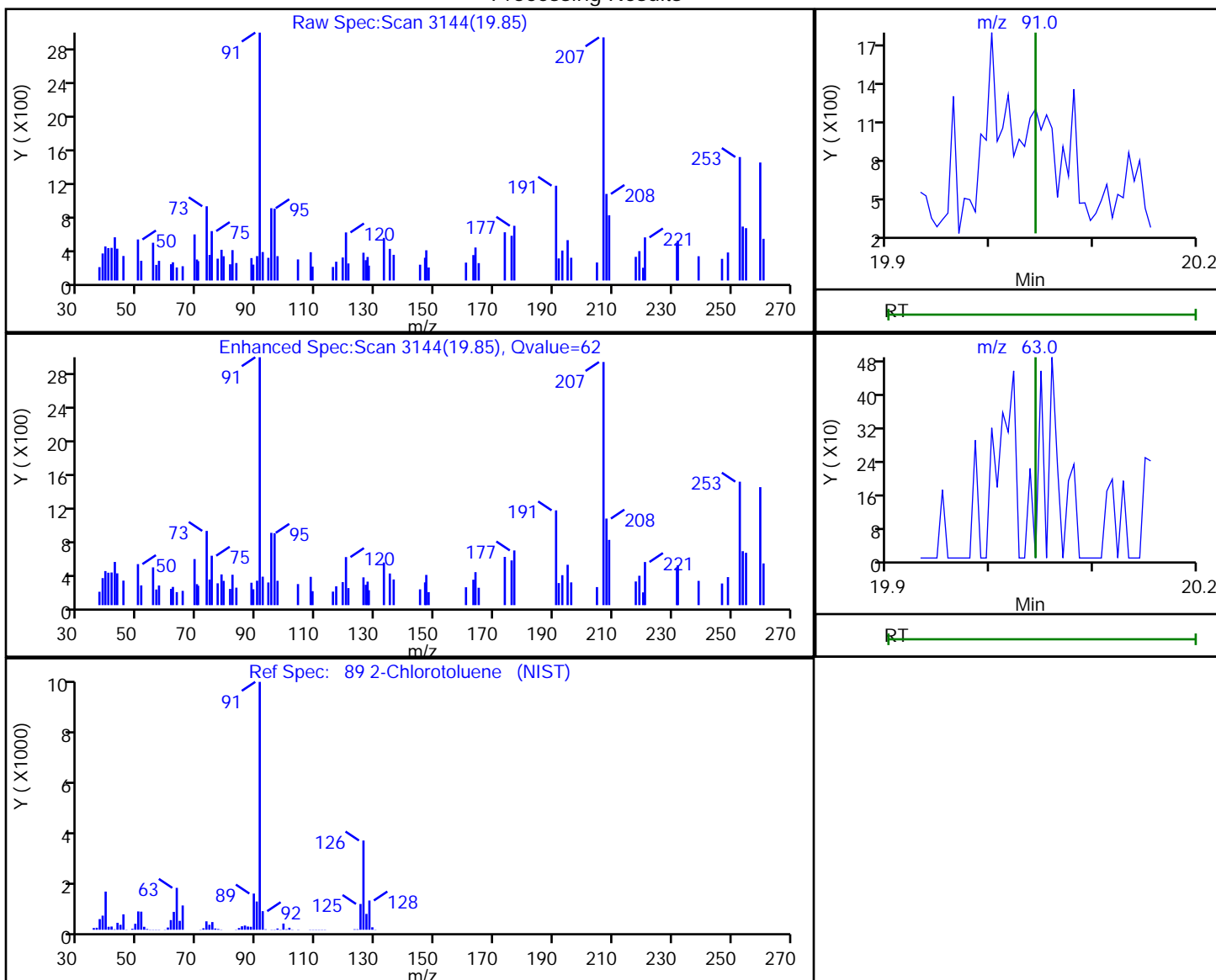


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 19.85 | 91.00 | 4507     | 0.019841 |
| 20.04 | 63.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:29:35

Audit Action: Marked Compound Undetected

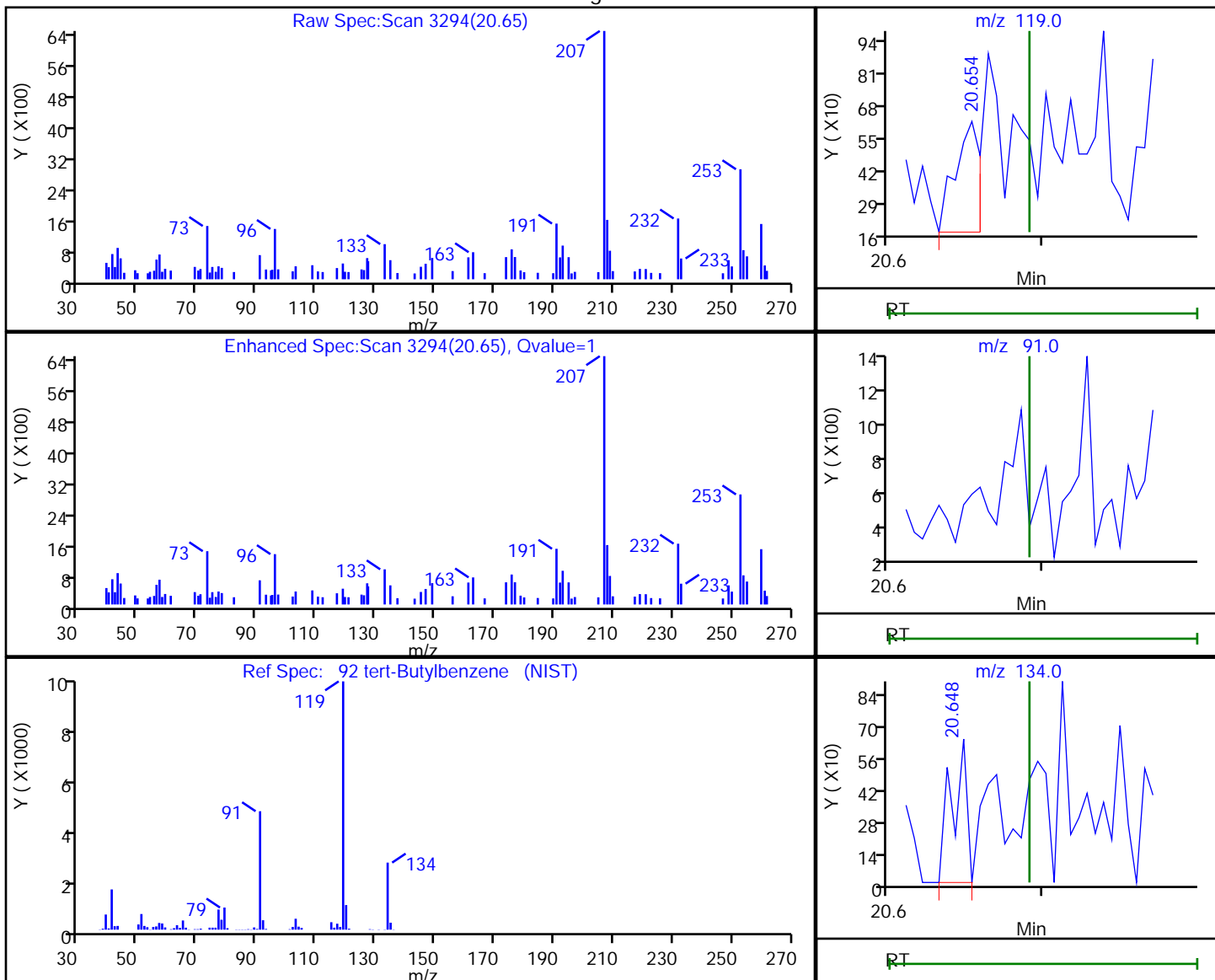
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.65 | 119.00 | 500      | 0.002440 |
| 20.65 | 134.00 | 435      |          |
| 20.69 | 91.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:29:47  
 Audit Action: Marked Compound Undetected

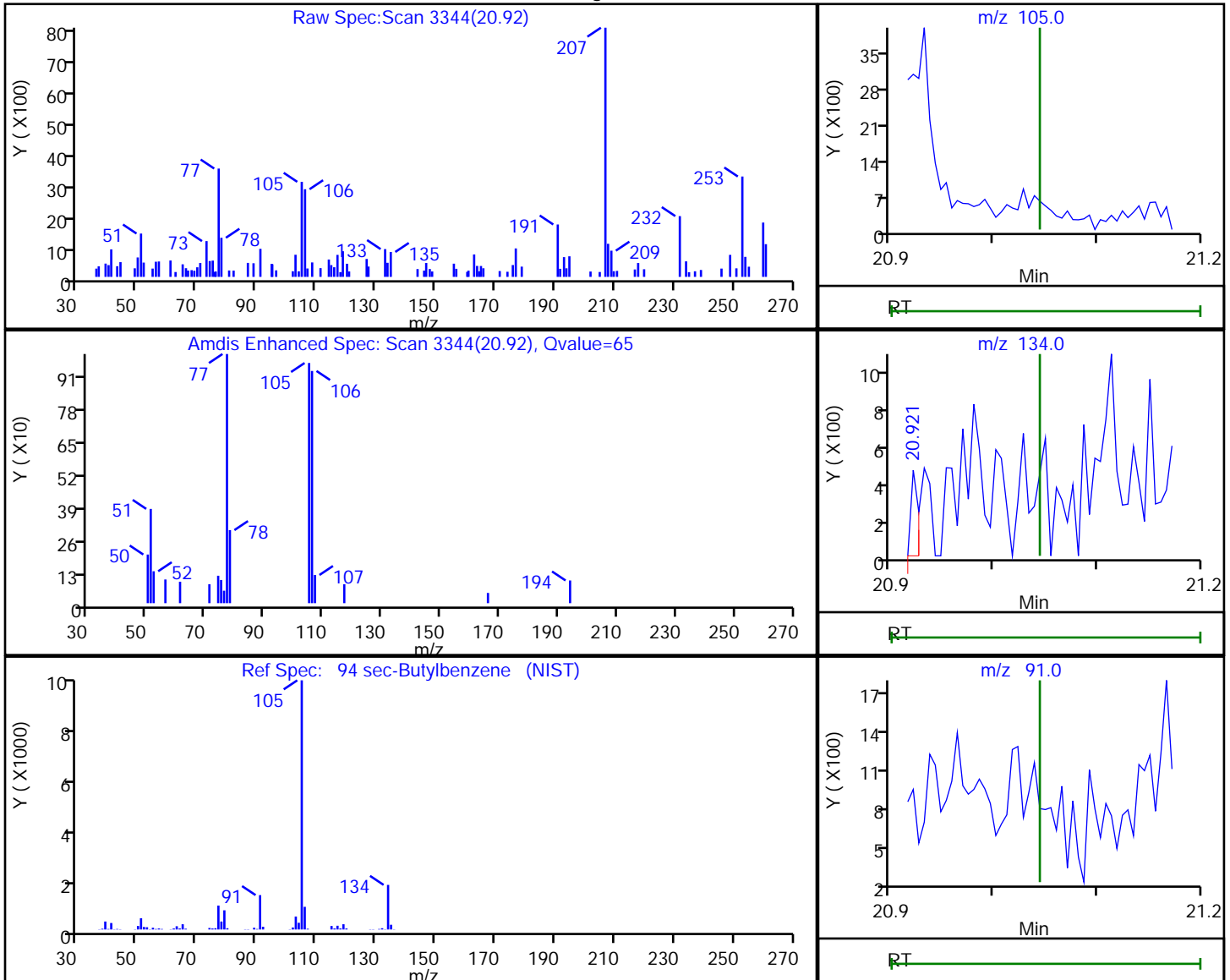
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 4755     | 0.015649 |
| 20.92 | 134.00 | 221      |          |
| 20.89 | 91.00  | 391      |          |

Reviewer: bunmaa, 06-Dec-2018 16:29:55  
 Audit Action: Marked Compound Undetected

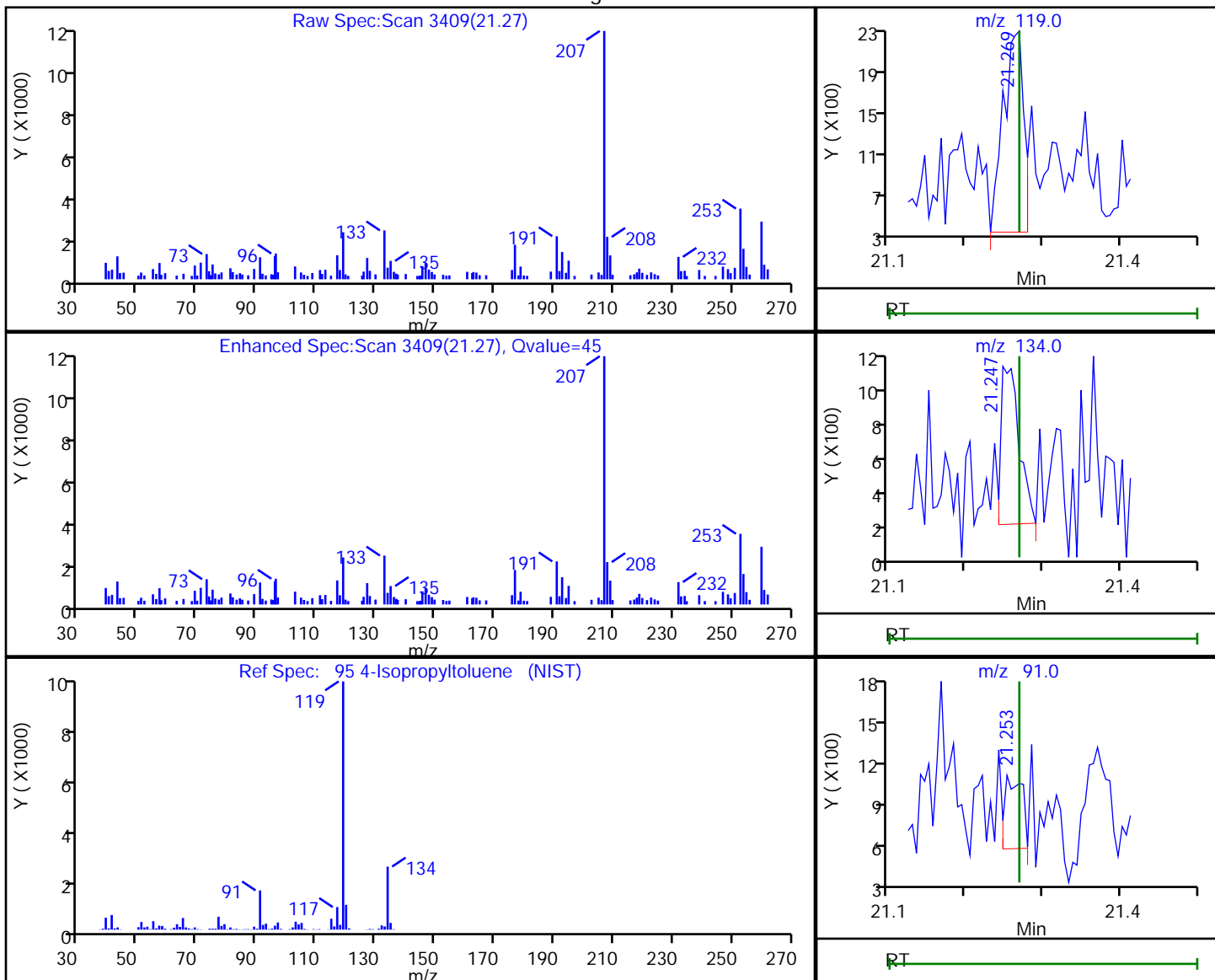
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.27 | 119.00 | 3388     | 0.013009 |
| 21.25 | 134.00 | 1439     |          |
| 21.25 | 91.00  | 753      |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:03  
 Audit Action: Marked Compound Undetected

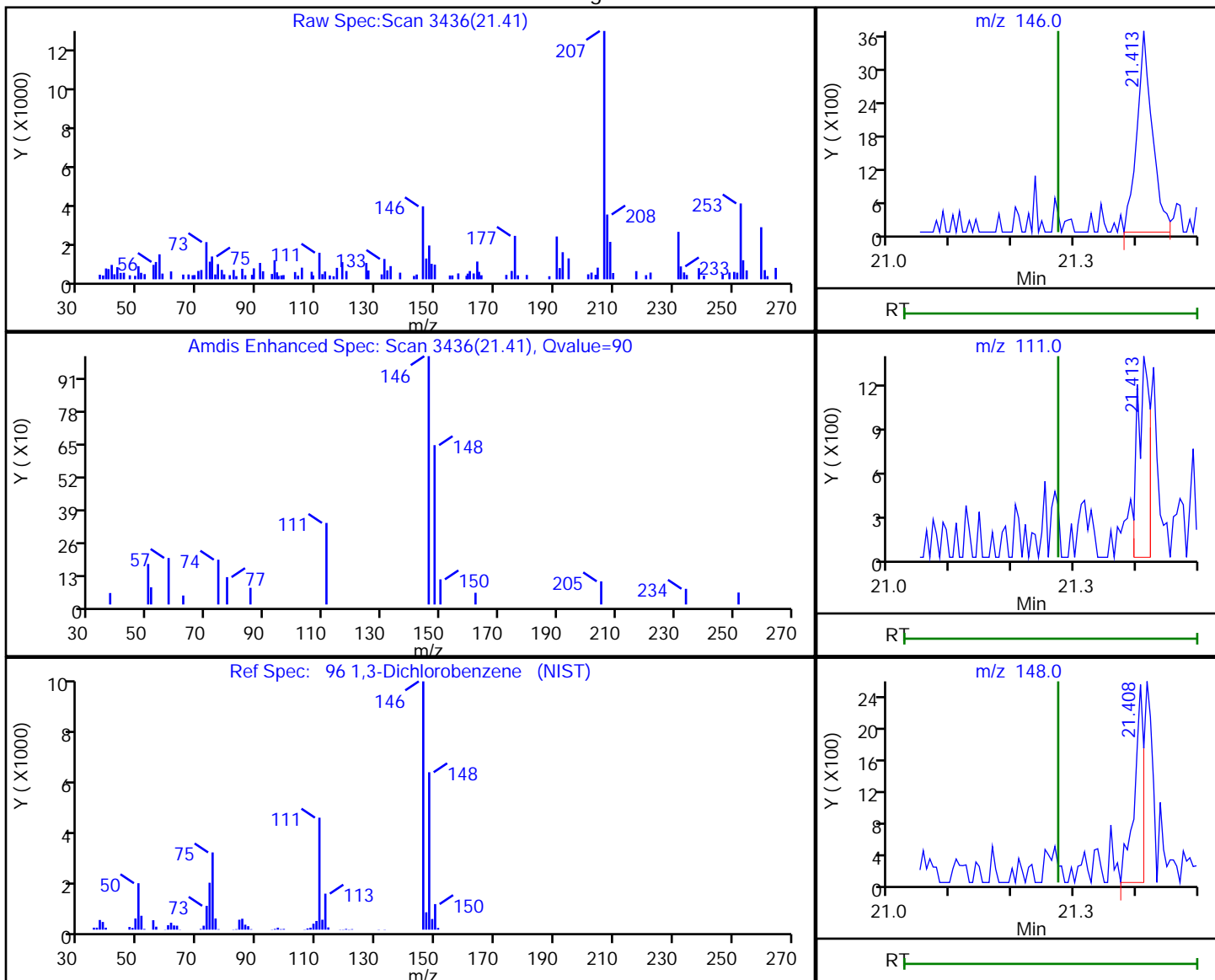
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.41 | 146.00 | 6300     | 0.035966 |
| 21.41 | 111.00 | 1766     |          |
| 21.41 | 148.00 | 2636     |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:06  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

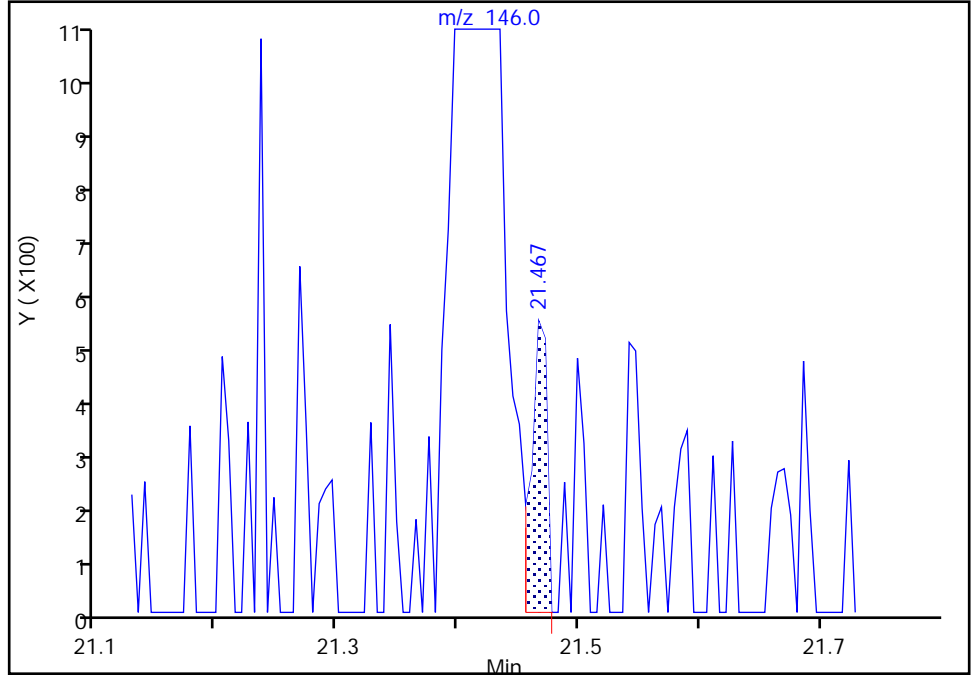
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

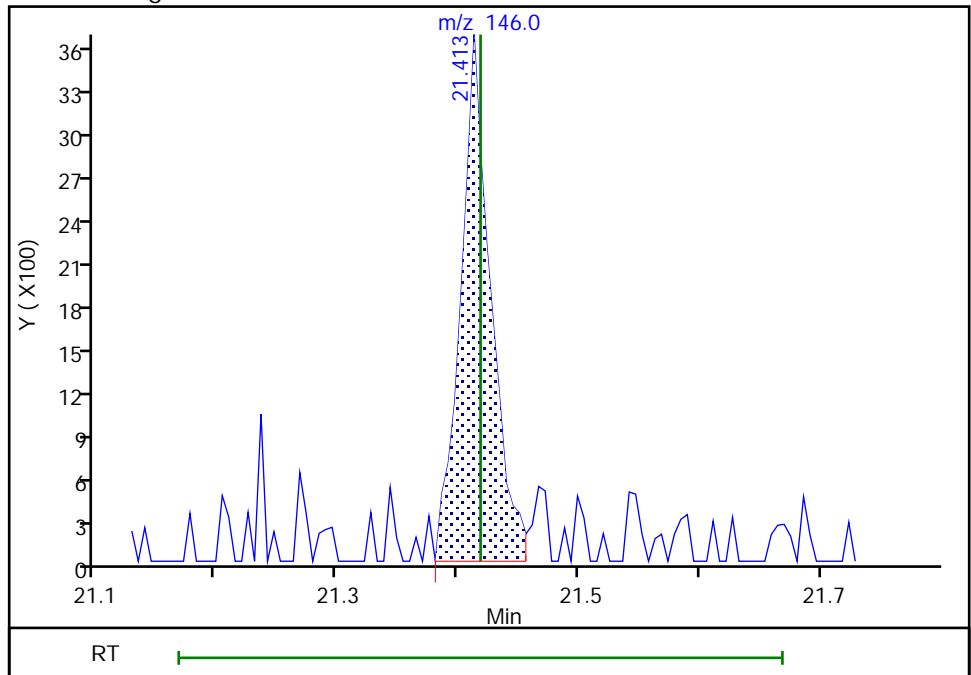
RT: 21.47  
Area: 463  
Amount: 0.002764  
Amount Units: ppb v/v

Processing Integration Results



RT: 21.41  
Area: 6300  
Amount: 0.037611  
Amount Units: ppb v/v

Manual Integration Results

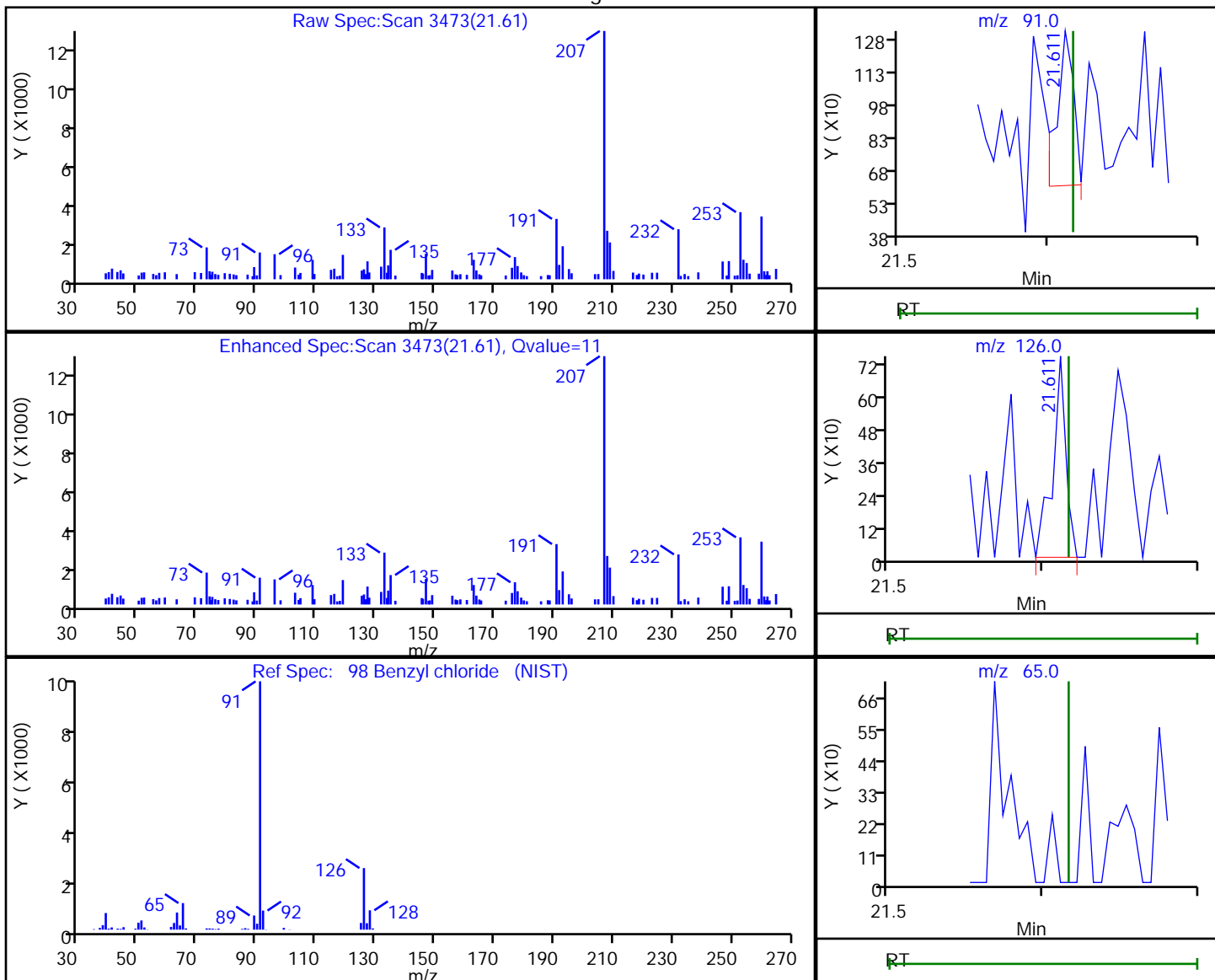


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.61 | 91.00  | 557      | 0.002694 |
| 21.61 | 126.00 | 446      |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:18  
 Audit Action: Marked Compound Undetected

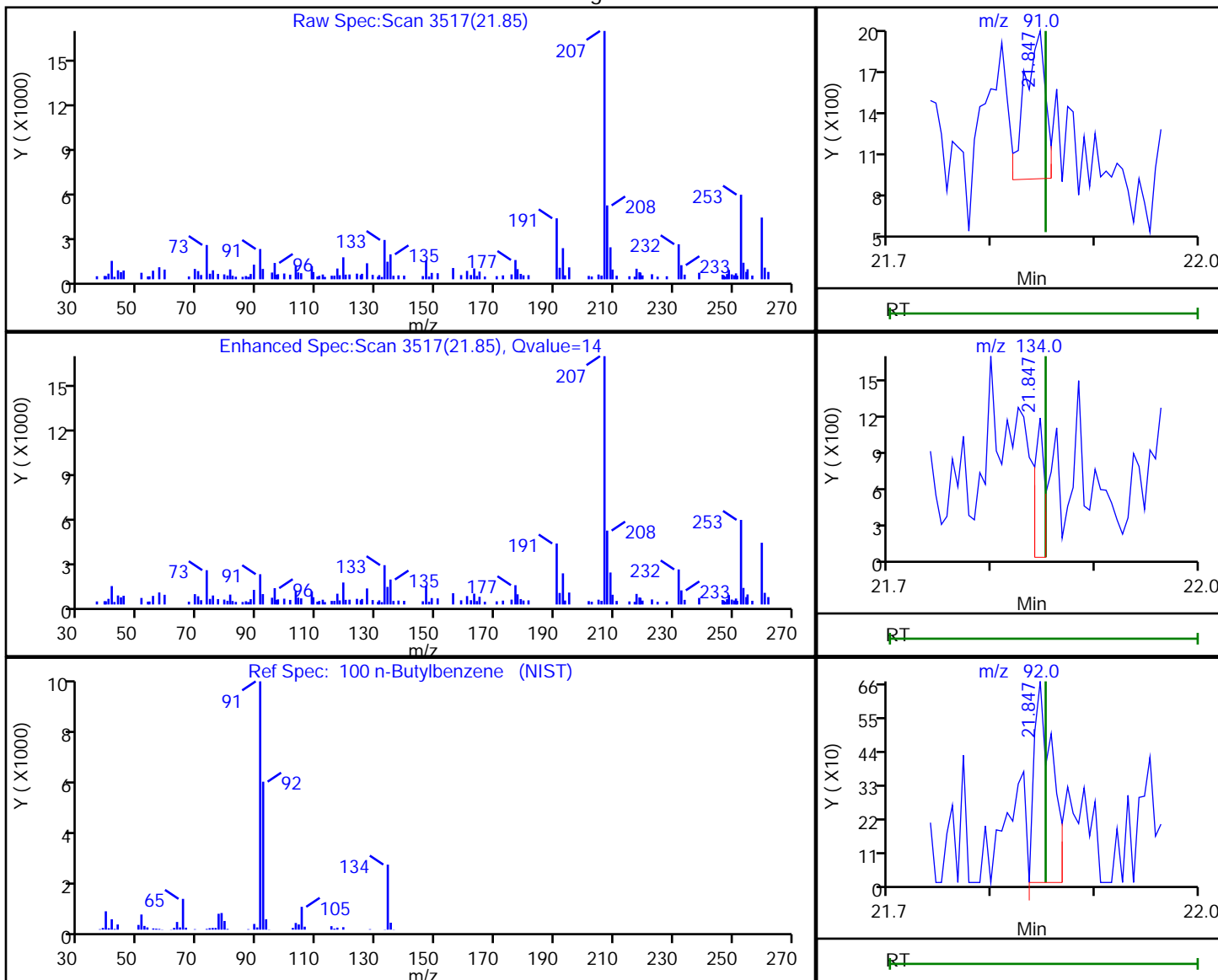
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 1397     | 0.005884 |
| 21.85 | 134.00 | 765      |          |
| 21.85 | 92.00  | 817      |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:23  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

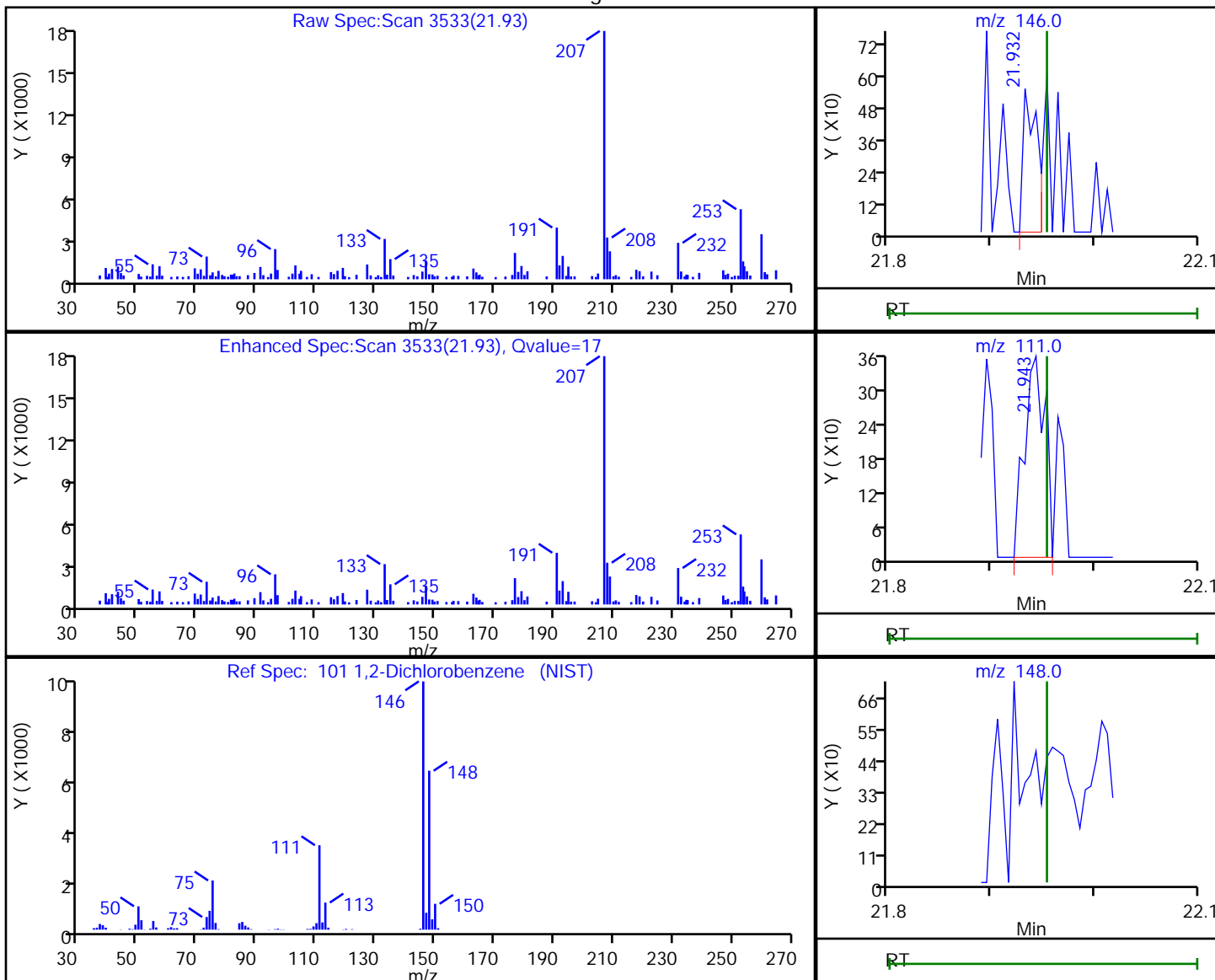


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.93 | 146.00 | 514      | 0.003193 |
| 21.94 | 111.00 | 495      |          |
| 21.95 | 148.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:27

Audit Action: Marked Compound Undetected

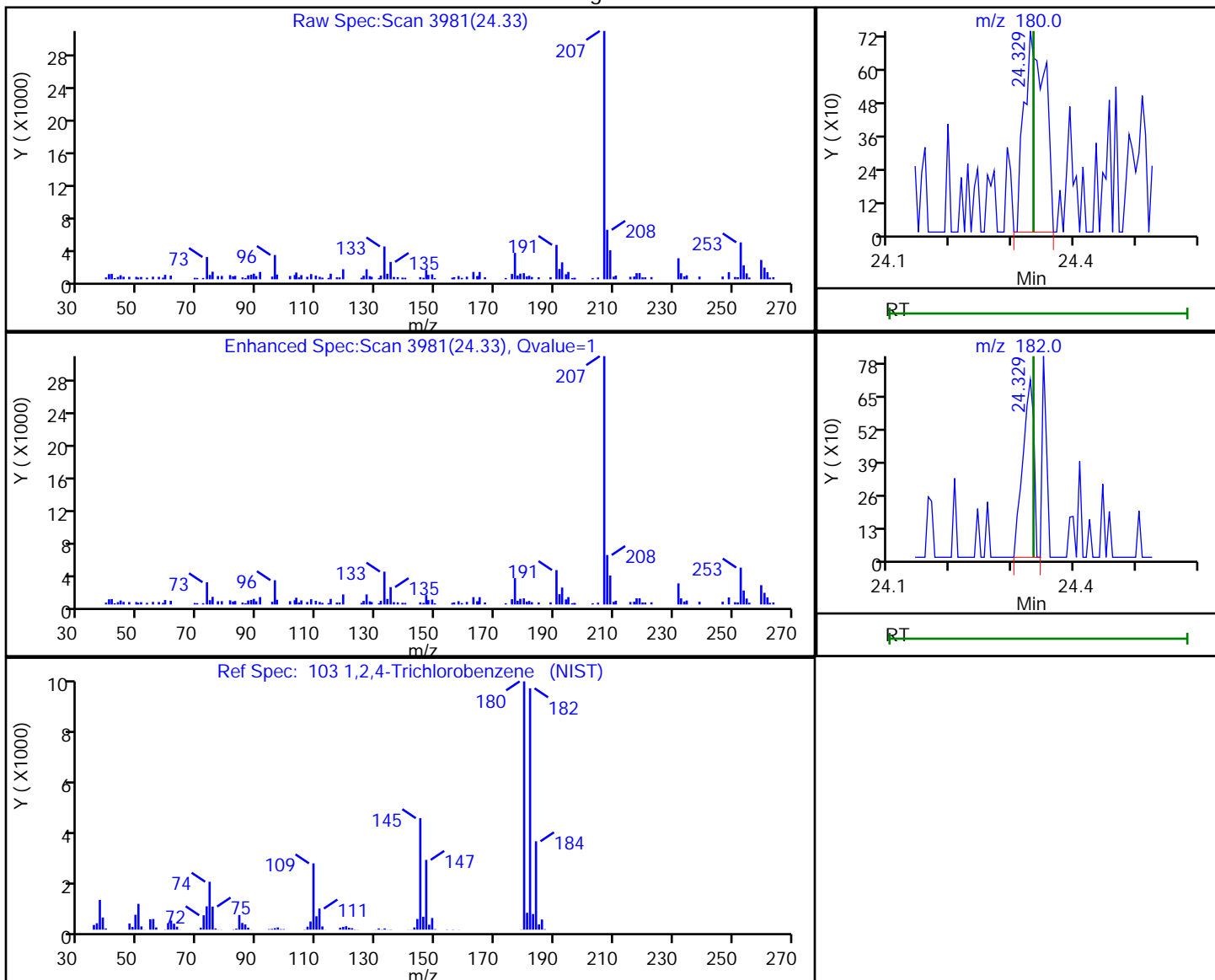
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 1717     | 0.014190 |
| 24.33 | 182.00 | 879      |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:30

Audit Action: Marked Compound Undetected

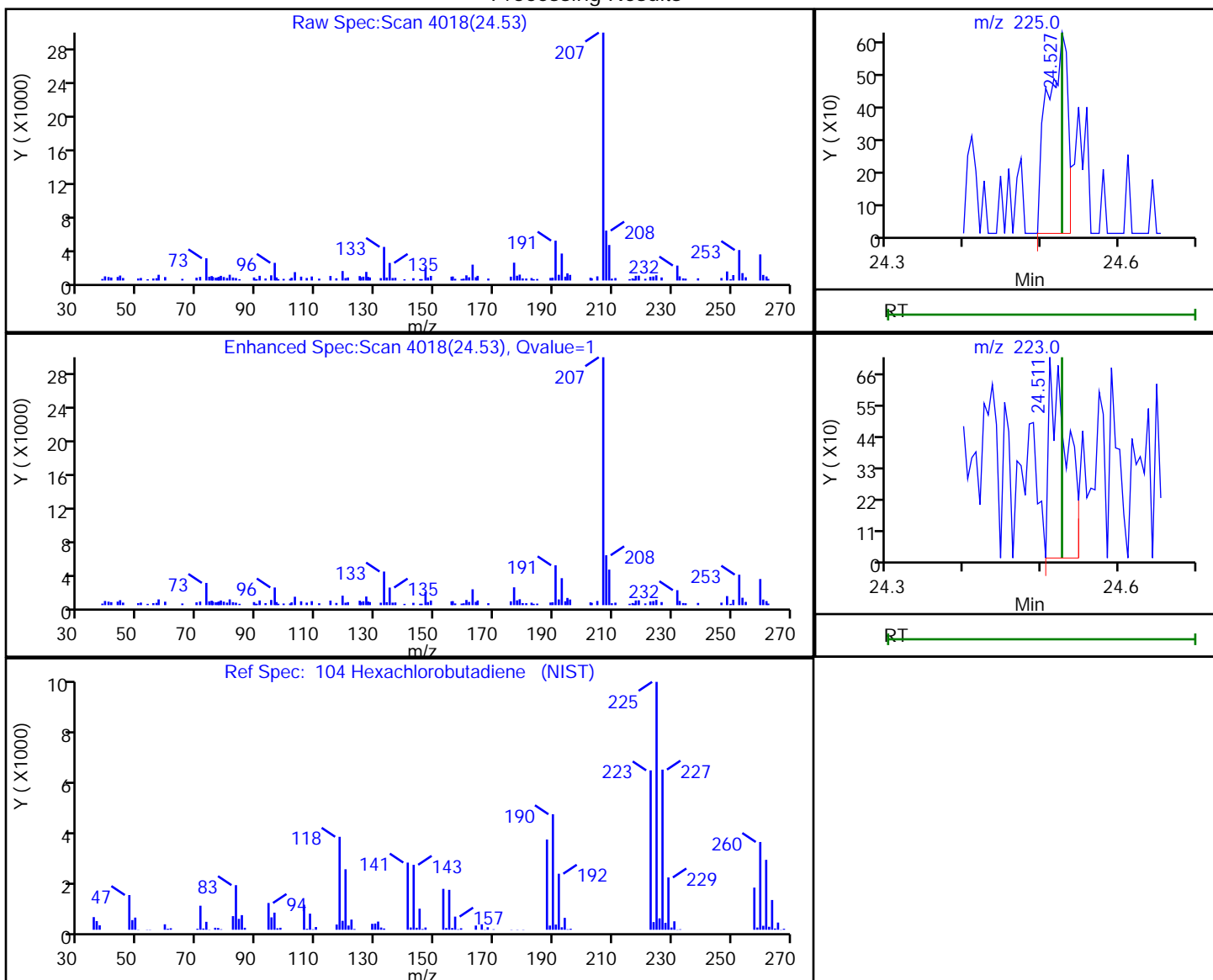
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
 Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
 Client ID: AA-1\_20181120  
 Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 1143     | 0.009496 |
| 24.51 | 223.00 | 1164     |          |

Reviewer: bunmaa, 06-Dec-2018 16:30:35

Audit Action: Marked Compound Undetected

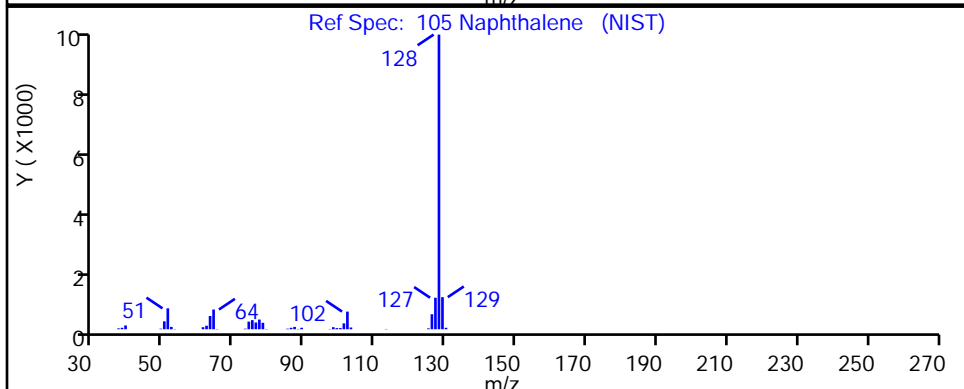
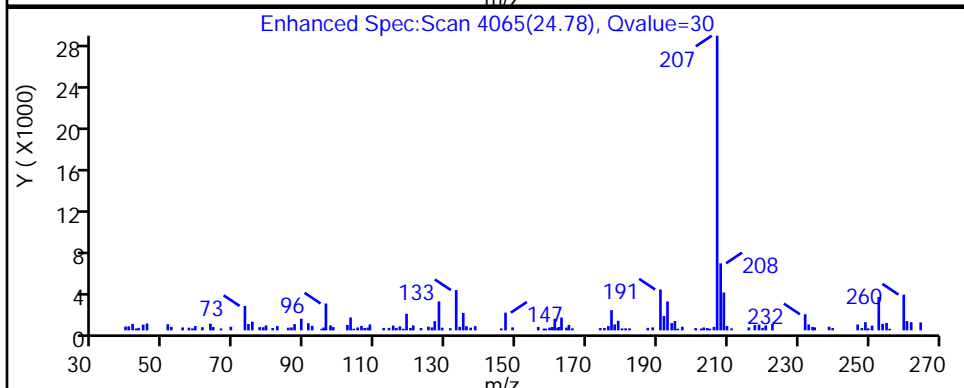
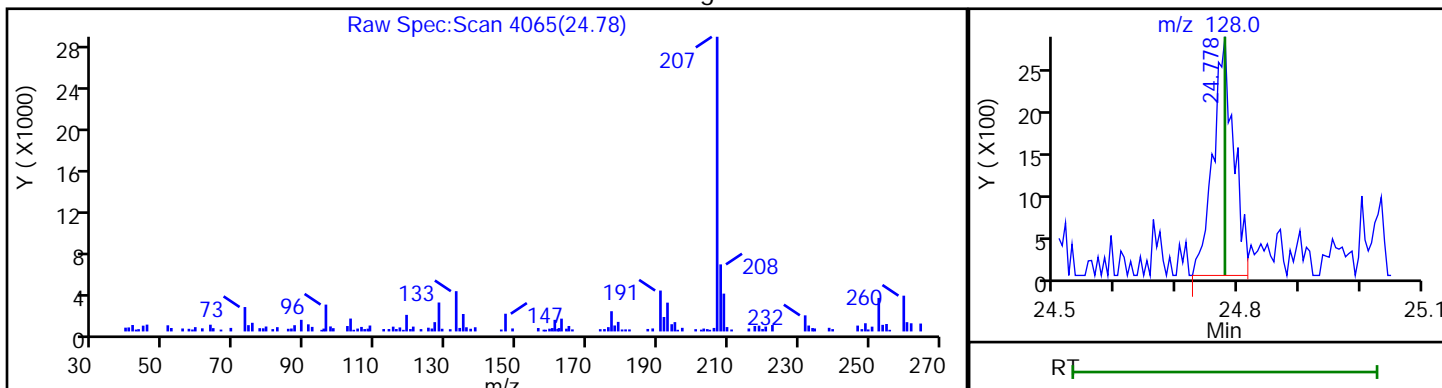
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-017.D  
Injection Date: 06-Dec-2018 03:30:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-1 Lab Sample ID: 200-46353-1  
Client ID: AA-1\_20181120  
Operator ID: ert ALS Bottle#: 17 Worklist Smp#: 17  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.78 | 128.00 | 6610     | 0.028177 |

Reviewer: bunmaa, 06-Dec-2018 16:30:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.53   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.52   |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.2    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 200    | E | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.23   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.91   |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.80   |   | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.22   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.058  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.30   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.74   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 2.0    |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 11     |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 3.7    |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.24   |   | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.6    |   | 2.5  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1    |   | 1.2  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2    |   | 1.1  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 480    | E | 12   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.81   |   | 0.70 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.7    |   | 1.5  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 3.9    |   | 0.98 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.76   |   | 0.69 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.37   |   | 0.22 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |  |
| 71-43-2   | Benzene                          | 78.11            | 0.96   |   | 0.64 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 2.8    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 8.7    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 46     |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 16     |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 1.0    |   | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.96   |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Lims ID: 200-46353-A-2  
 Client ID: IA-1\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 04:21:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-018  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 17:33:28 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa

Date: 06-Dec-2018 17:20:50

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.156         | -0.011         | 99  | 118319   | 0.5339            |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.183         | 0.000          | 96  | 35202    | 0.3731            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |                |     |          | ND                | MU    |
| 5 Chloromethane               | 50  | 3.454     | 3.467         | -0.011         | 98  | 22476    | 0.5212            |       |
| 6 Butane                      | 43  | 3.604     | 3.606         | 0.000          | 97  | 125395   | 2.16              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |     |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.762         | -0.001         | 98  | 38540    | 0.2200            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599     | 5.608         | -0.006         | 82  | 8517     | 0.0690            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.840     | 5.859         | -0.016         | 99  | 9415884  | 203.6             | E     |
| 23 Carbon disulfide           | 76  |           | 6.017         |                |     |          | ND                | MU    |
| 24 Isopropyl alcohol          | 45  | 6.113     | 6.100         | 0.016          | 100 | 67617    | 1.32              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |     |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.562     | 6.562         | 0.005          | 87  | 8528     | 0.1740            | M     |
| 28 2-Methyl-2-propanol        | 59  | 6.803     | 6.803         | 0.032          | 50  | 13729    | 0.1757            | M     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |                |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |                |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.274     | 7.283         | -0.005         | 90  | 12127    | 0.2312            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.798     | 8.798         | 0.005          | 100 | 15142    | 0.9124            |       |
| * 40 Chlorobromomethane       | 128 | 9.157     | 9.152         | 0.005          | 74  | 594049   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |                |     |          | ND                | MU    |
| 42 Chloroform                 | 83  | 9.269     | 9.274         | 0.000          | 95  | 99569    | 0.8024            |       |
| 43 Cyclohexane                | 84  | 9.531     | 9.531         | 0.000          | 92  | 14205    | 0.2199            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.783     | 9.778         | 0.000          | 77  | 9753     | 0.0584            |       |
| 46 Isooctane                  | 57  | 10.189    | 10.190        | -0.006         | 94  | 29927    | 0.1400            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.211        | -0.005        | 97 | 44945    | 0.2999            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                | MU    |
| 49 n-Heptane                   | 43  | 10.569    | 10.569        | -0.006        | 85 | 9999     | 0.1297            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2814494  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                | MU    |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.559        | 0.010         | 95 | 6497     | 0.0427            | M     |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                |       |
| 65 Toluene                     | 92  | 14.057    | 14.068        | -0.011        | 94 | 77953    | 0.7383            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | MU    |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.132    | 15.143        | -0.011        | 96 | 15868    | 0.1255            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 84 | 2606476  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.181    | 17.181        | -0.001        | 98 | 476126   | 2.00              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.433    | 17.433        | 0.000         | 0  | 1014641  | 10.5              |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.294        | -0.005        | 99 | 338313   | 3.69              |       |
| 80 Styrene                     | 104 | 18.332    | 18.337        | -0.005        | 92 | 33656    | 0.2400            |       |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 | 19.048    | 19.048        | -0.001        | 92 | 9615     | 0.0359            | M     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.840    | 19.840        | -0.006        | 90 | 12287    | 0.0385            | M     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | MU    |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.054        | 0.000         | 75 | 13158    | 0.0485            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.177        | 0.000         | 91 | 10189    | 0.0439            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.792    | 20.798        | -0.006        | 98 | 44916    | 0.1960            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | MU    |
| 95 4-Isopropyltoluene          | 119 | 21.263    | 21.269        | -0.006        | 93 | 7894     | 0.0286            |       |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 | 21.418    | 21.418        | 0.000         | 89 | 8974     | 0.0505            | a     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |

### QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Worklist Smp#: 18

Client ID: IA-1\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

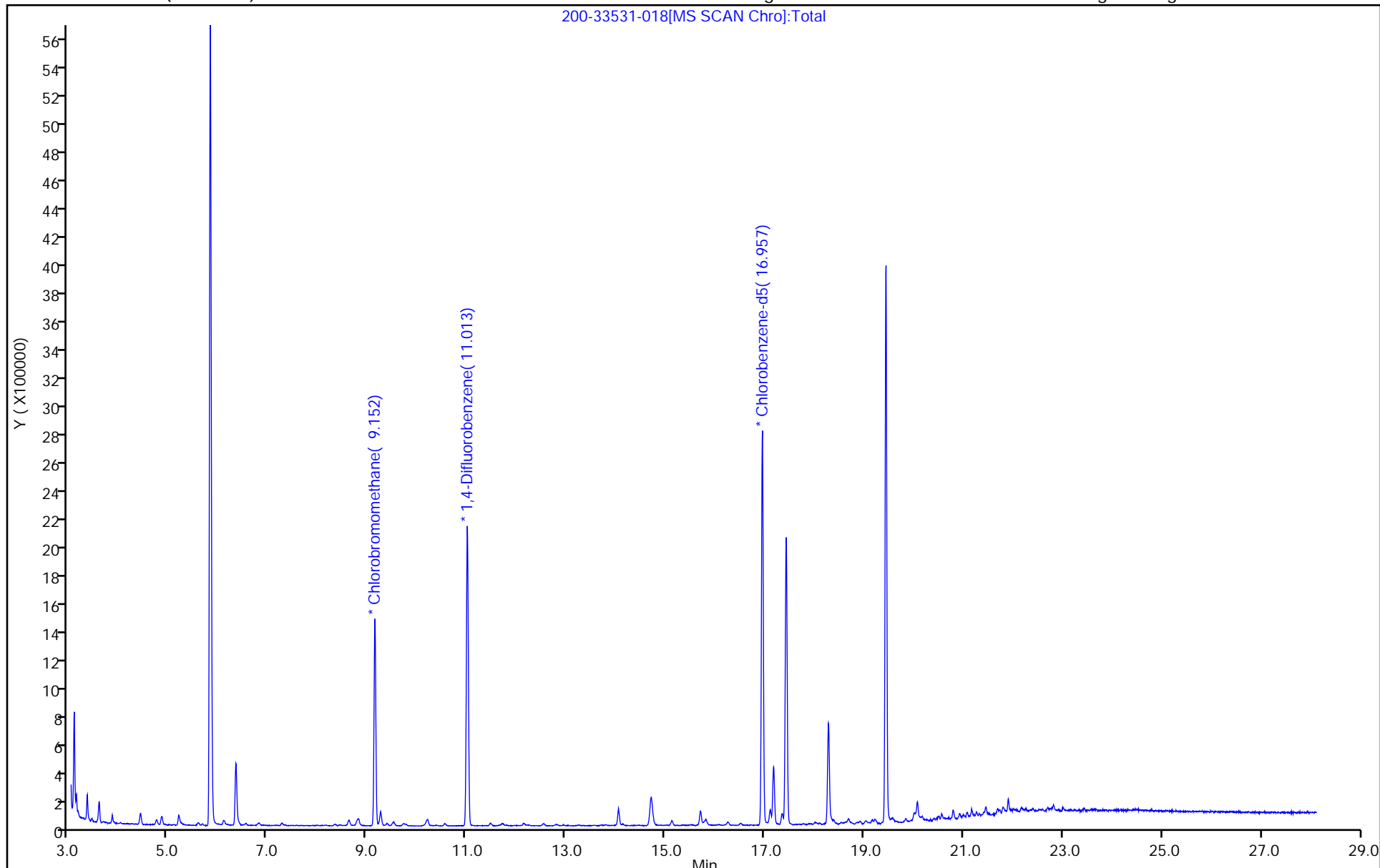
ALS Bottle#: 18

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

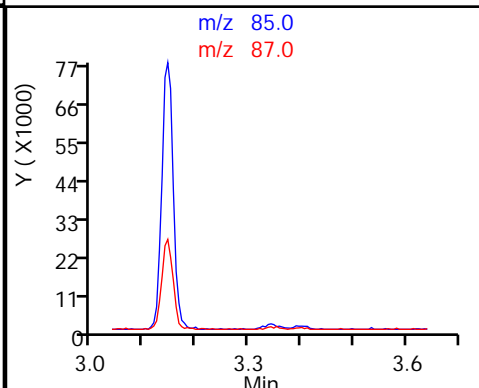
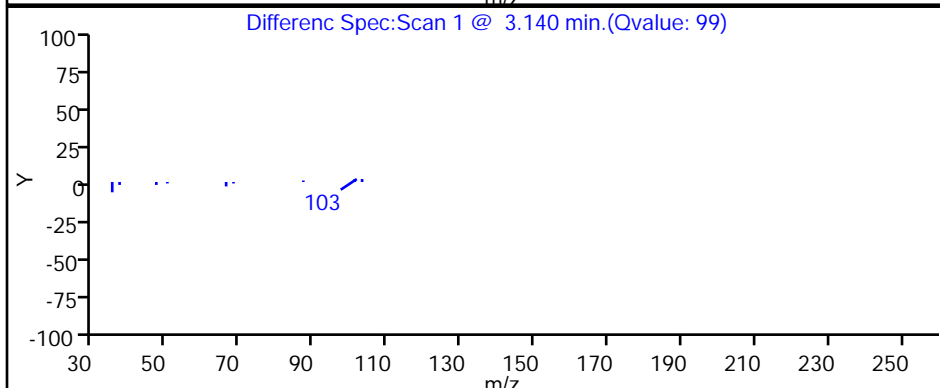
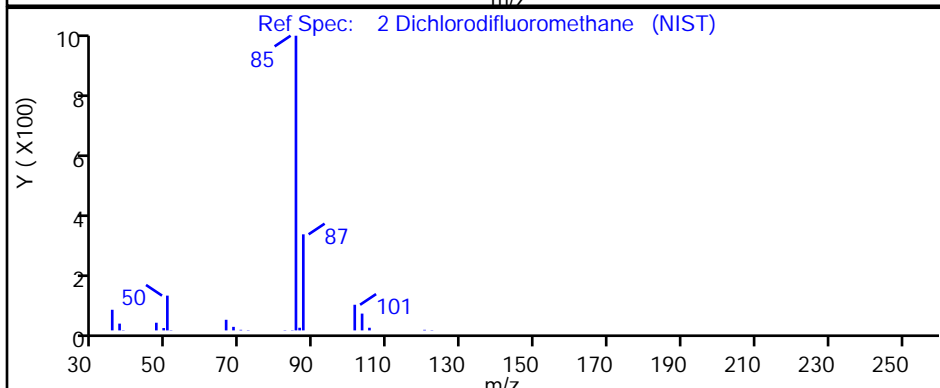
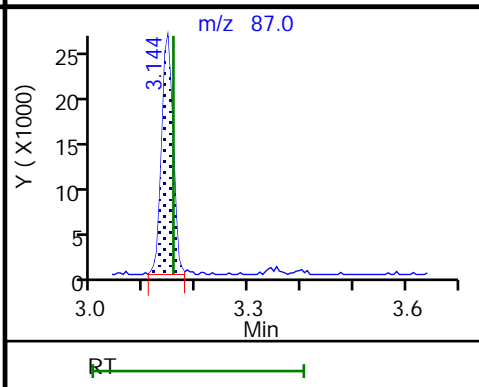
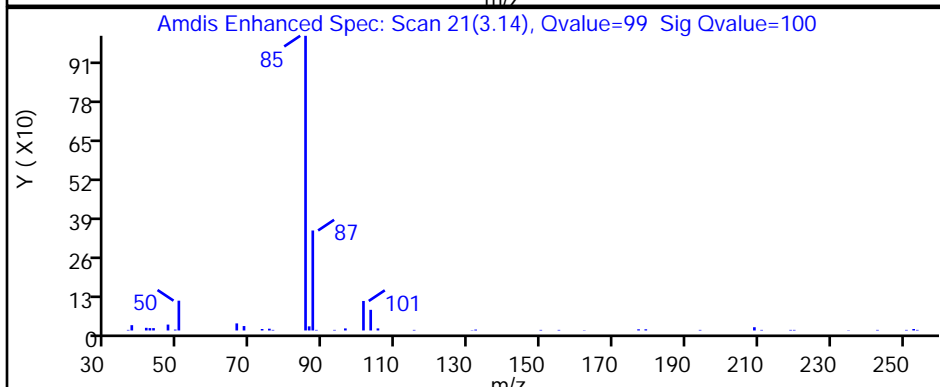
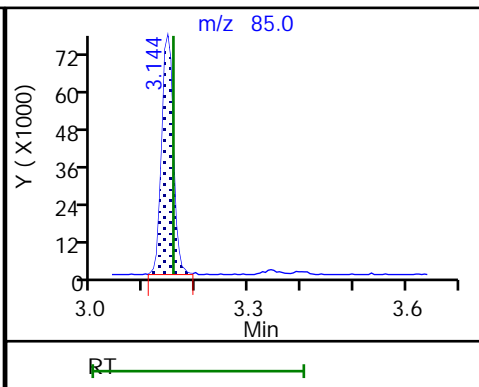
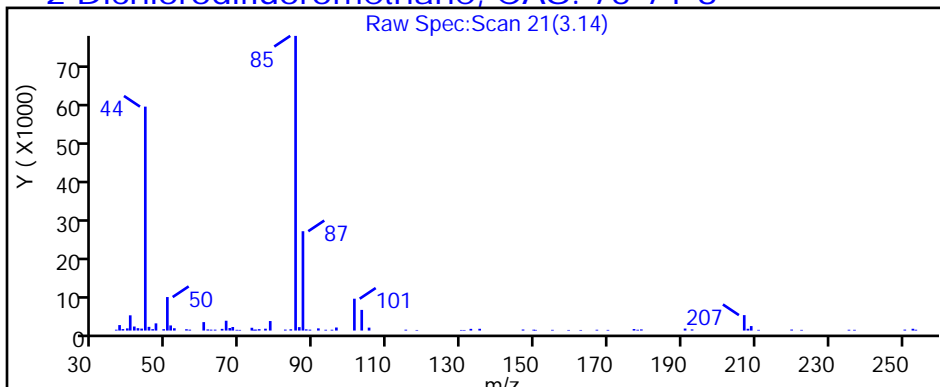
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

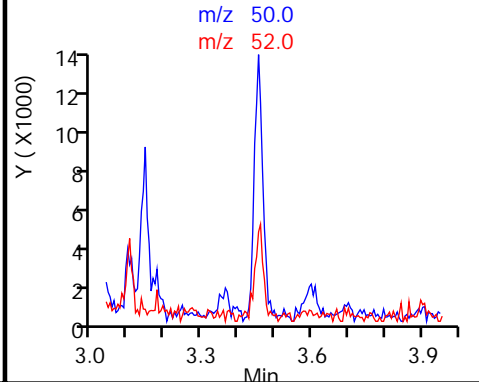
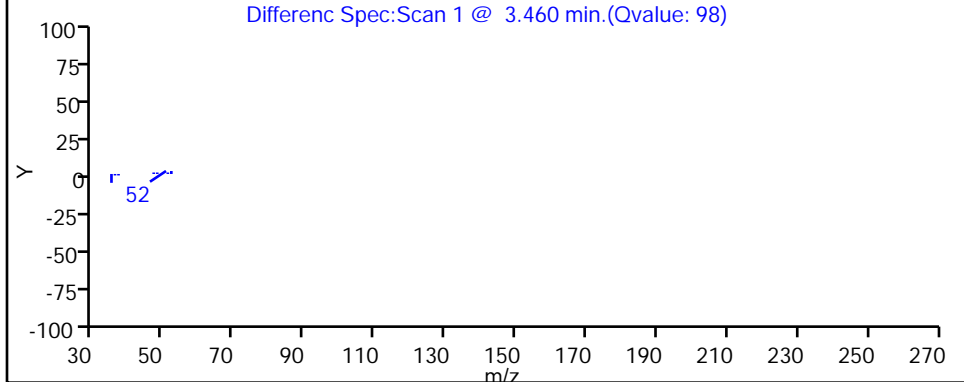
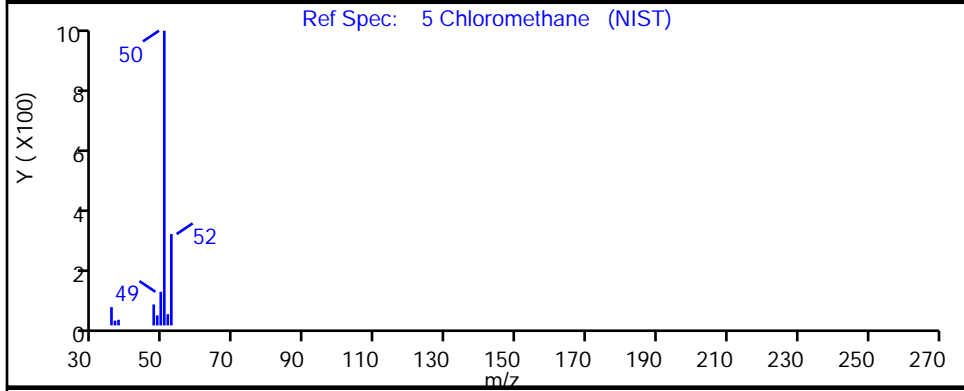
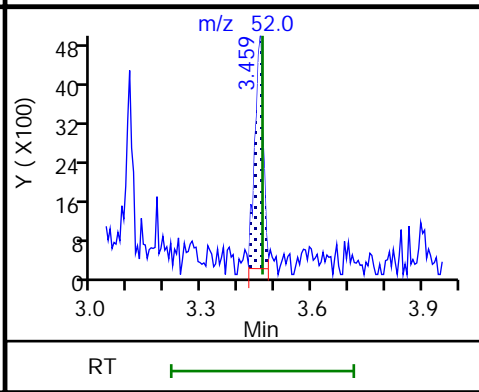
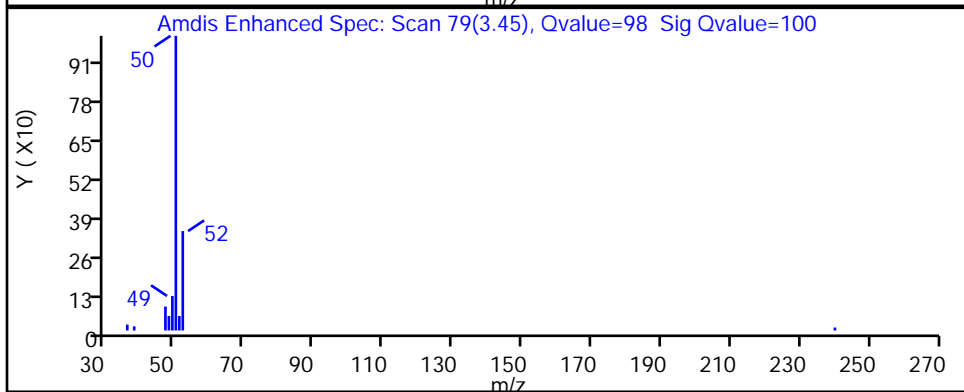
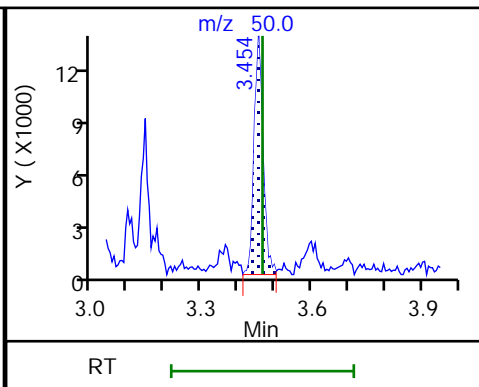
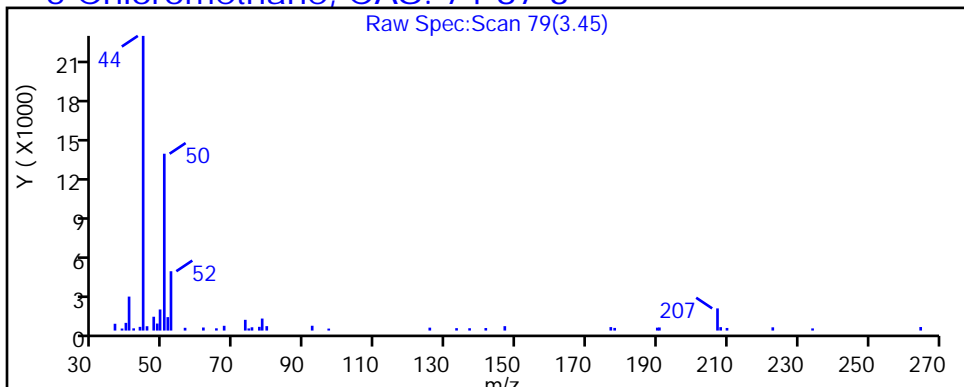
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

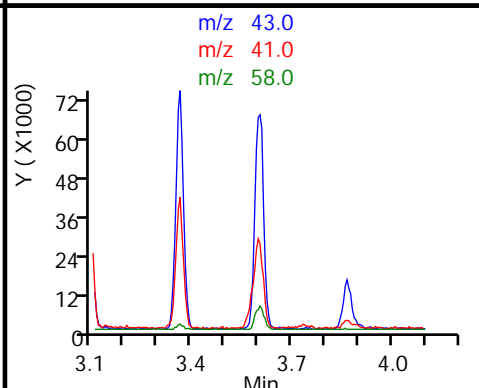
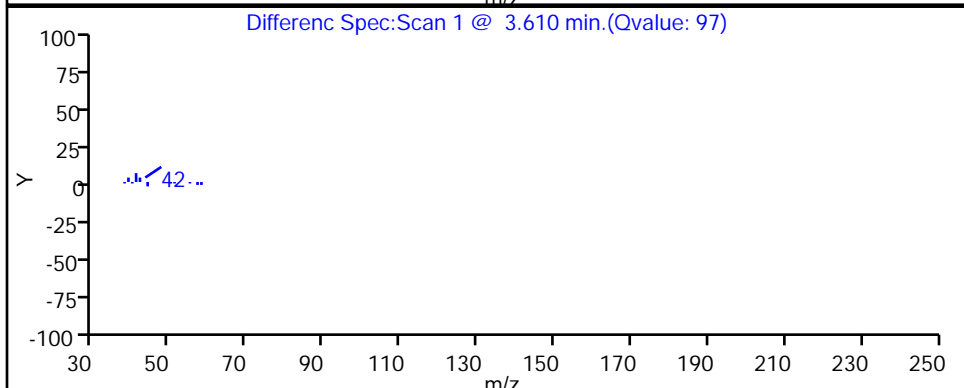
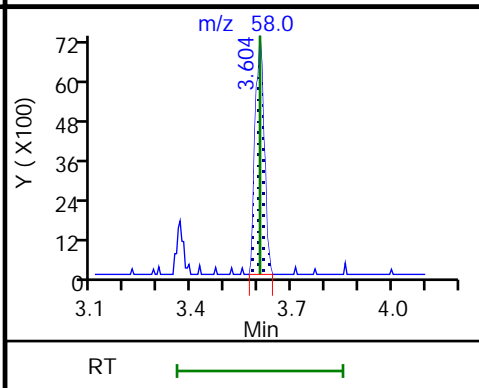
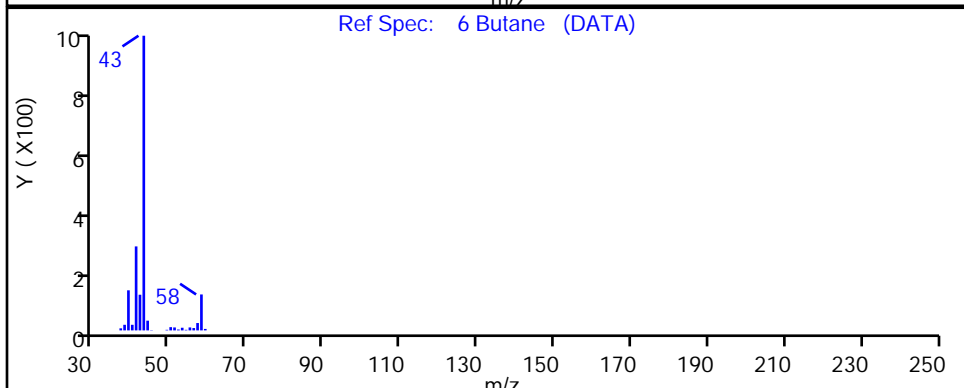
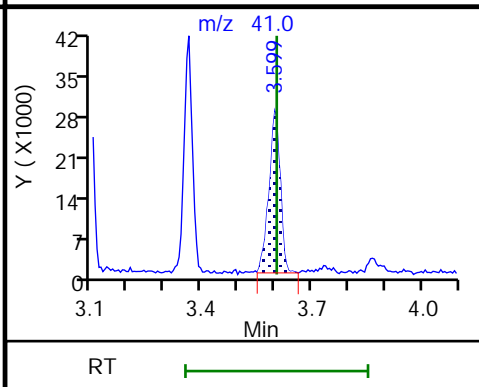
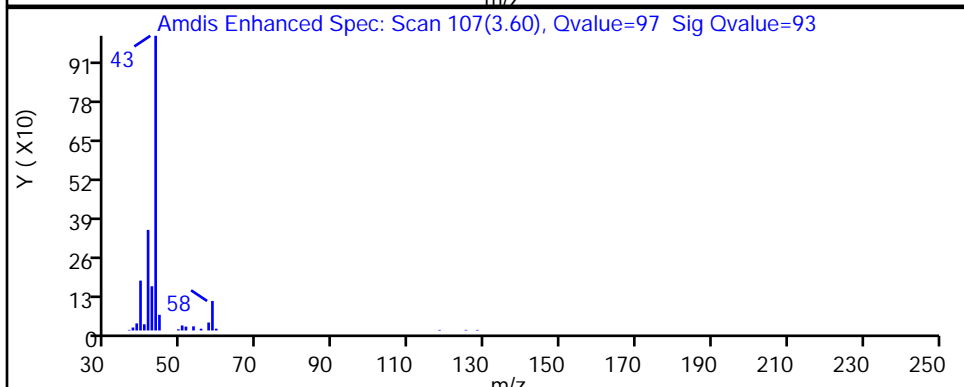
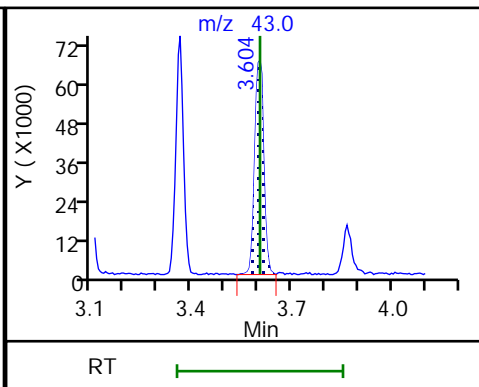
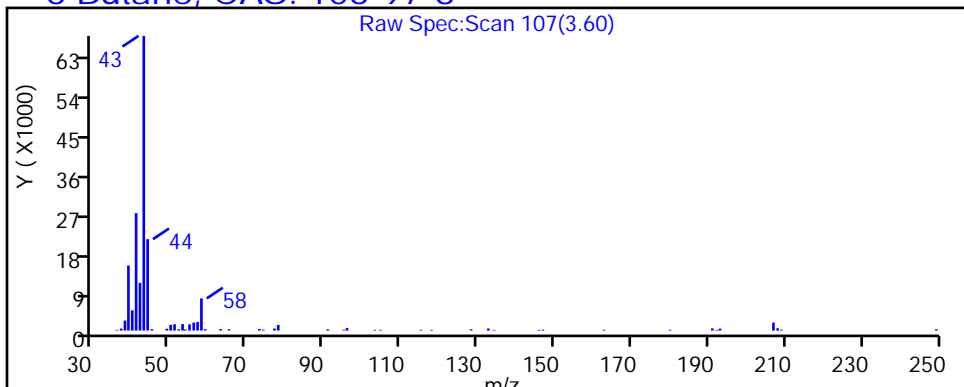
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

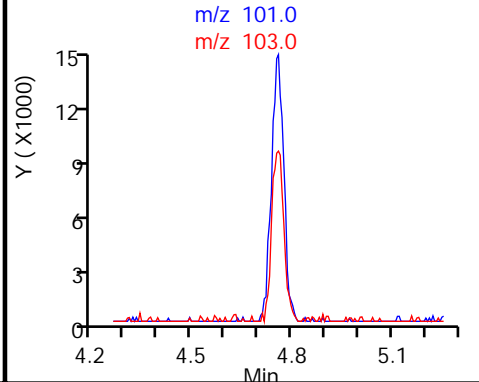
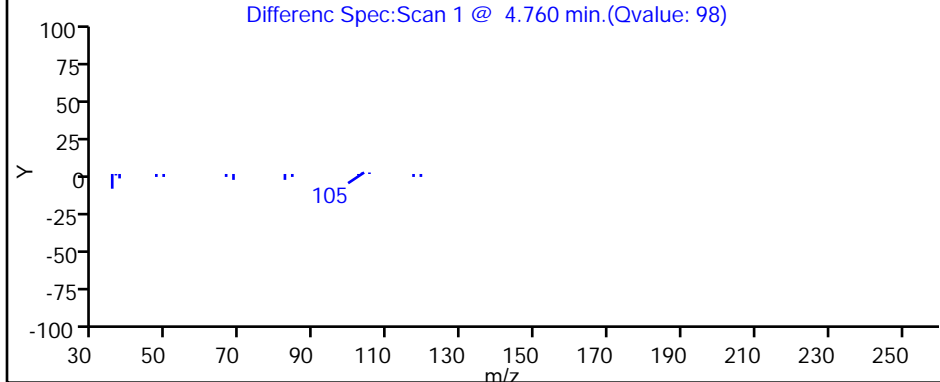
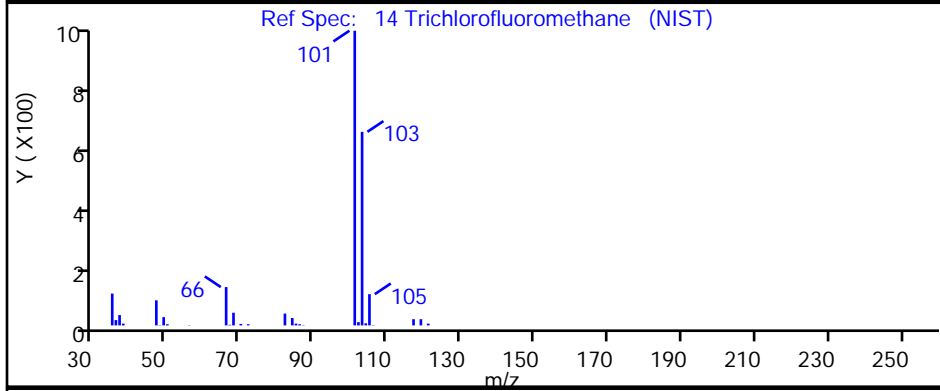
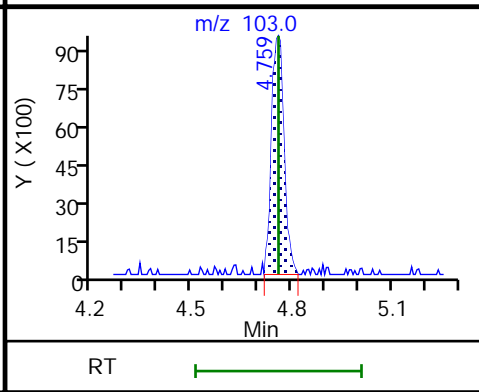
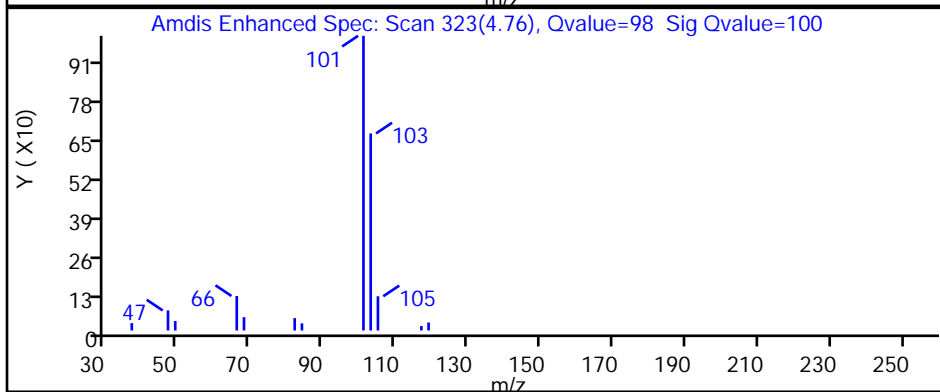
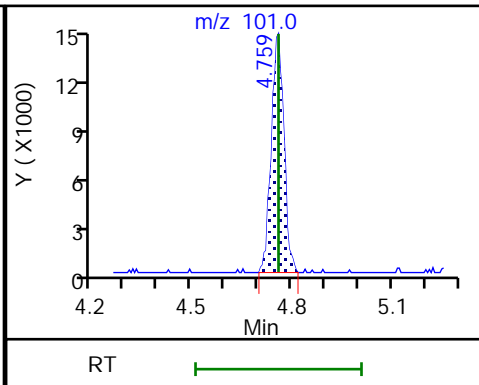
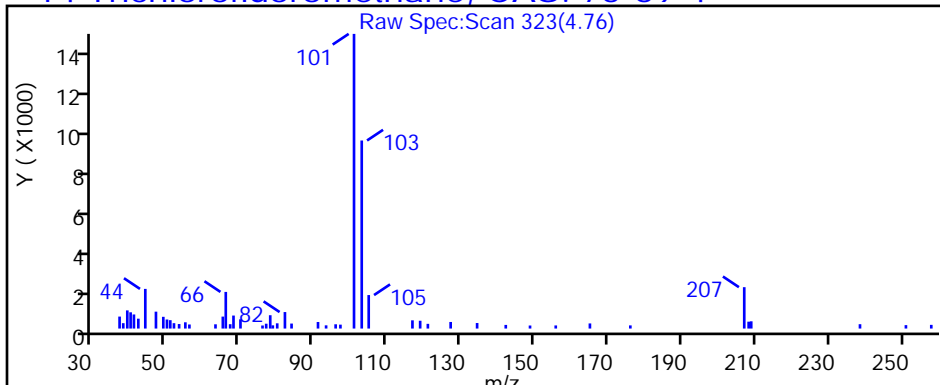
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

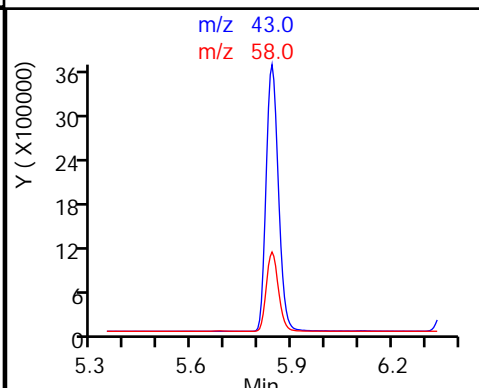
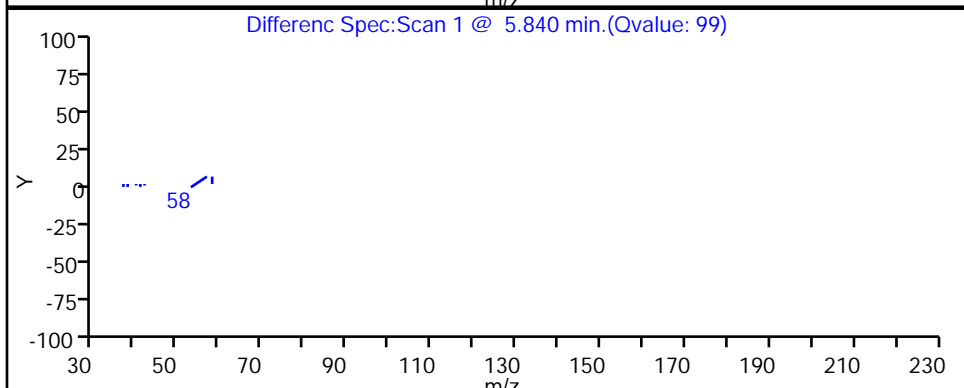
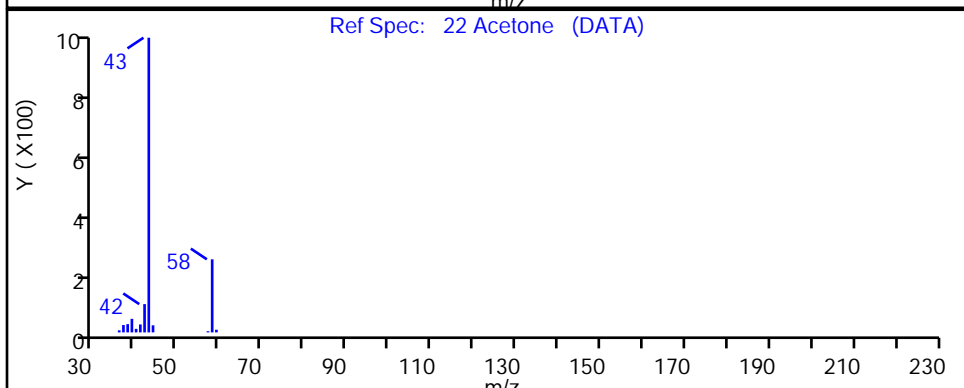
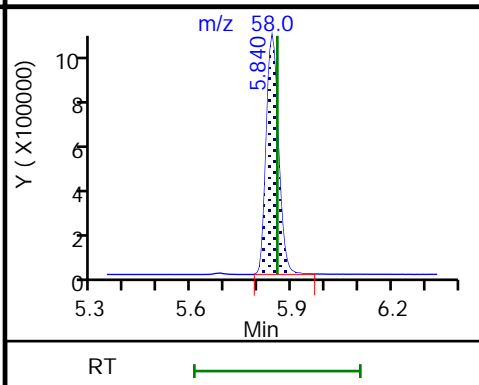
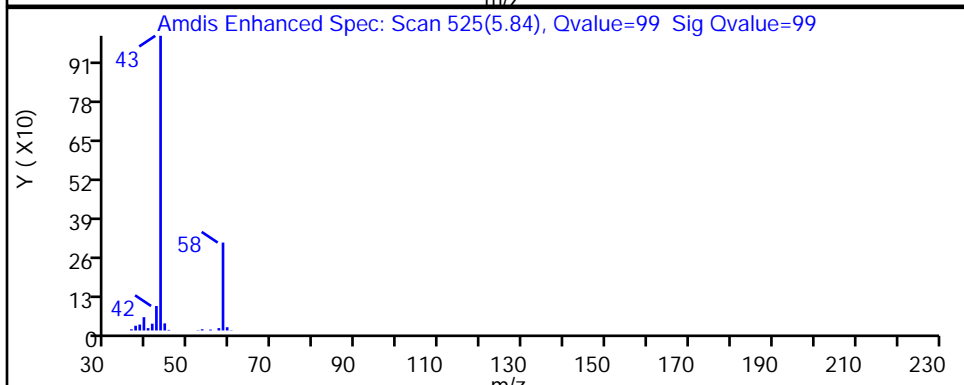
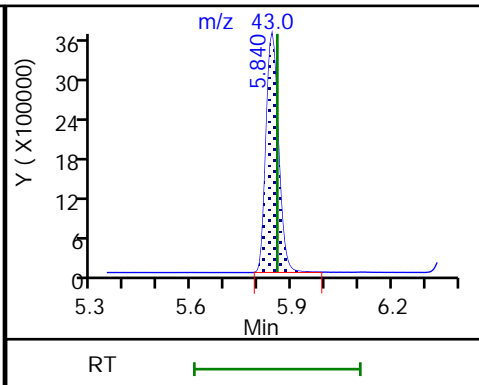
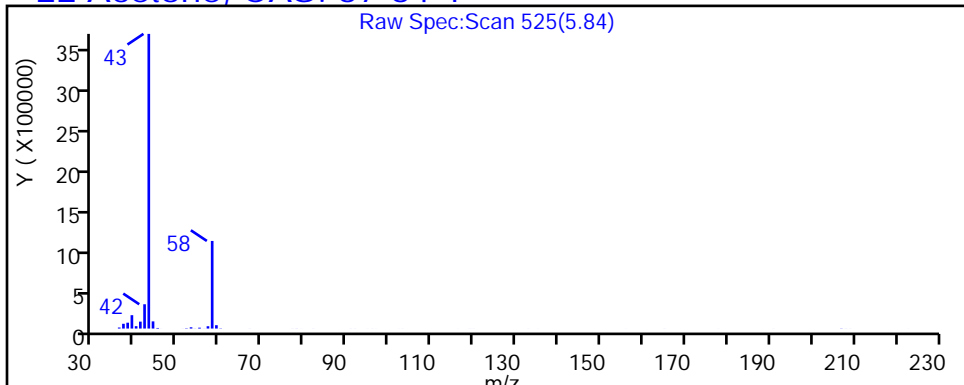
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

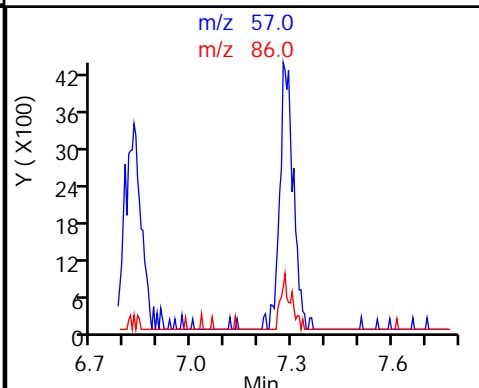
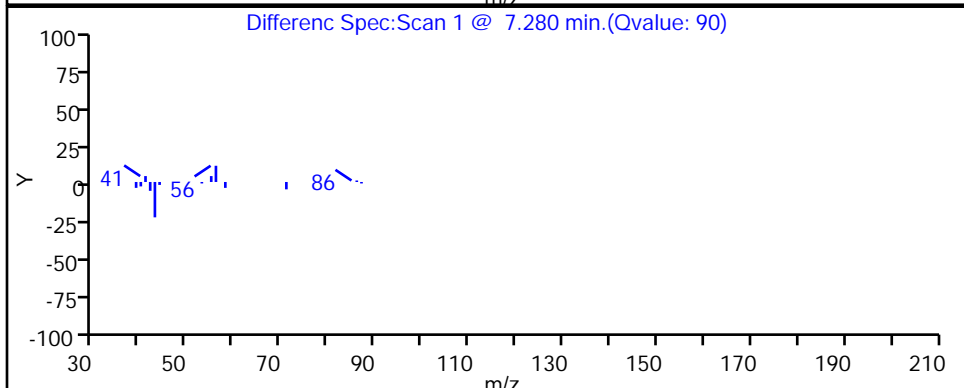
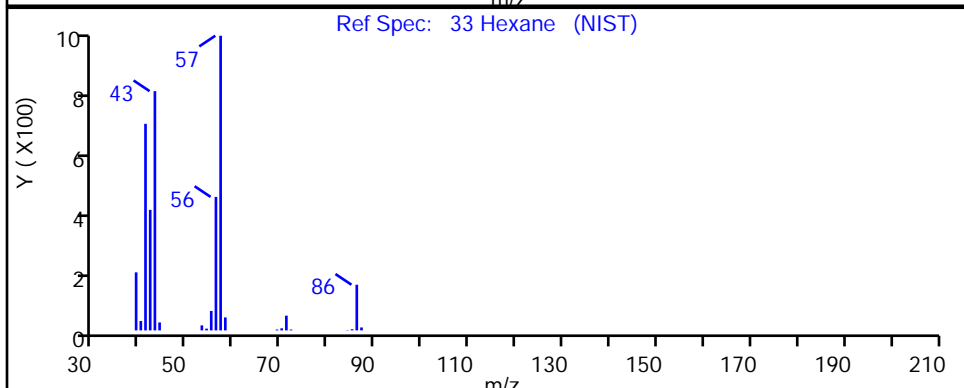
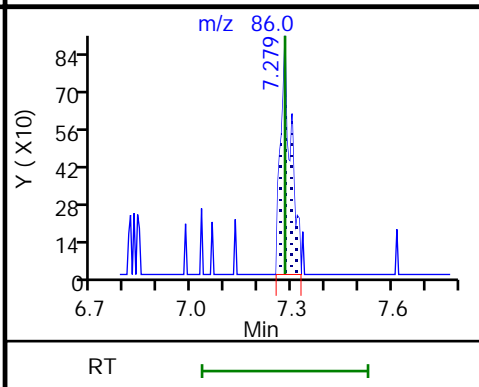
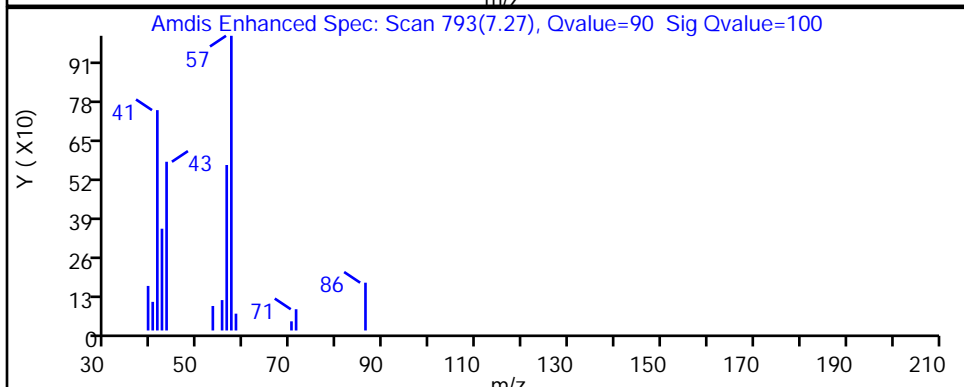
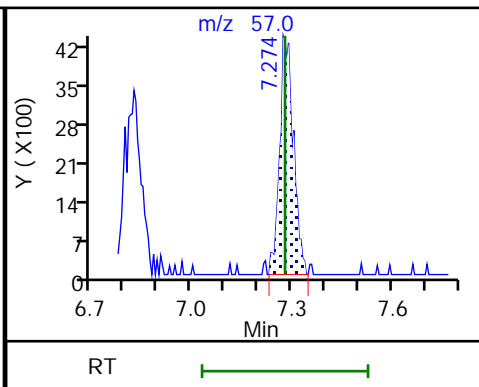
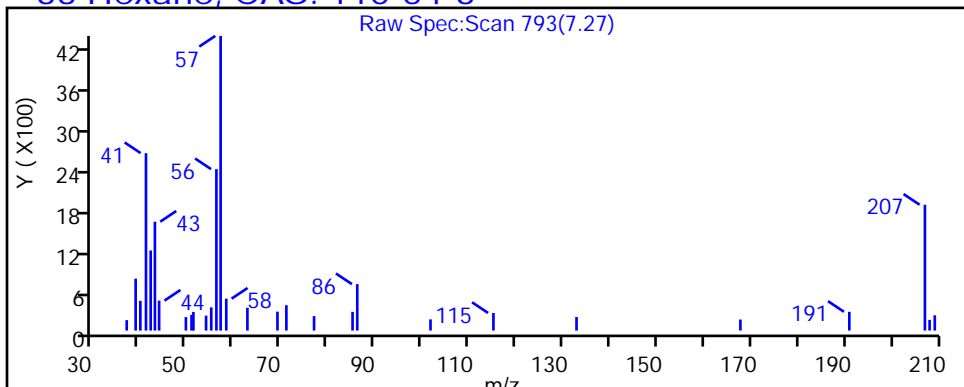
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

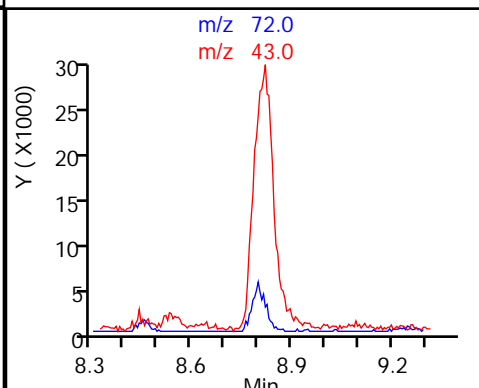
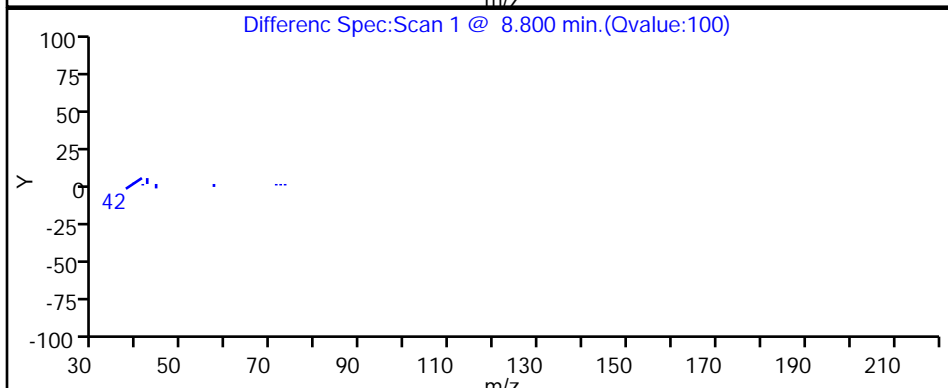
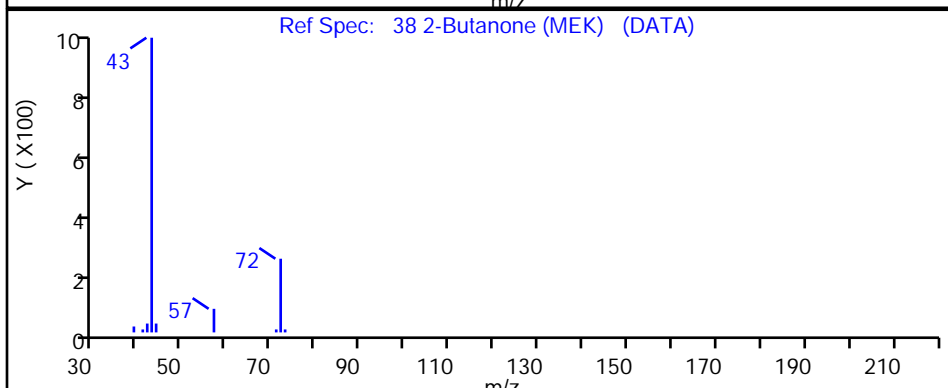
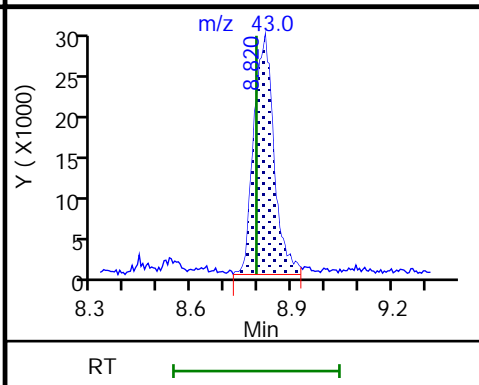
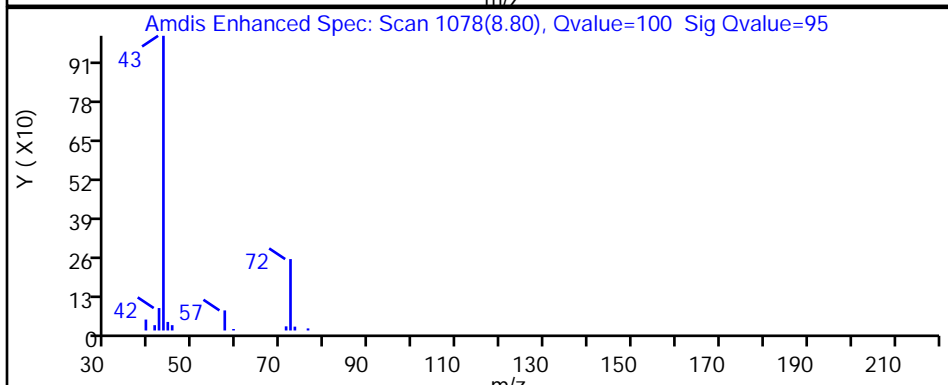
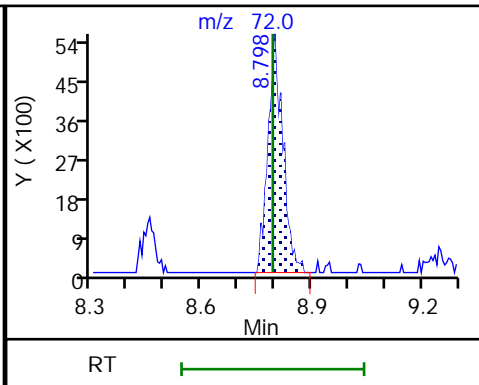
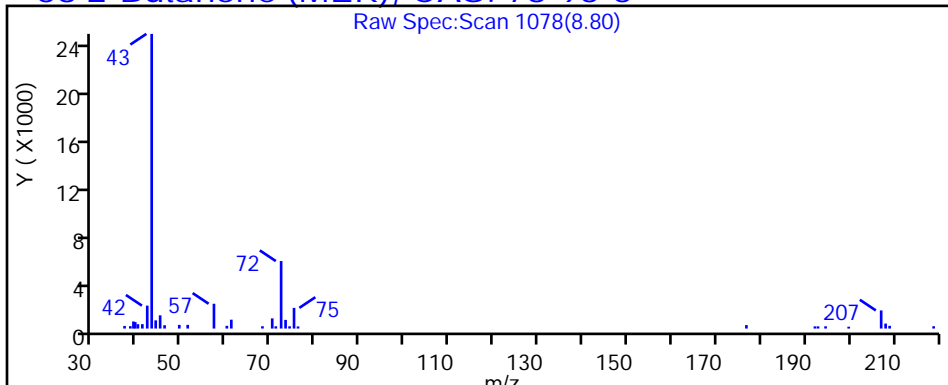
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

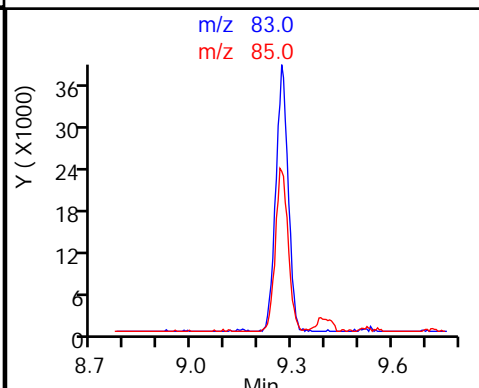
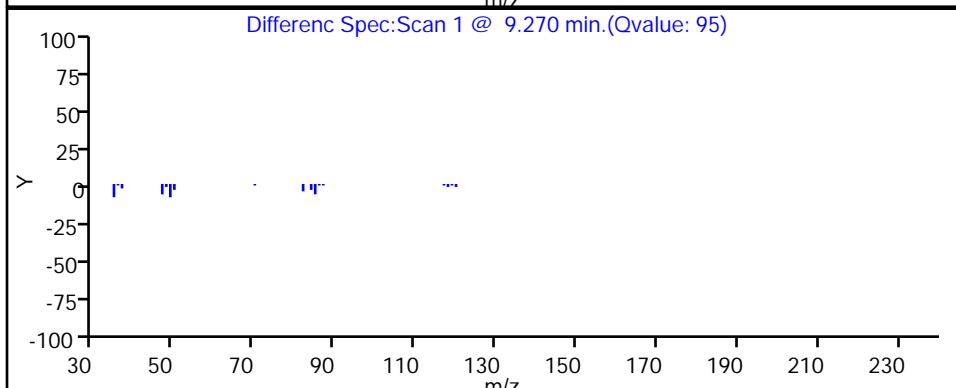
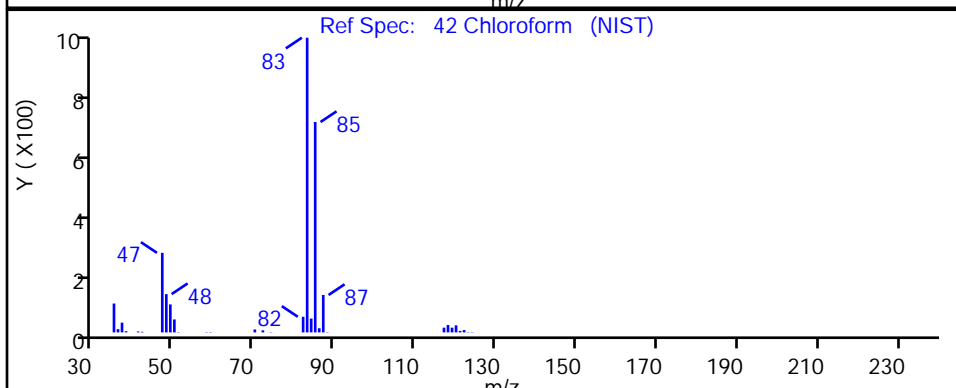
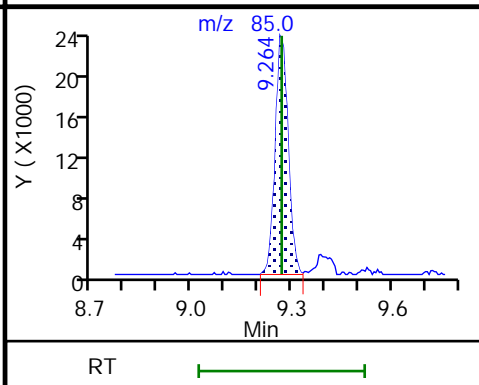
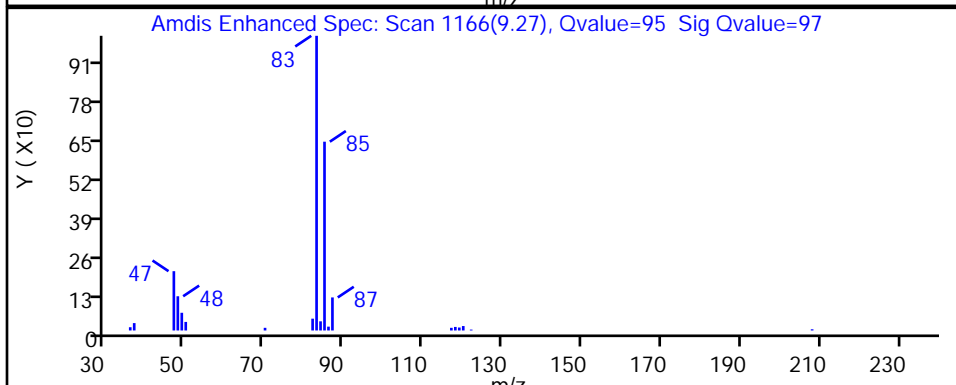
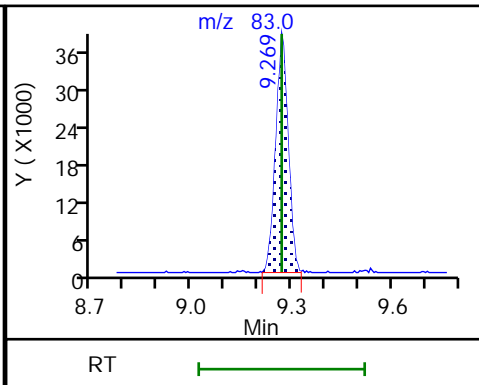
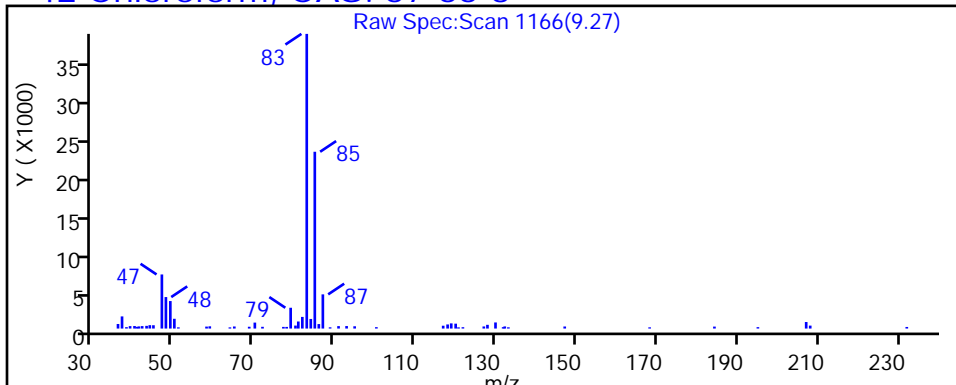
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

42 Chloroform, CAS: 67-66-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

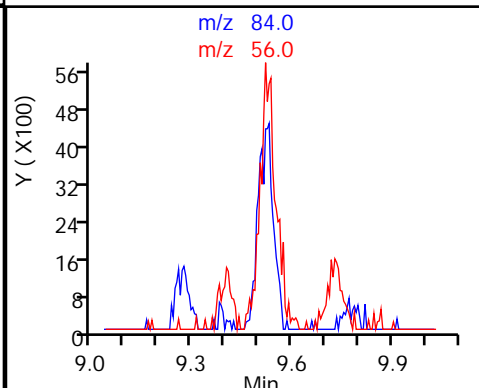
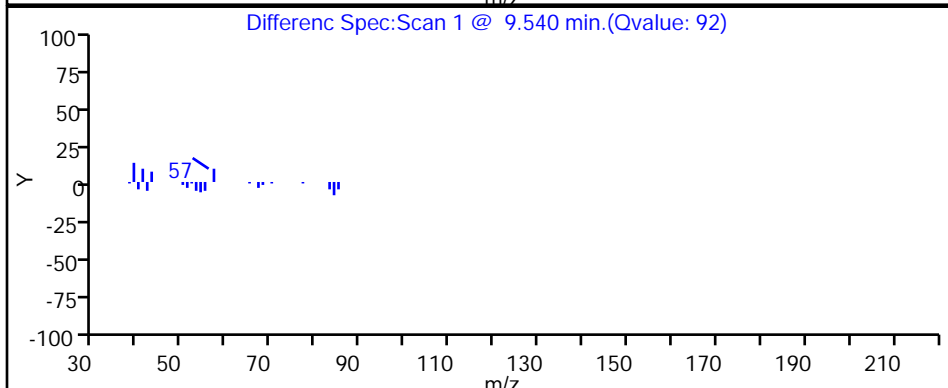
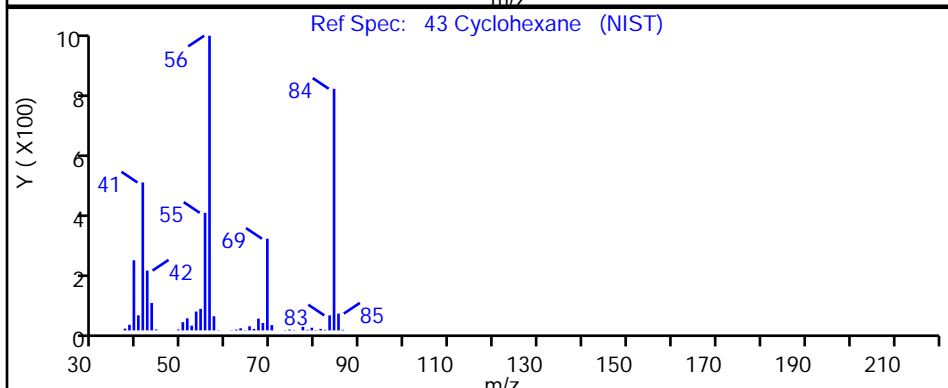
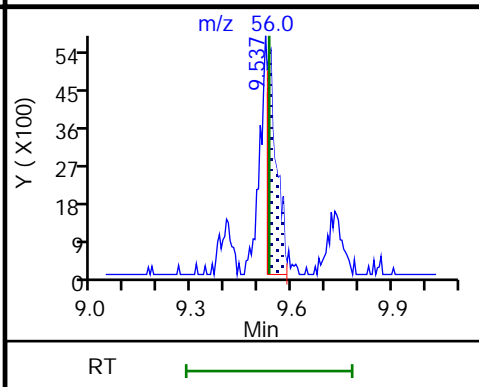
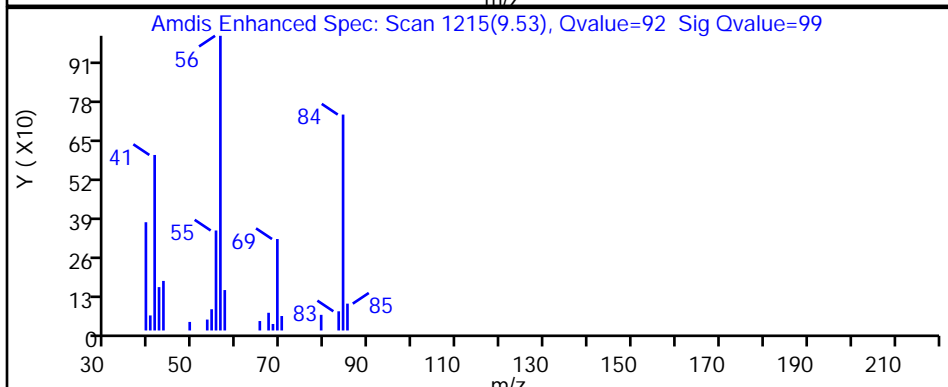
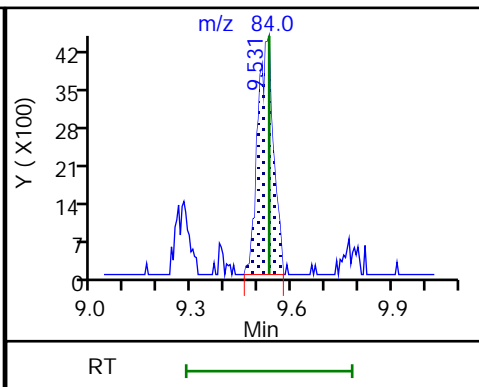
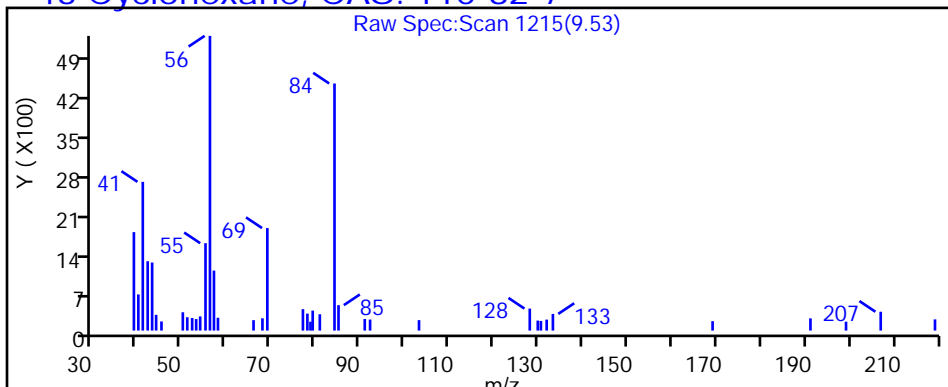
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

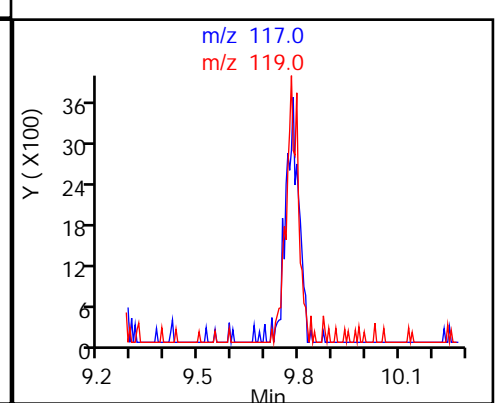
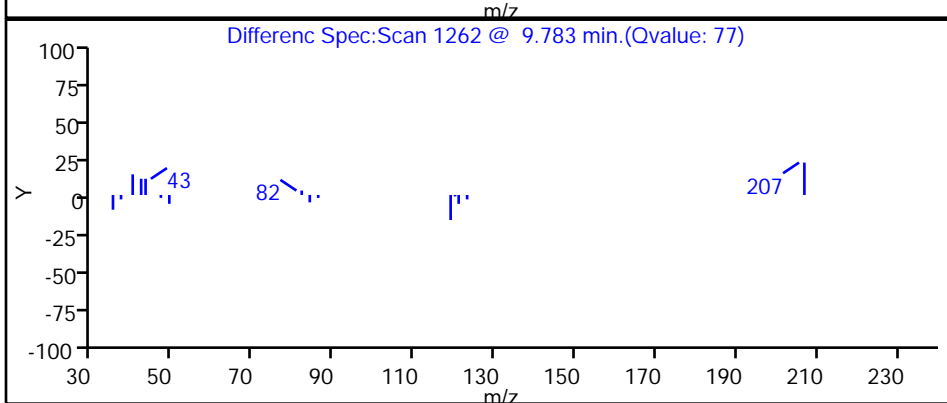
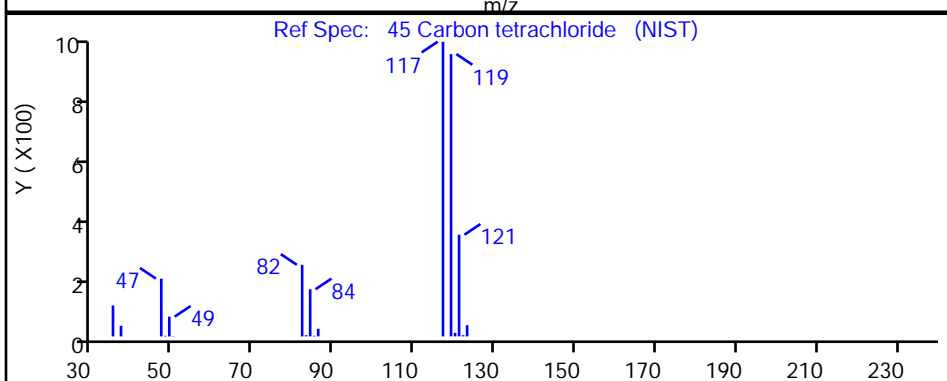
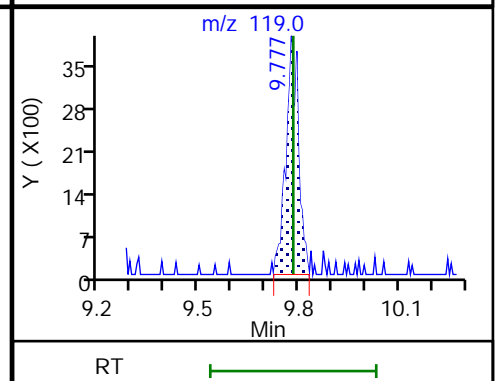
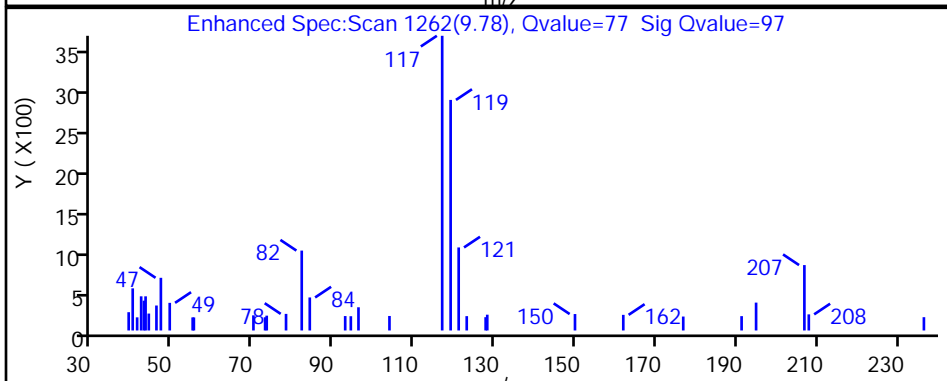
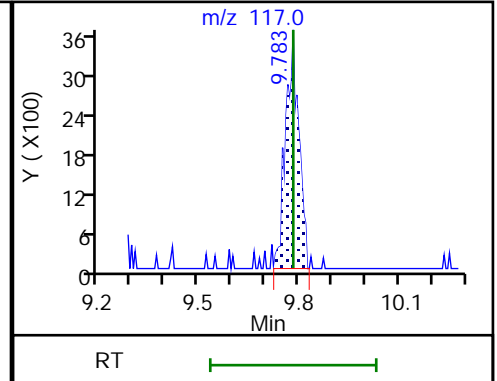
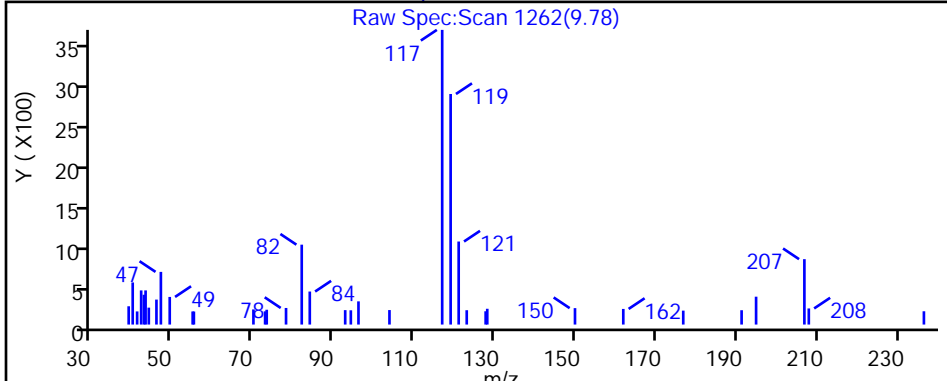
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

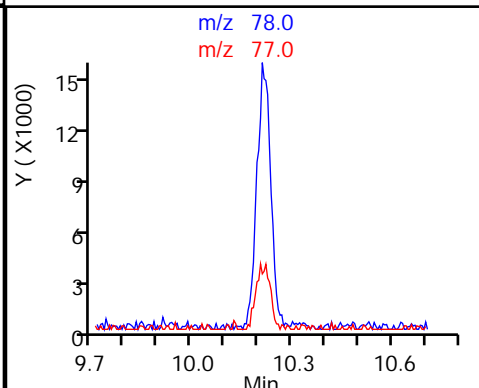
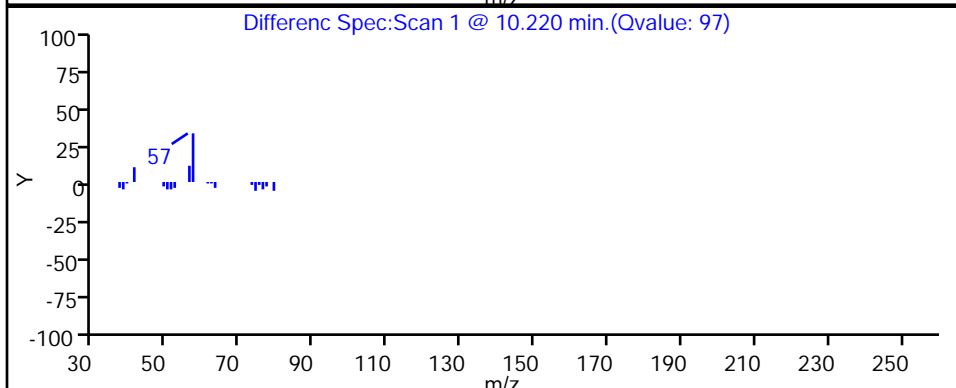
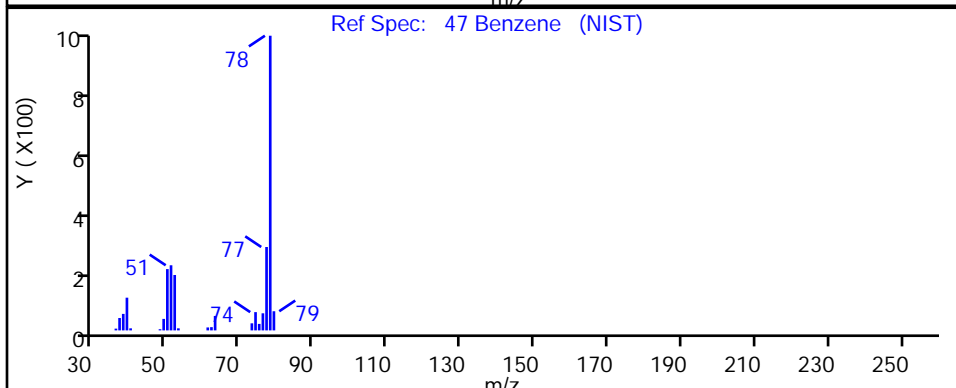
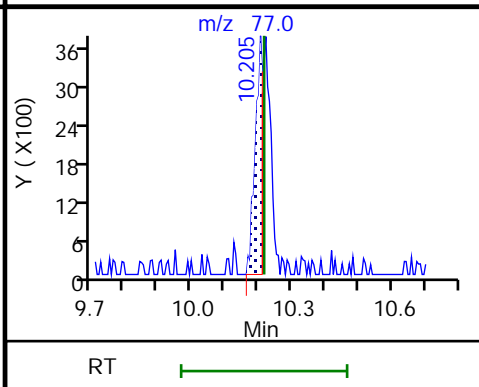
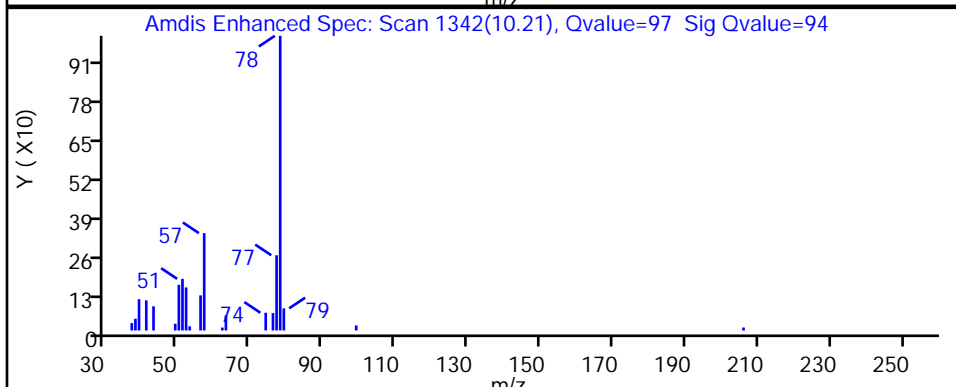
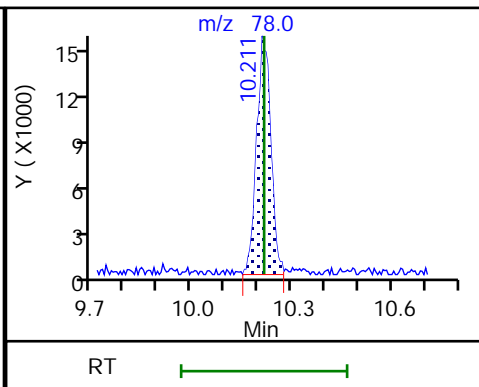
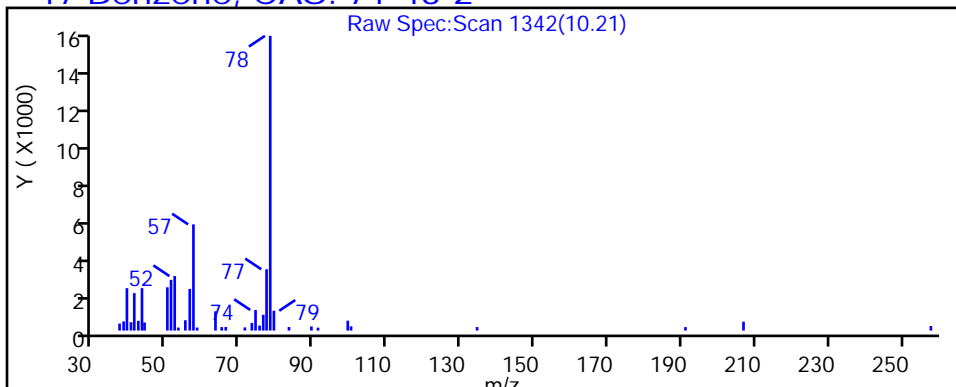
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

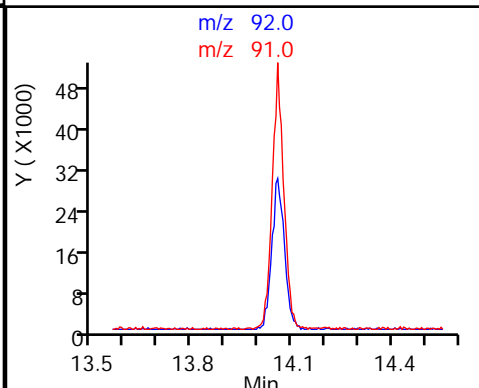
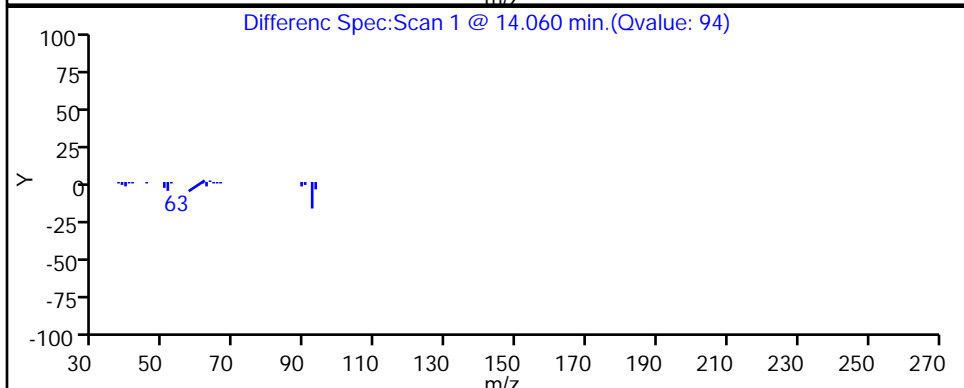
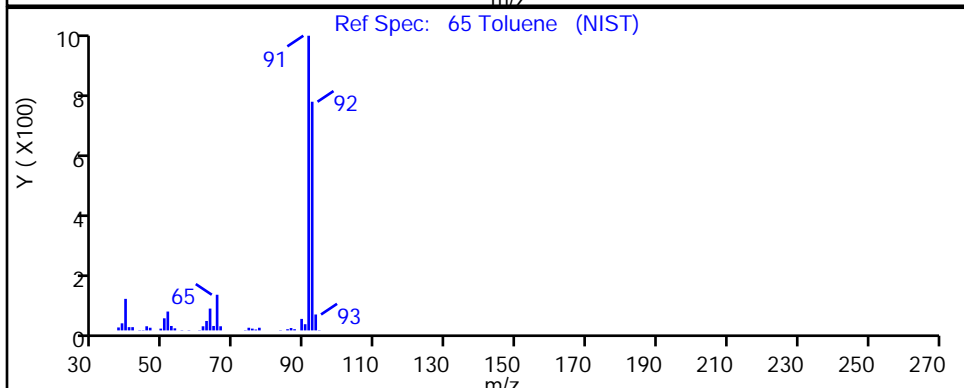
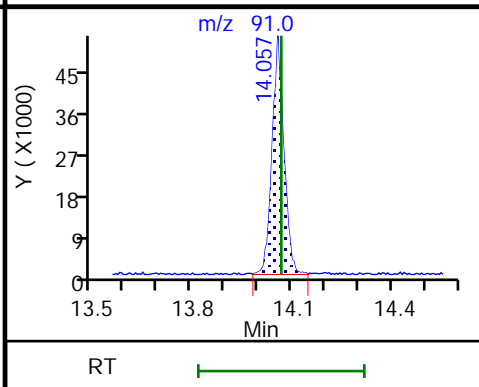
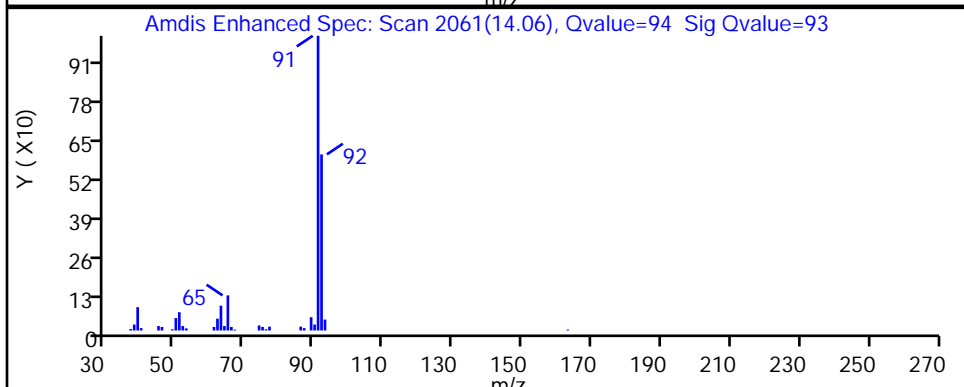
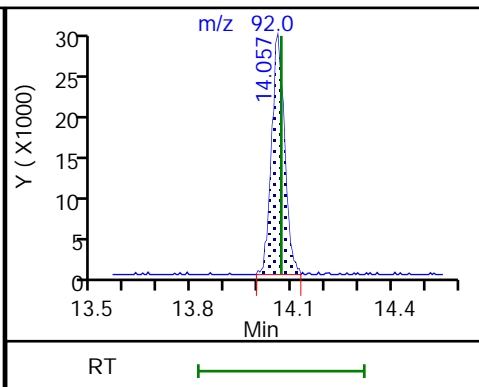
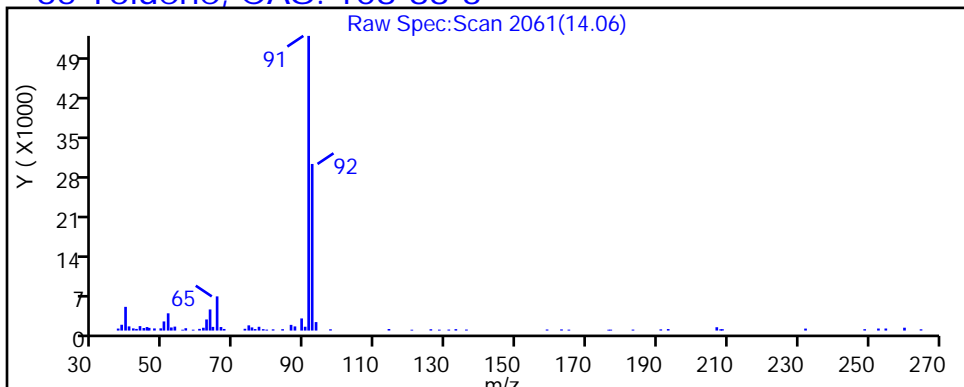
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

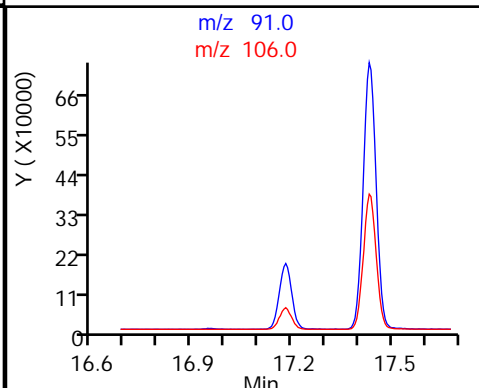
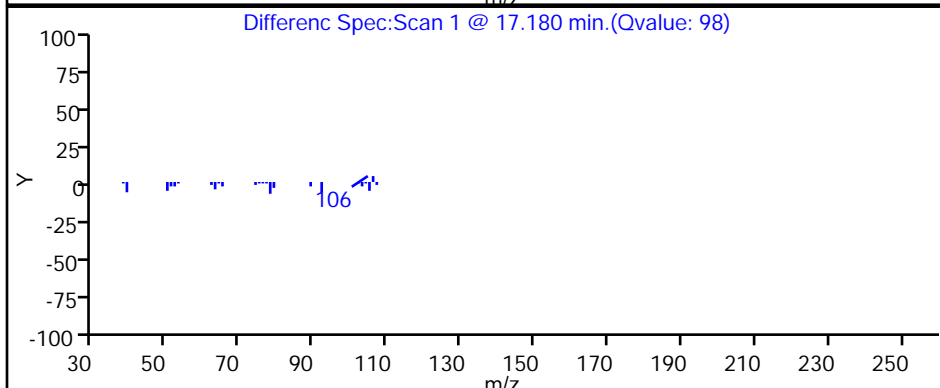
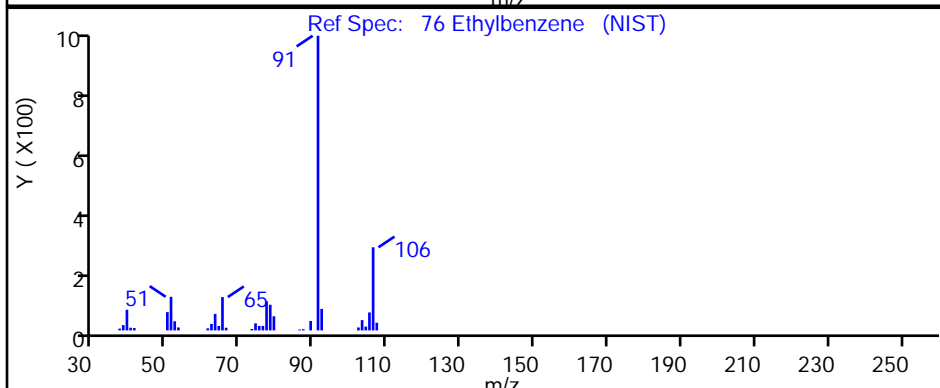
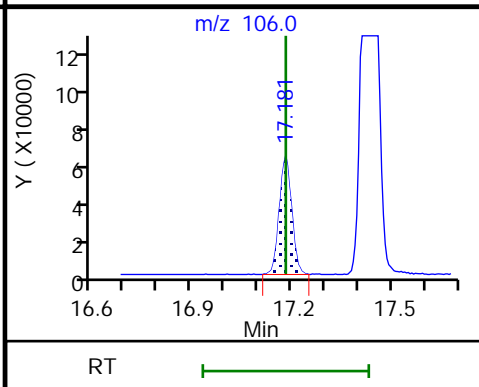
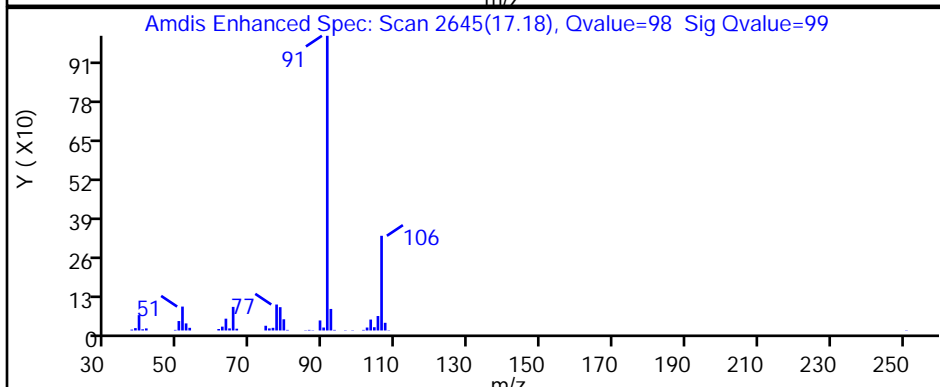
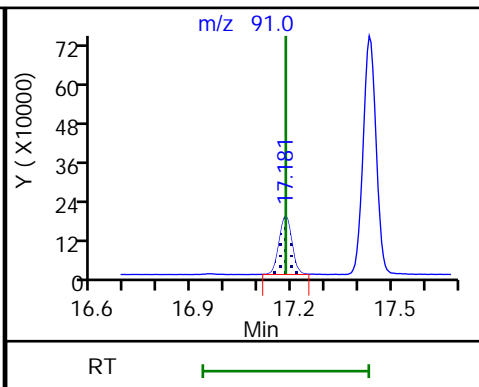
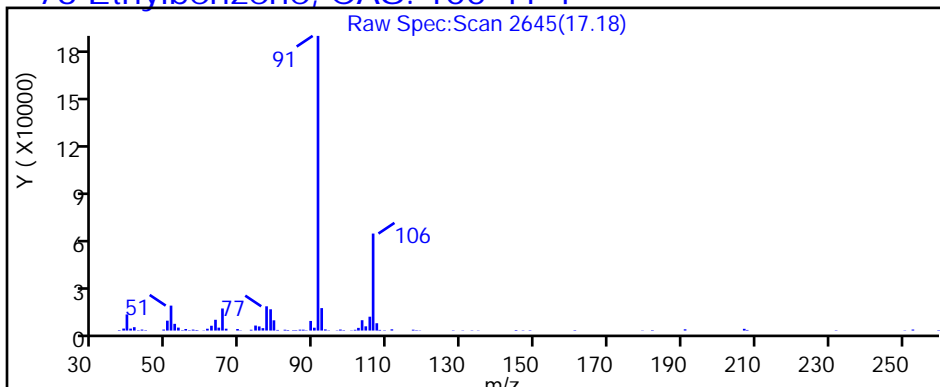
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

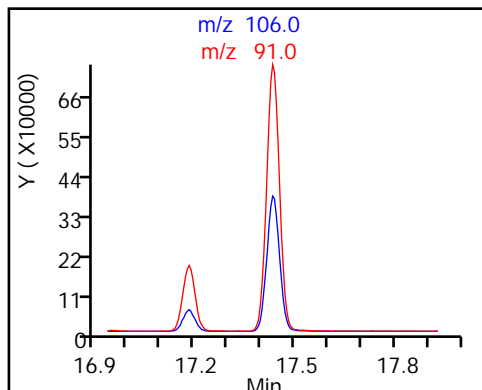
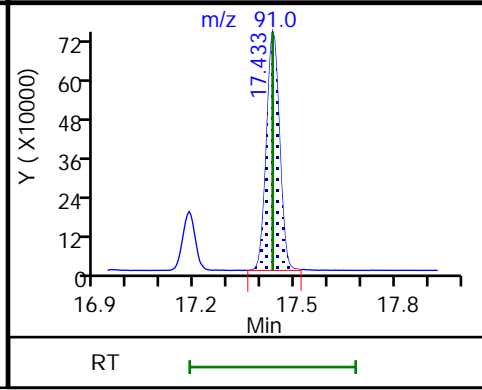
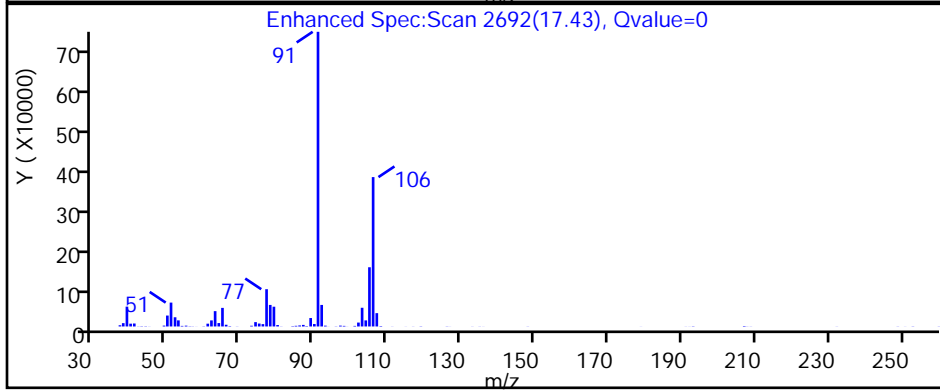
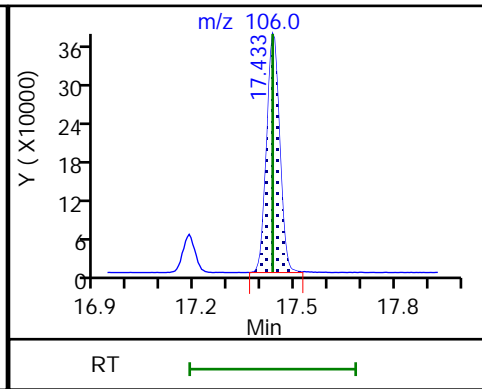
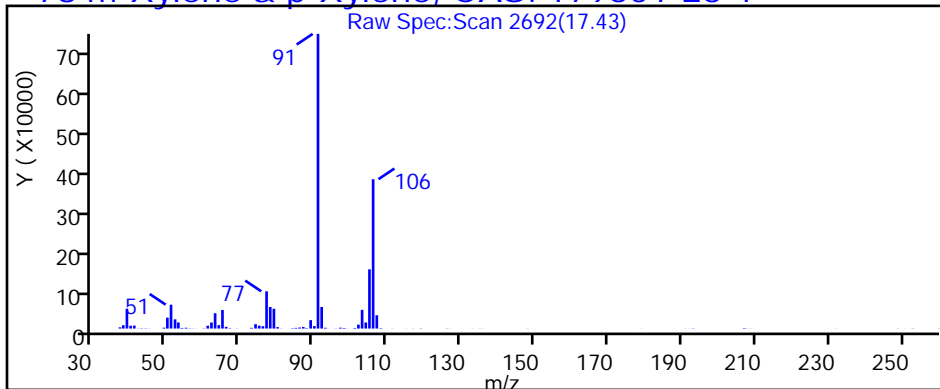
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

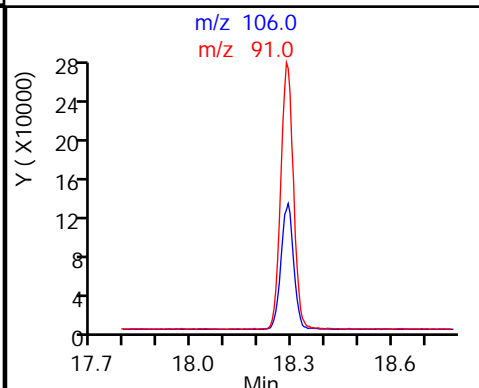
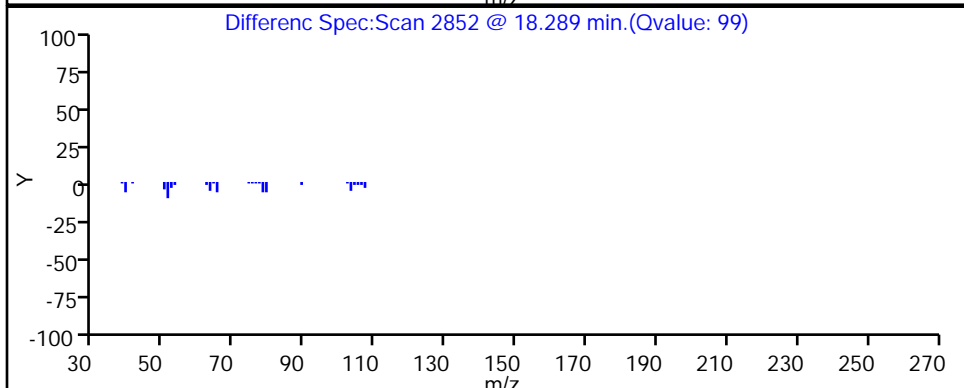
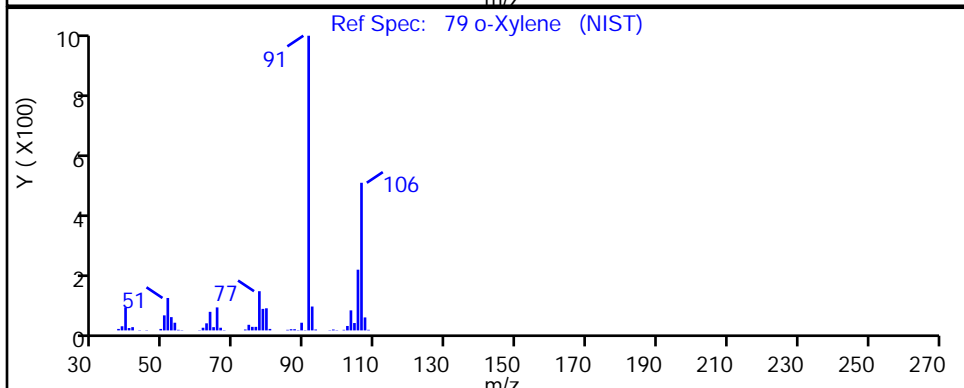
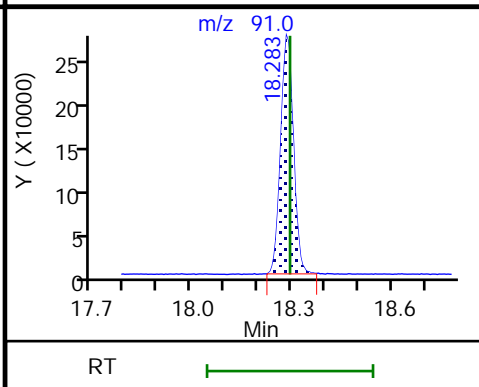
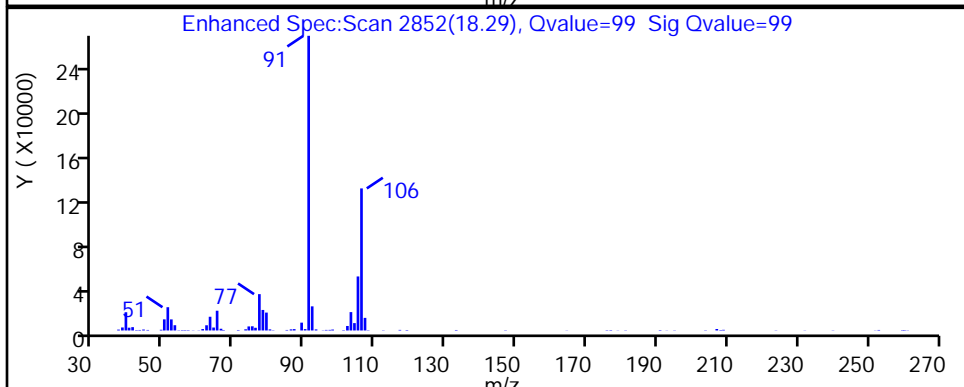
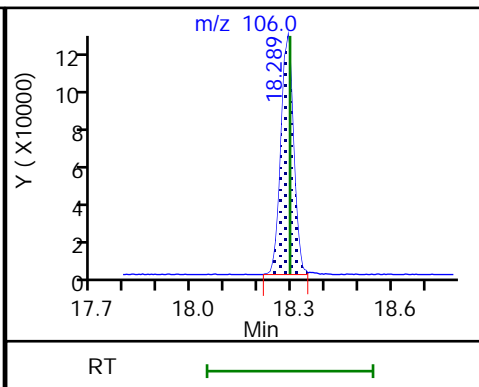
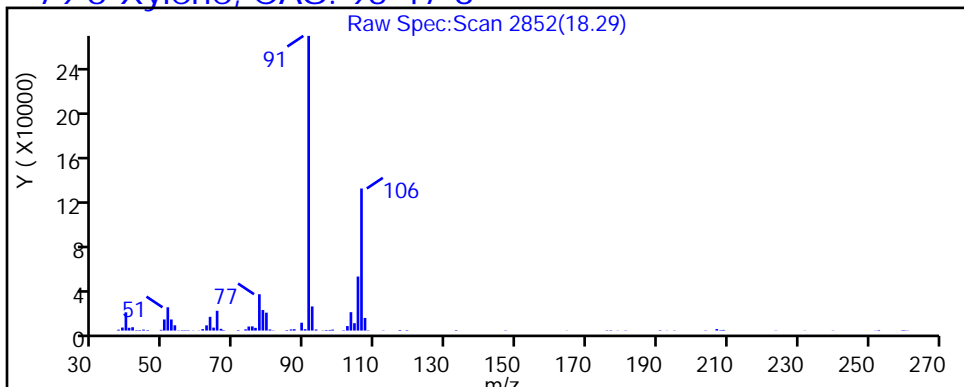
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

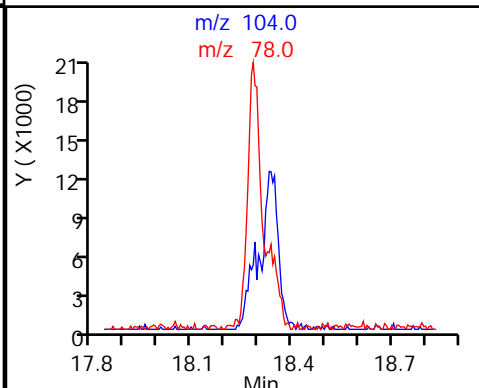
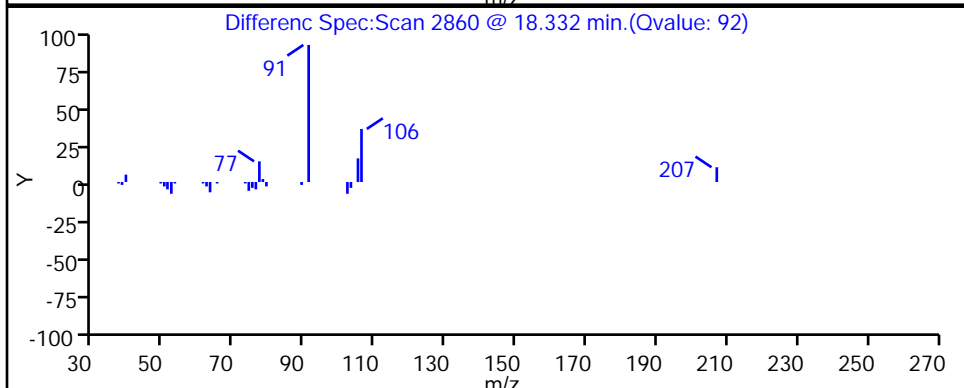
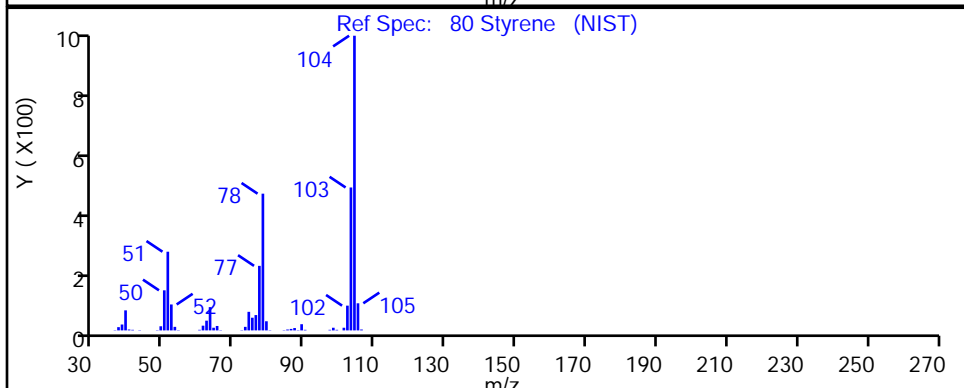
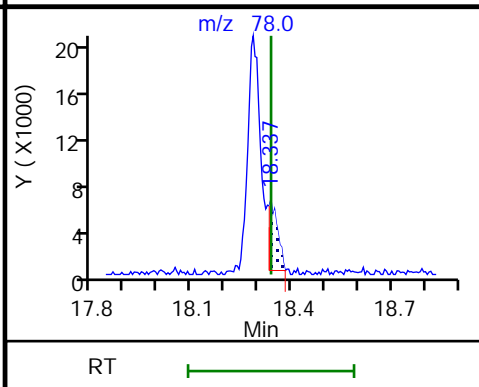
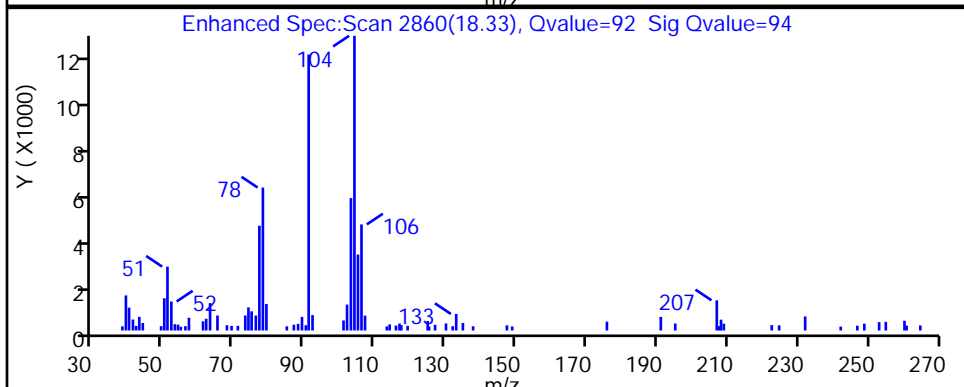
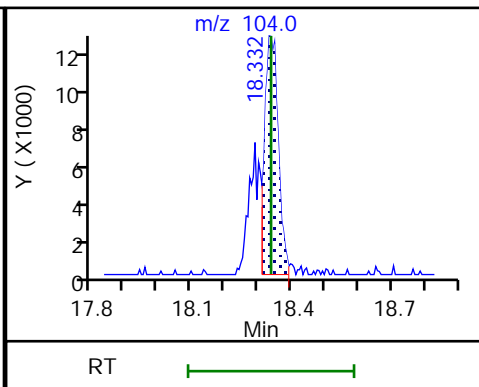
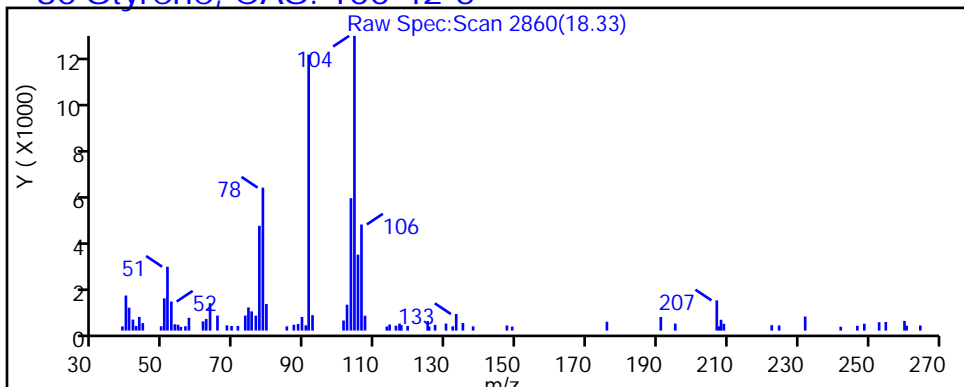
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D

Injection Date: 06-Dec-2018 04:21:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ert

ALS Bottle#: 18

Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

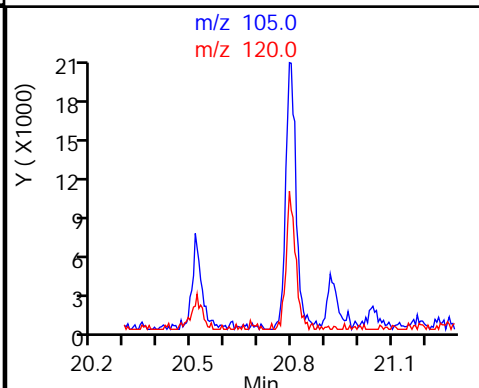
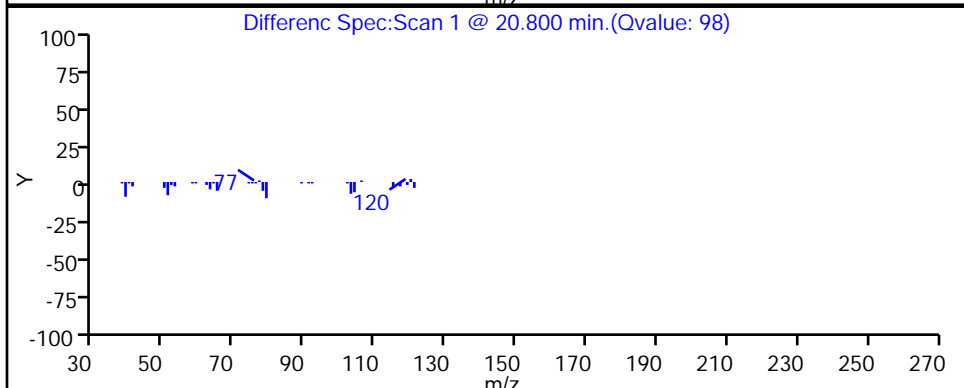
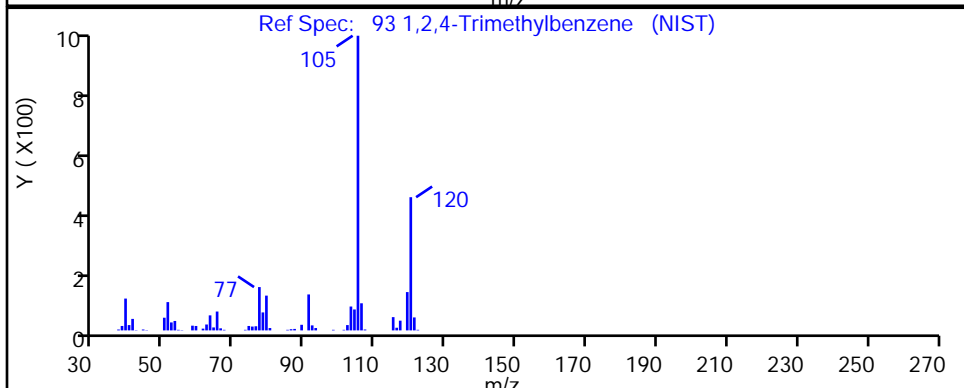
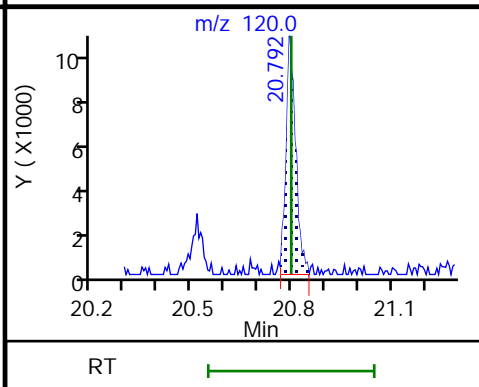
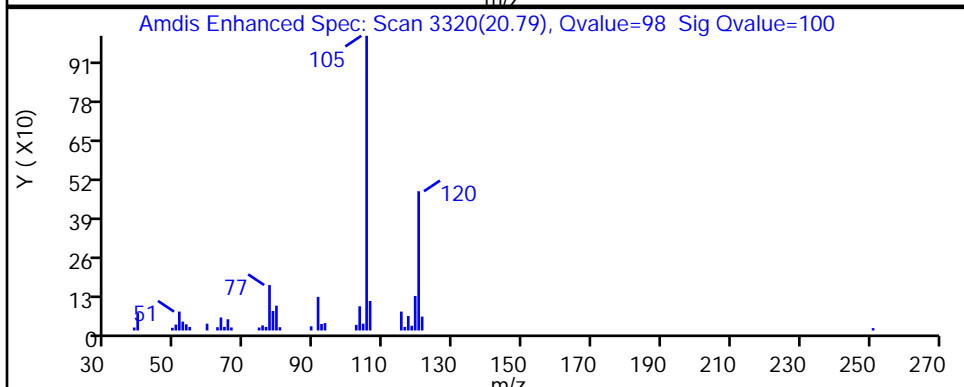
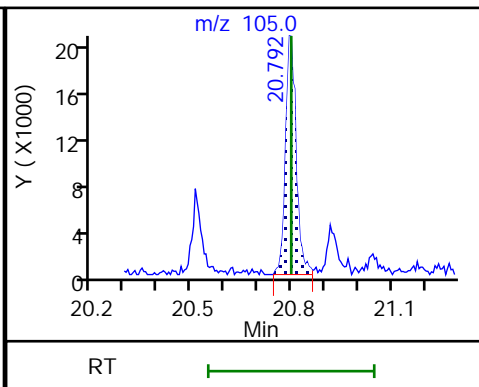
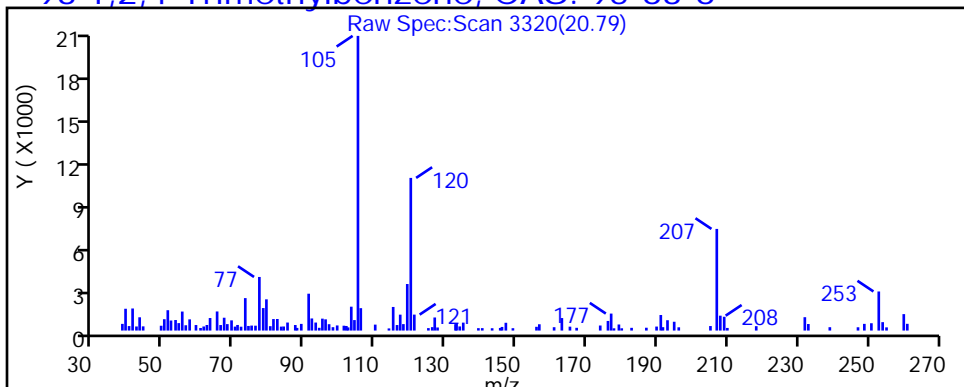
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

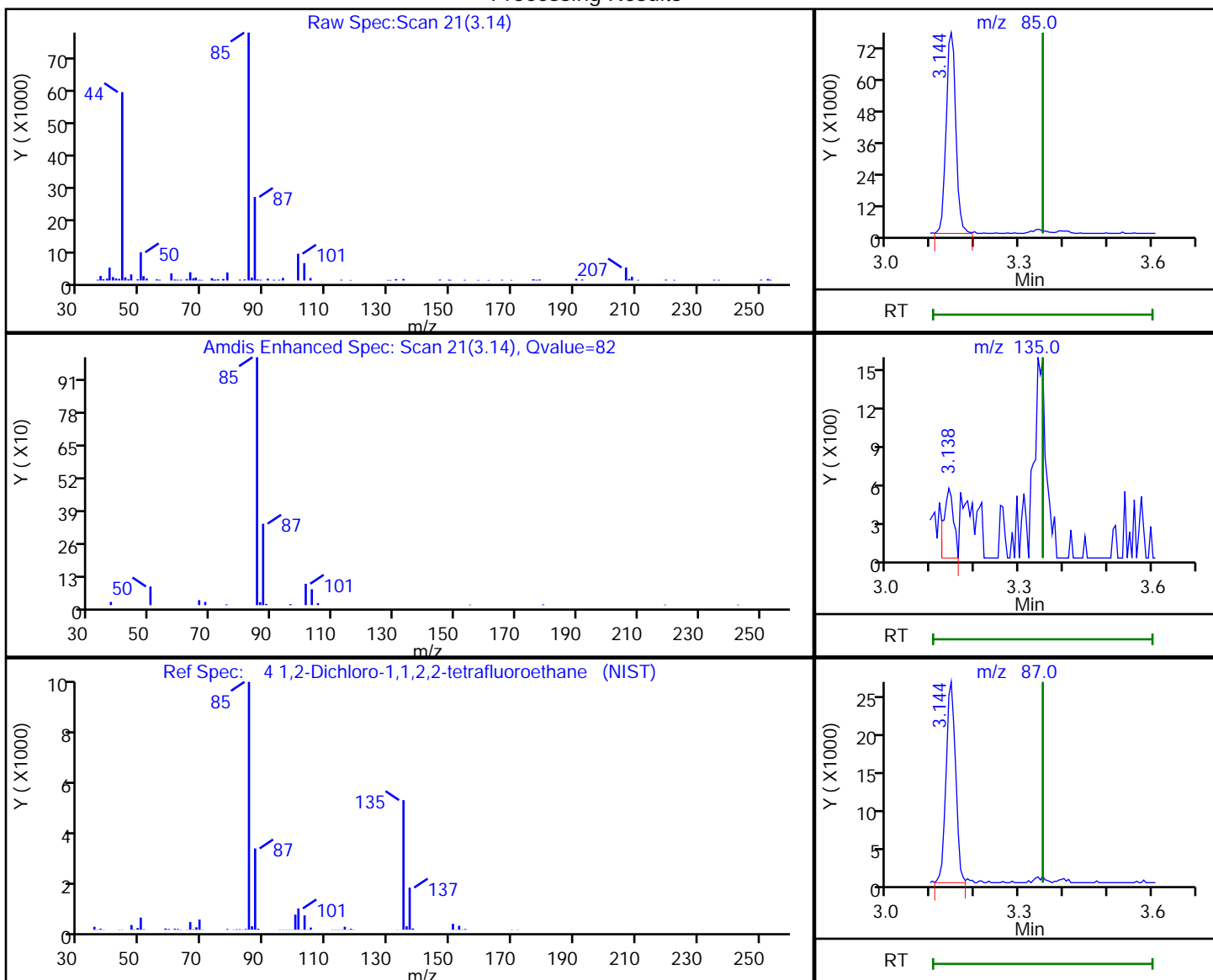


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 118319   | 0.709395 |
| 3.14 | 135.00 | 794      |          |
| 3.14 | 87.00  | 39243    |          |

Reviewer: bunmaa, 06-Dec-2018 17:16:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

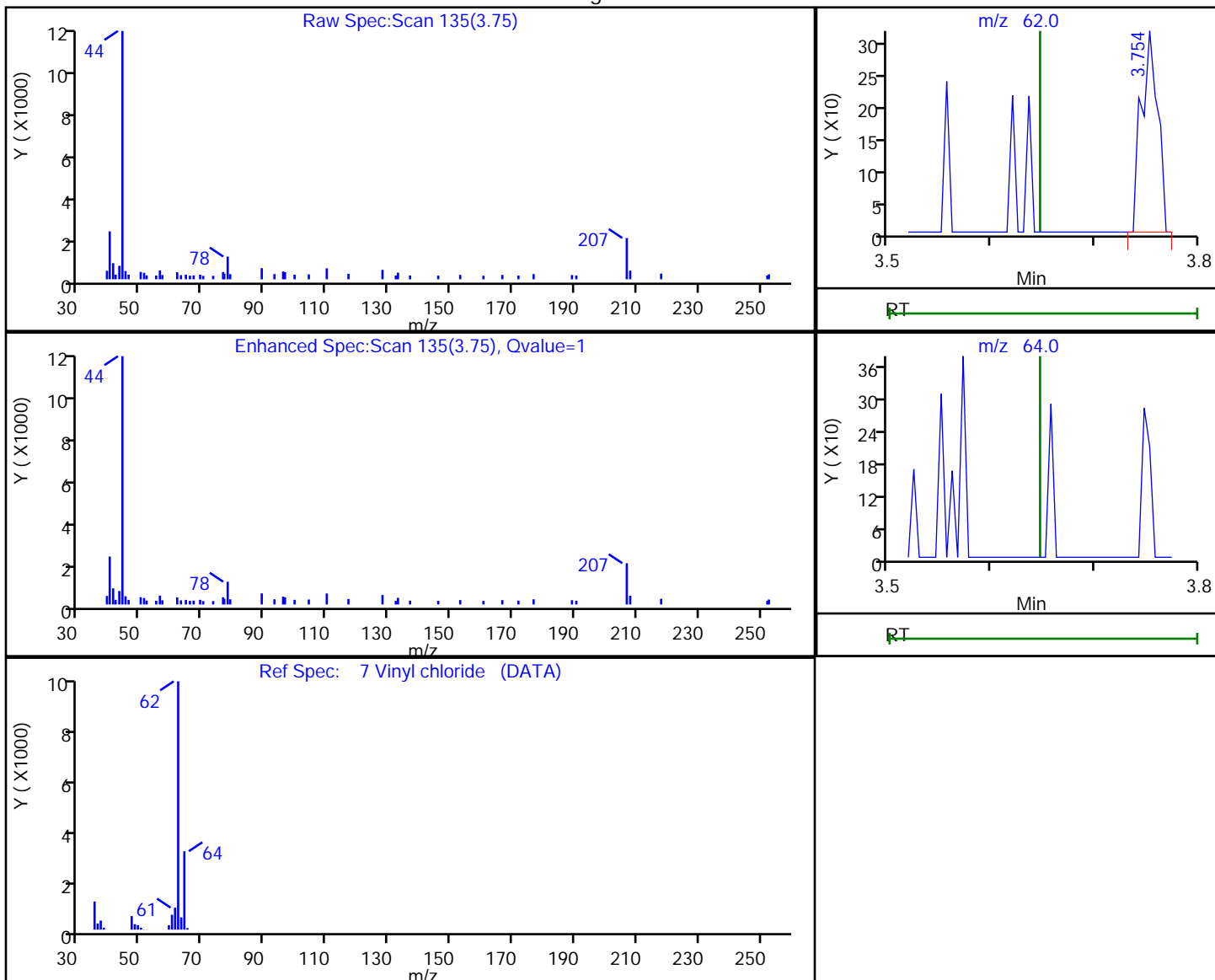


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.75 | 62.00 | 353      | 0.006800 |
| 3.65 | 64.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:16:39

Audit Action: Marked Compound Undetected

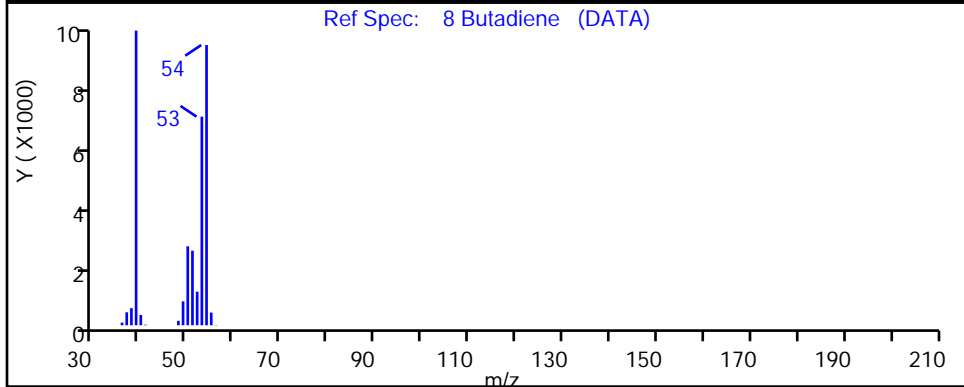
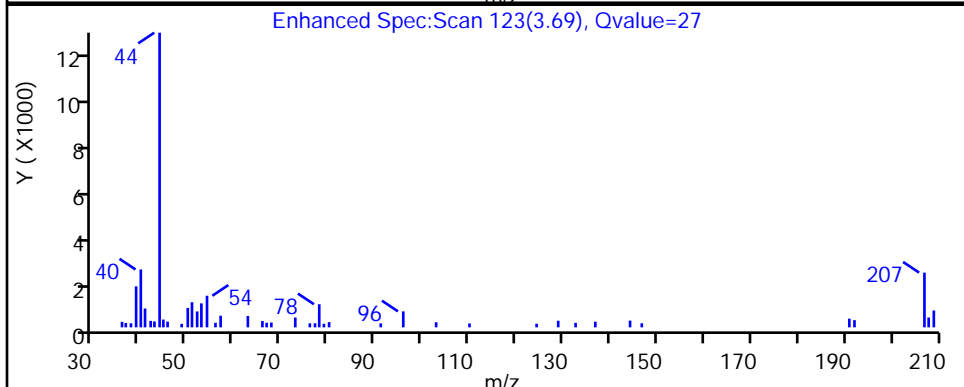
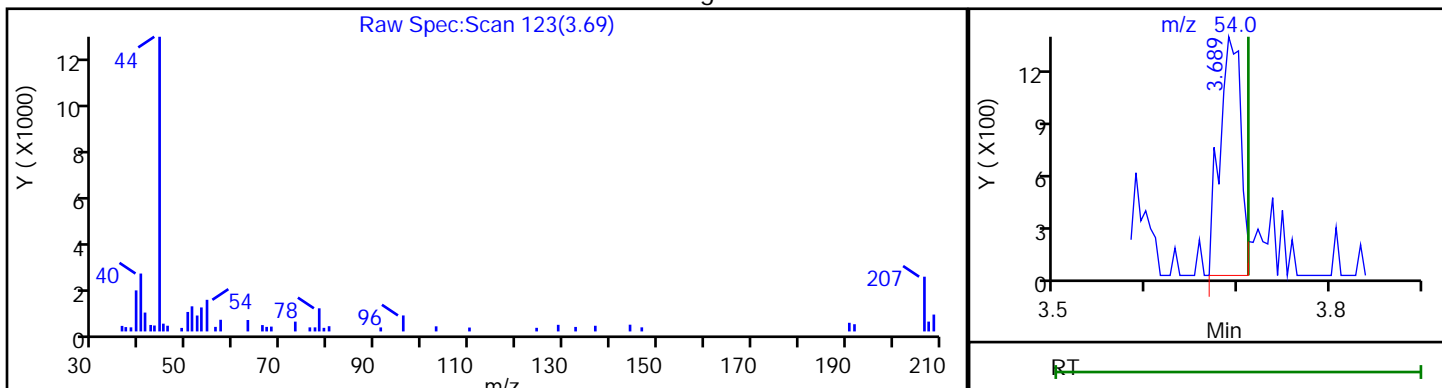
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 2193     | 0.067903 |

Reviewer: bunmaa, 06-Dec-2018 17:16:46

Audit Action: Marked Compound Undetected

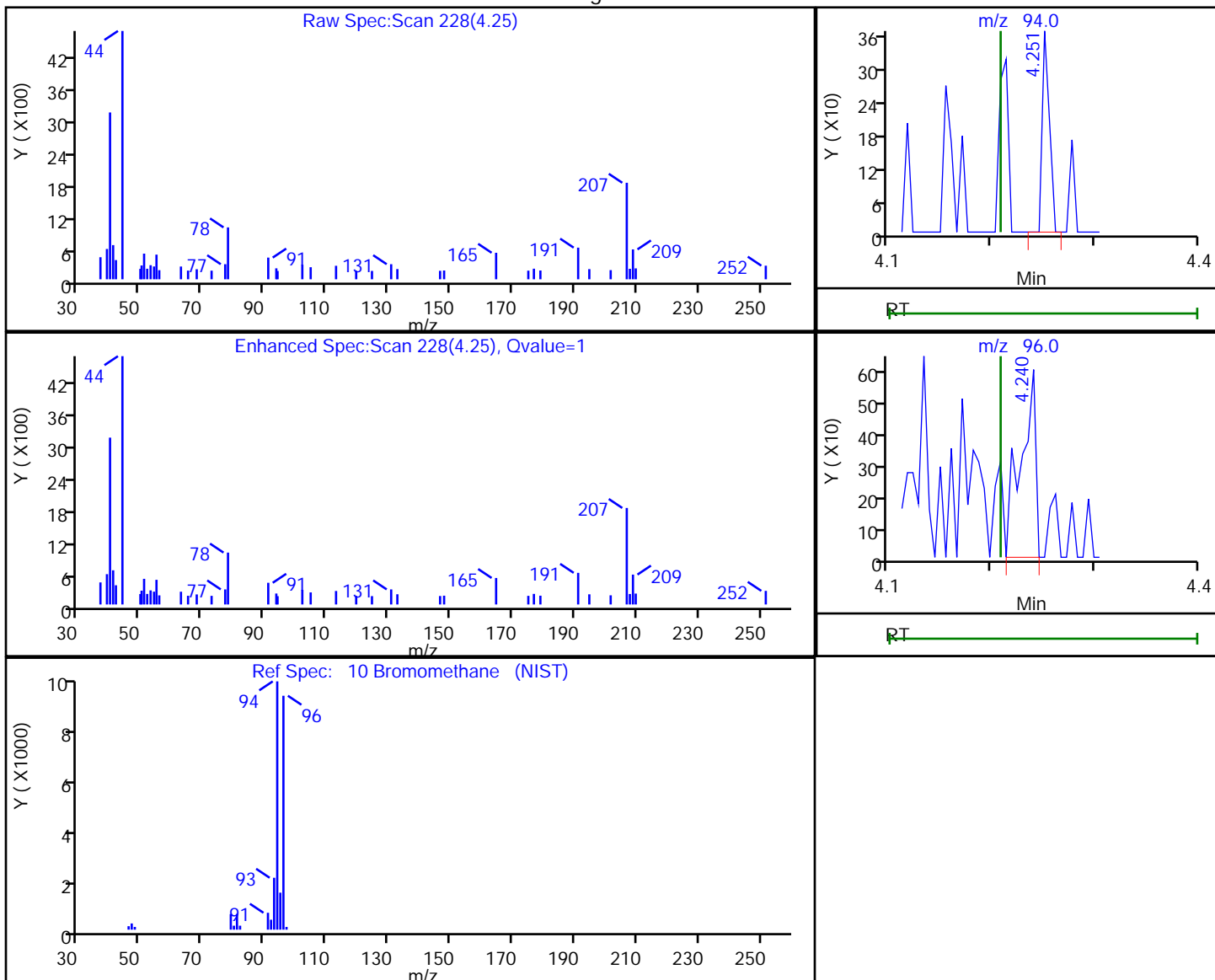
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.25 | 94.00 | 175      | 0.002920 |
| 4.24 | 96.00 | 599      |          |

Reviewer: bunmaa, 06-Dec-2018 17:16:49

Audit Action: Marked Compound Undetected

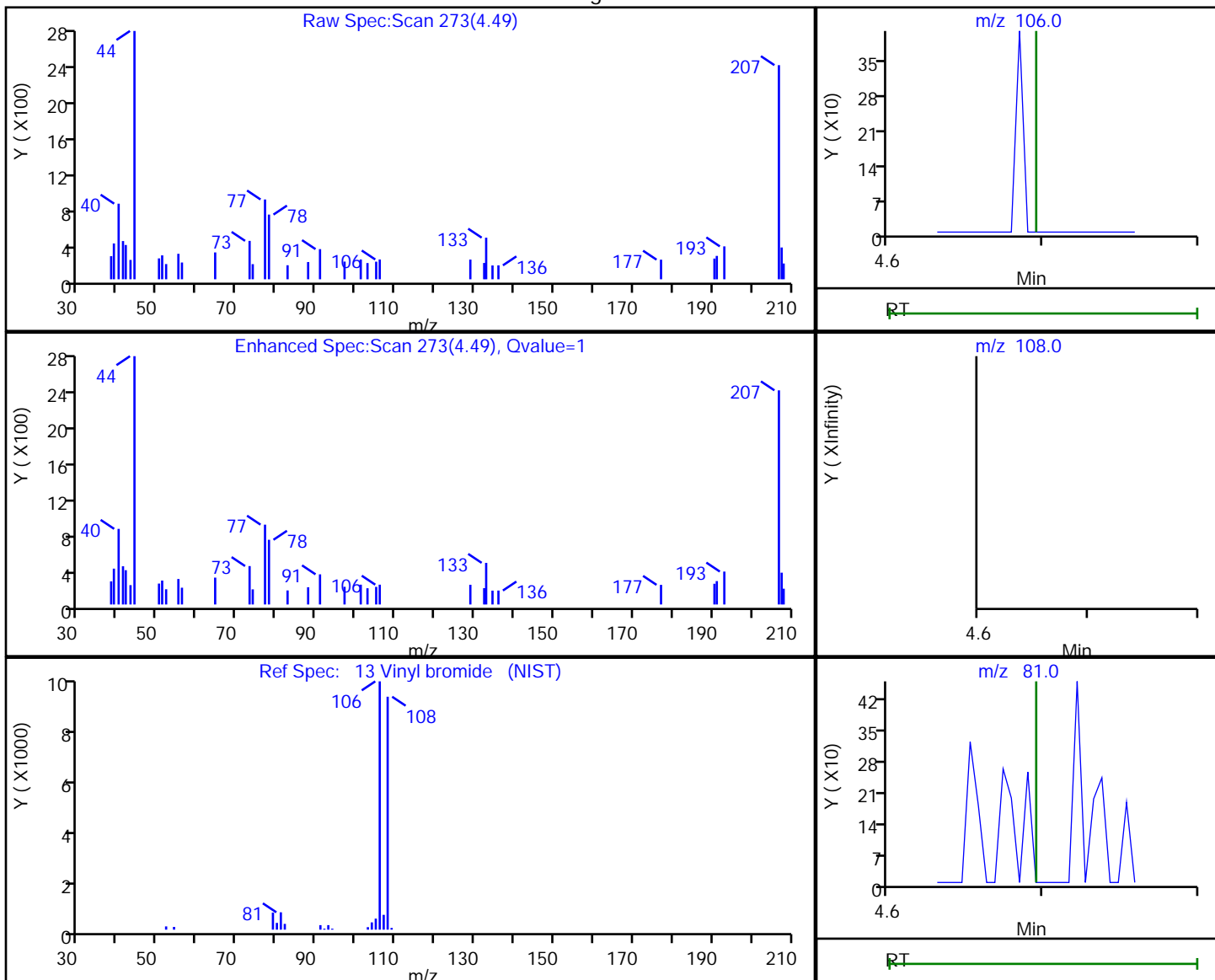
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.49 | 106.00 | 120      | 0.002025 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:16:55  
 Audit Action: Marked Compound Undetected

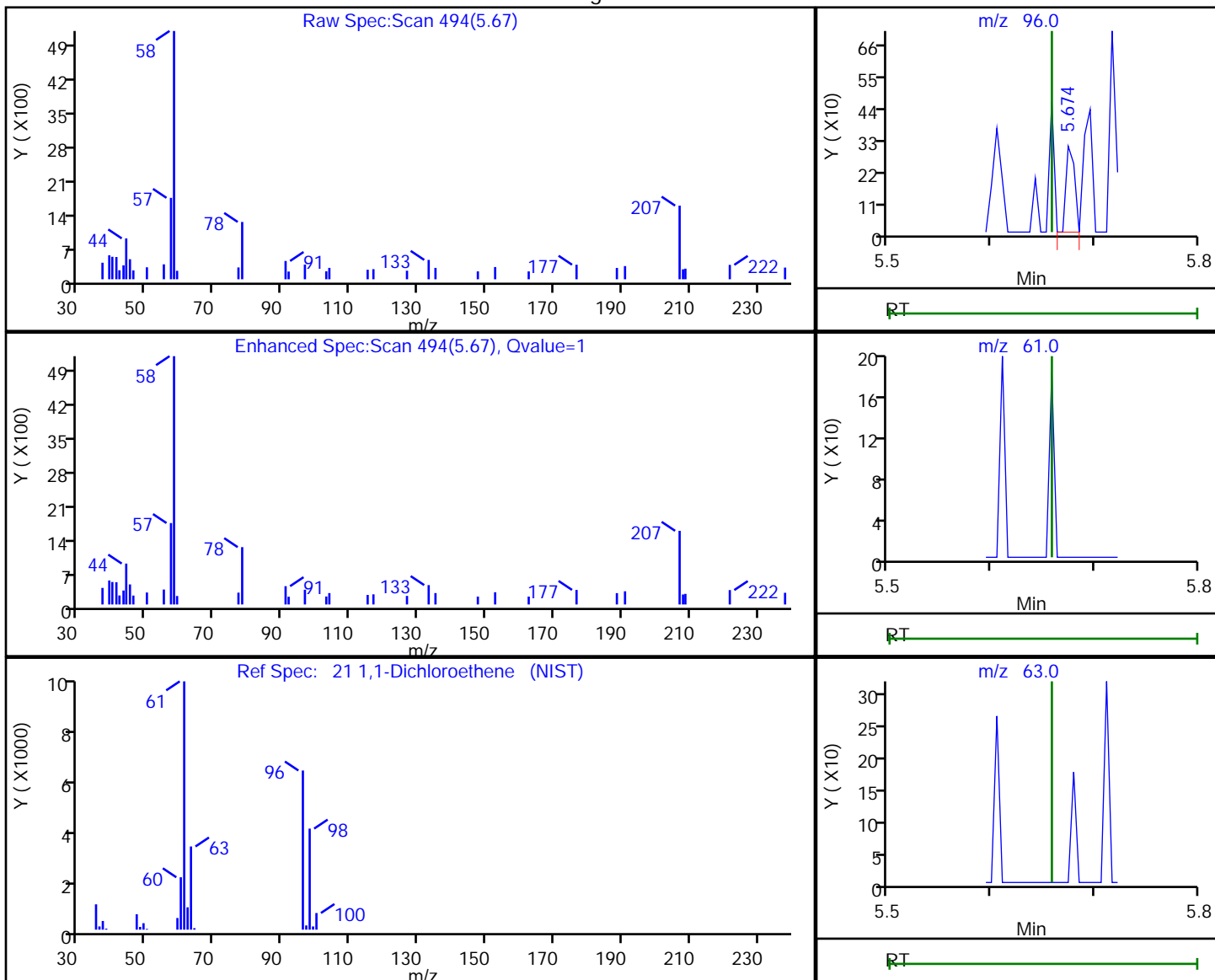
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.67 | 96.00 | 175      | 0.003223 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:17:02  
 Audit Action: Marked Compound Undetected

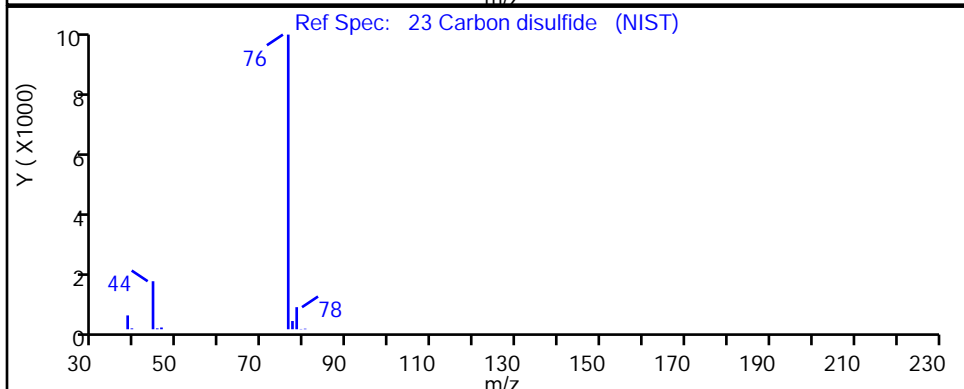
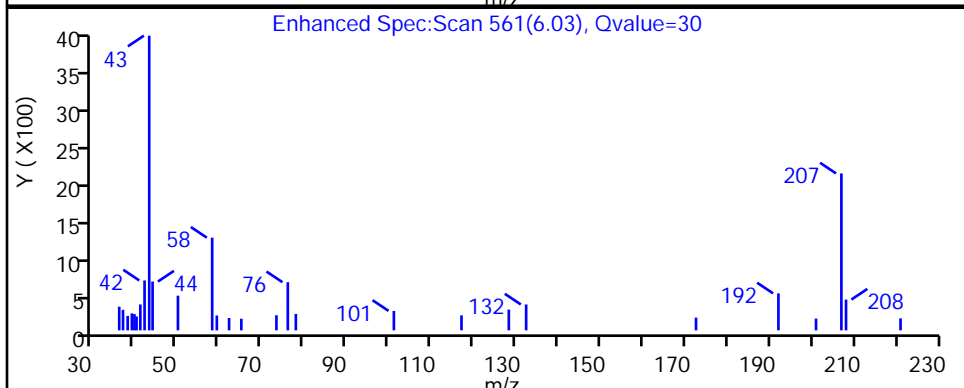
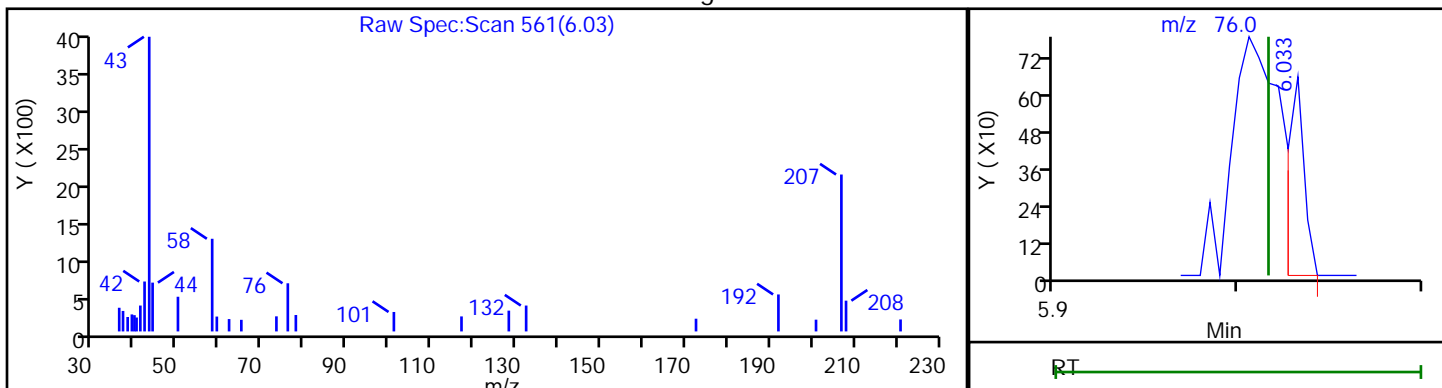
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.03 | 76.00 | 400      | 0.002864 |

Reviewer: bunmaa, 06-Dec-2018 17:17:29

Audit Action: Marked Compound Undetected

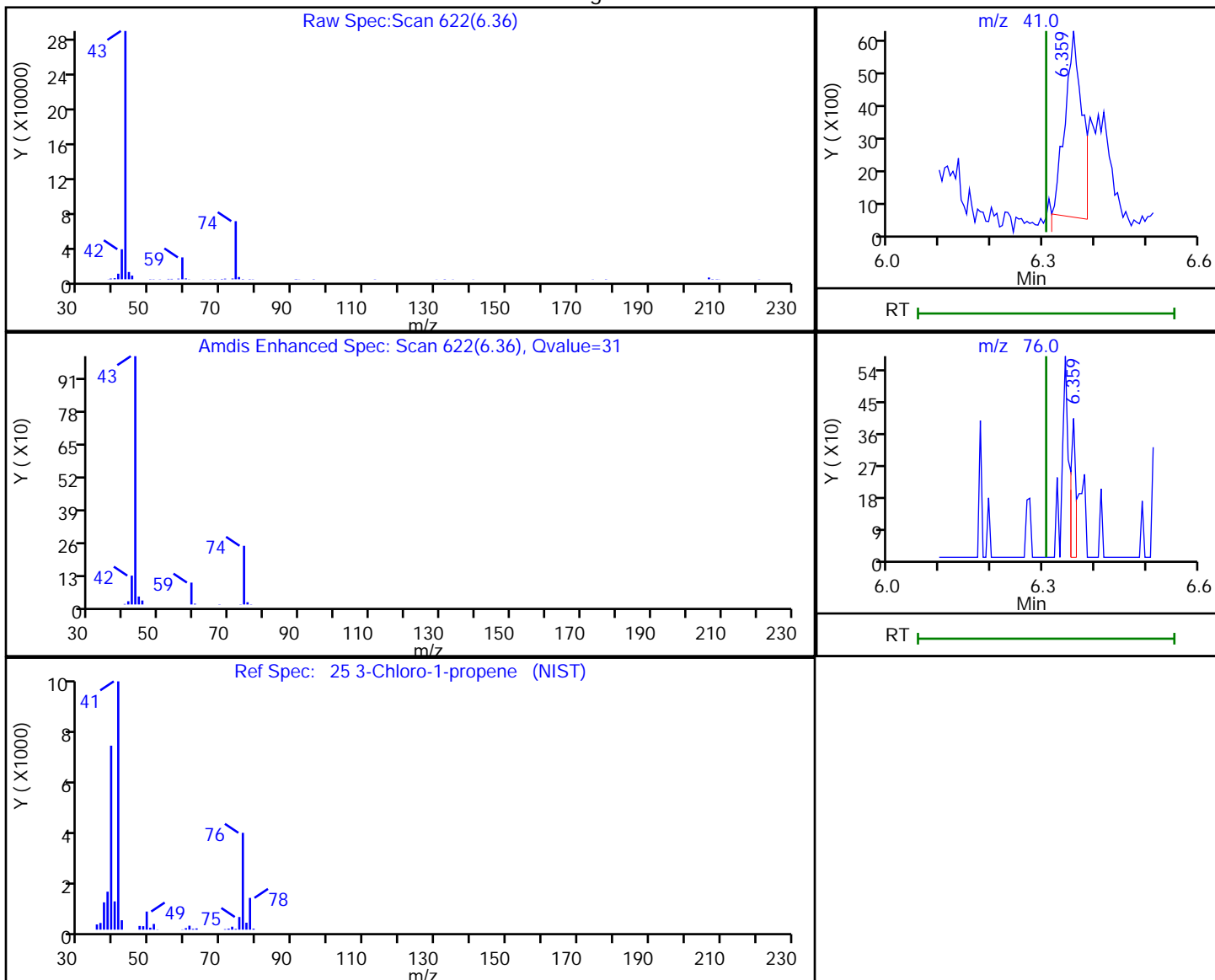
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.36 | 41.00 | 13283    | 0.328773 |
| 6.36 | 76.00 | 257      |          |

Reviewer: bunmaa, 06-Dec-2018 17:17:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

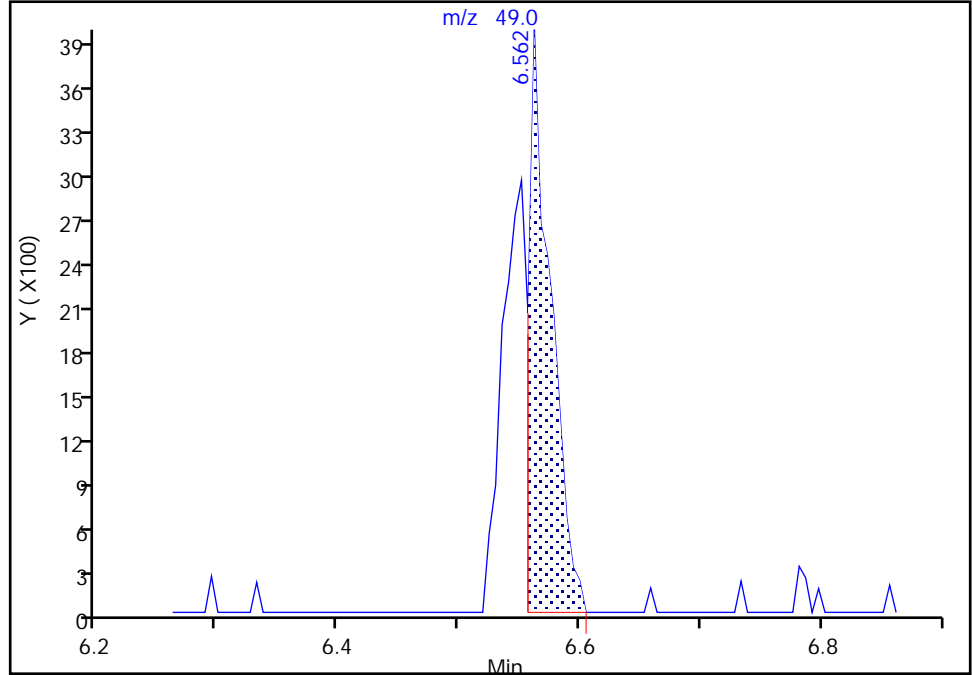
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

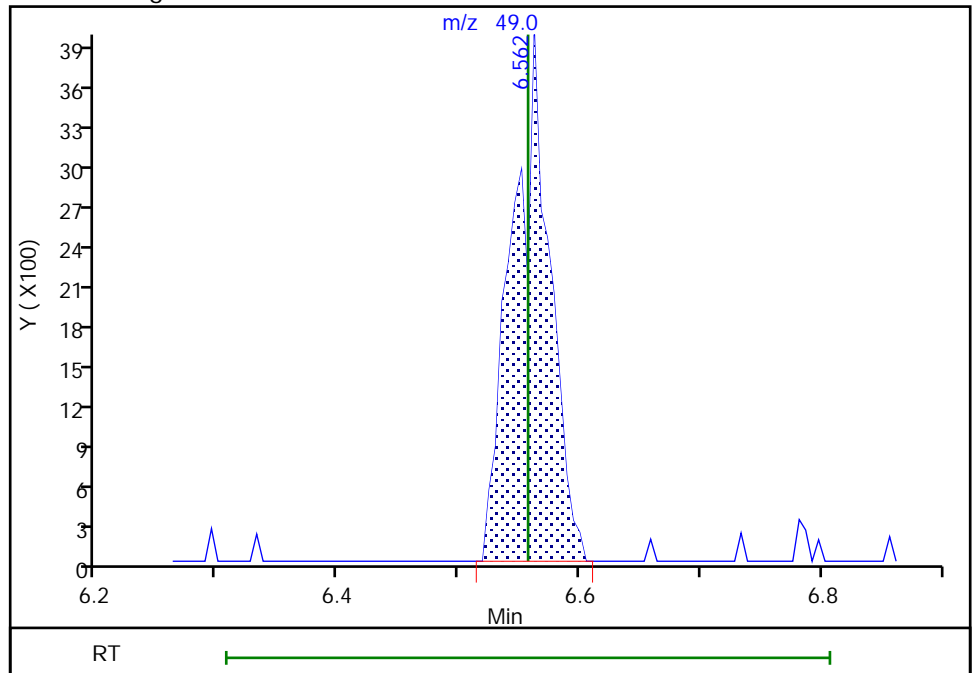
RT: 6.56  
Area: 4955  
Amount: 0.101103  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.56  
Area: 8528  
Amount: 0.174008  
Amount Units: ppb v/v

Manual Integration Results





TestAmerica Burlington

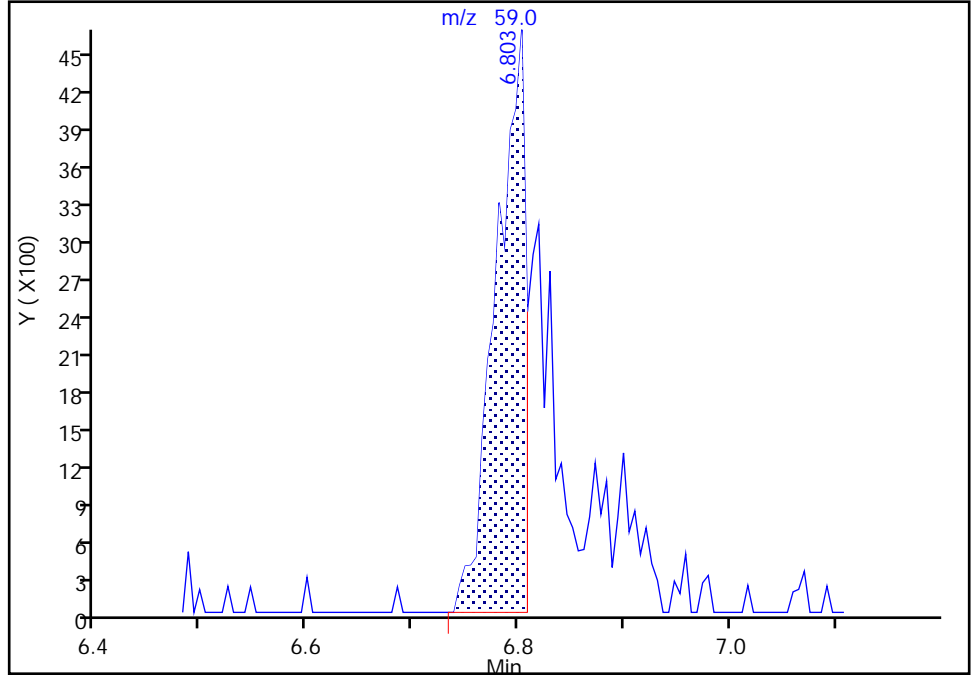
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

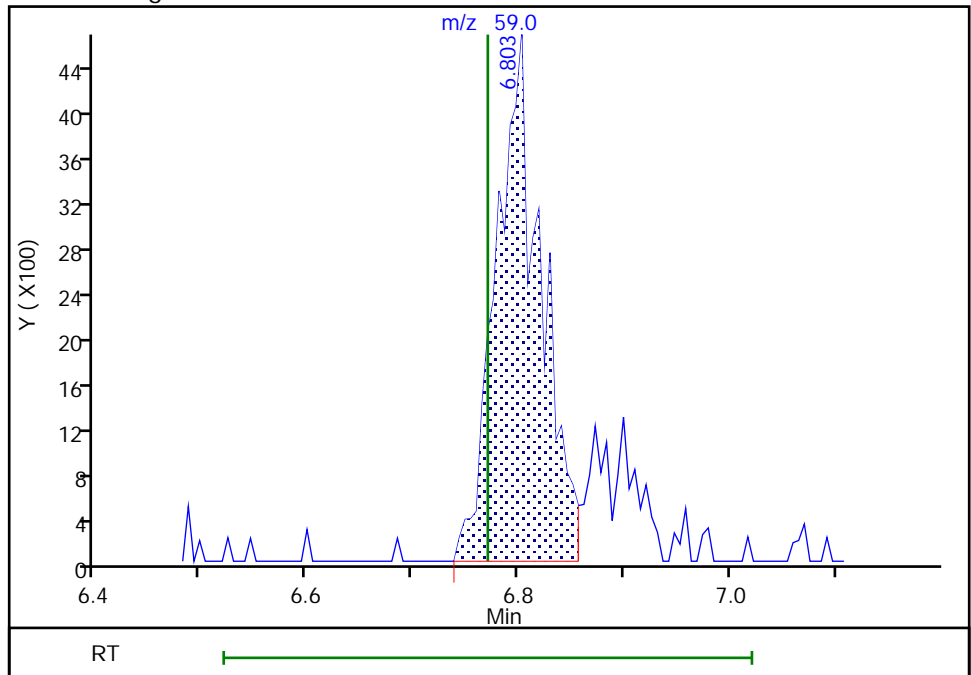
RT: 6.80  
Area: 9063  
Amount: 0.115993  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.80  
Area: 13729  
Amount: 0.175710  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 17:18:22  
Audit Action: Manually Integrated

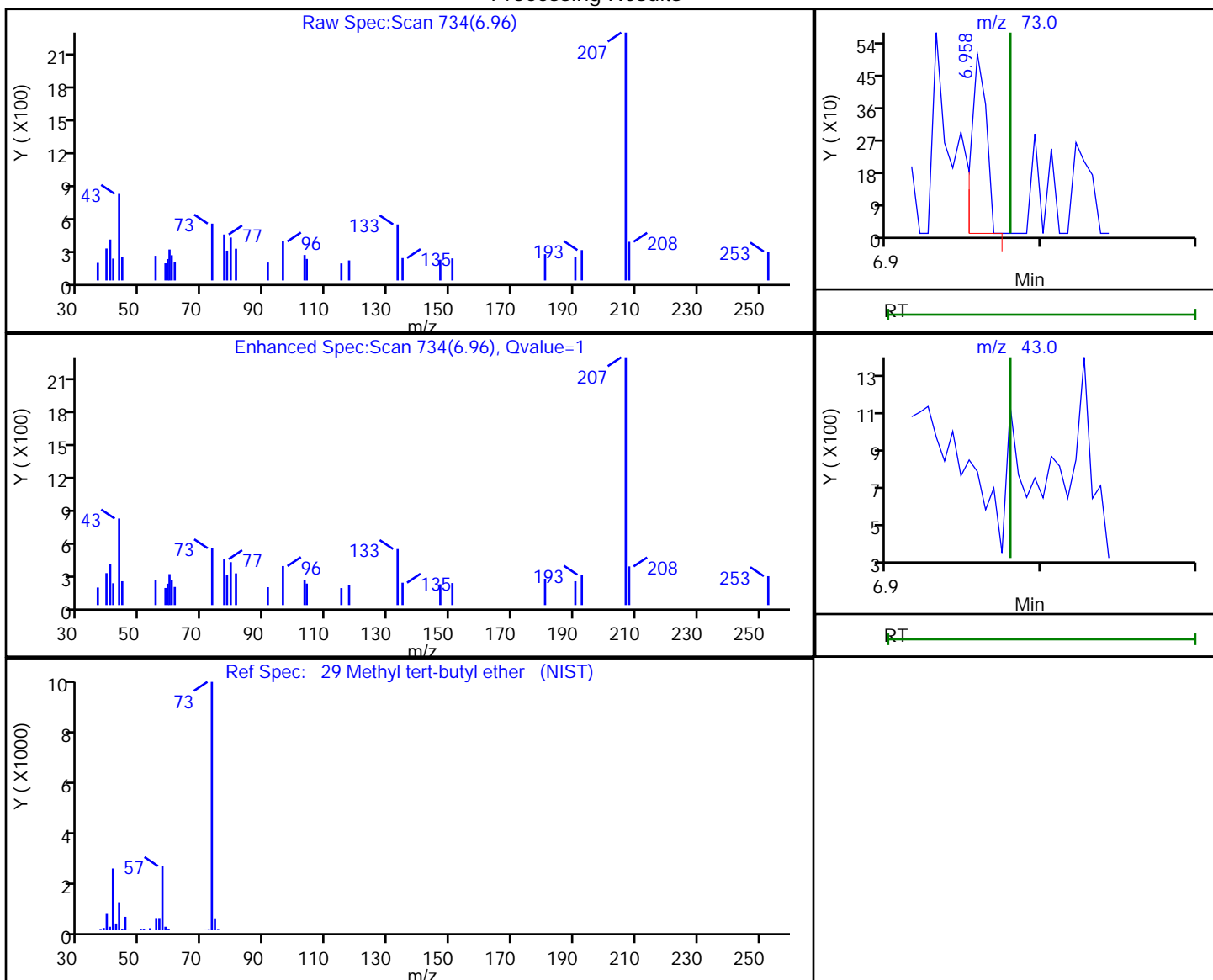
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.96 | 73.00 | 336      | 0.003183 |
| 6.98 | 43.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:18:34

Audit Action: Marked Compound Undetected

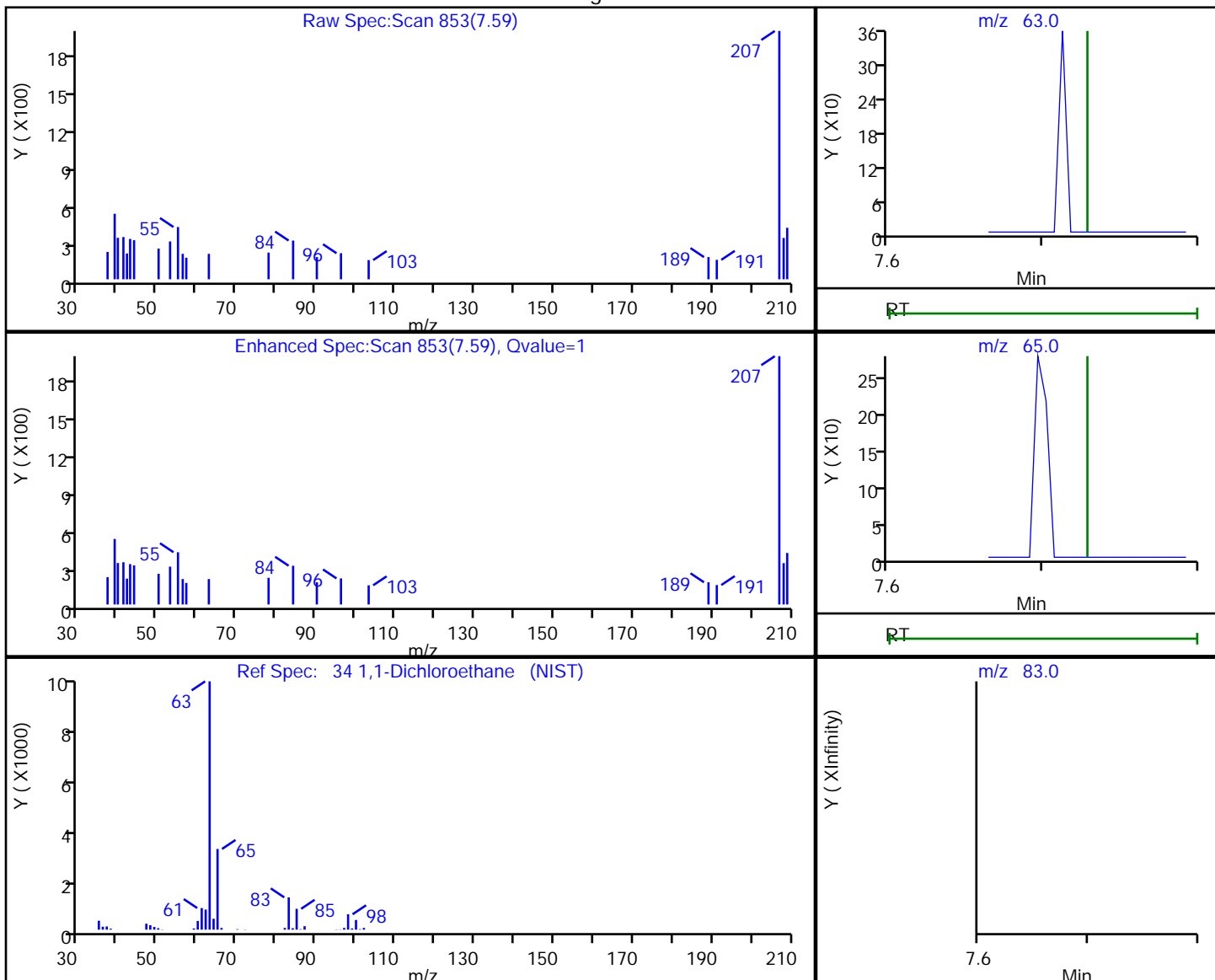
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.59 | 63.00 | 115      | 0.001354 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:18:39  
 Audit Action: Marked Compound Undetected

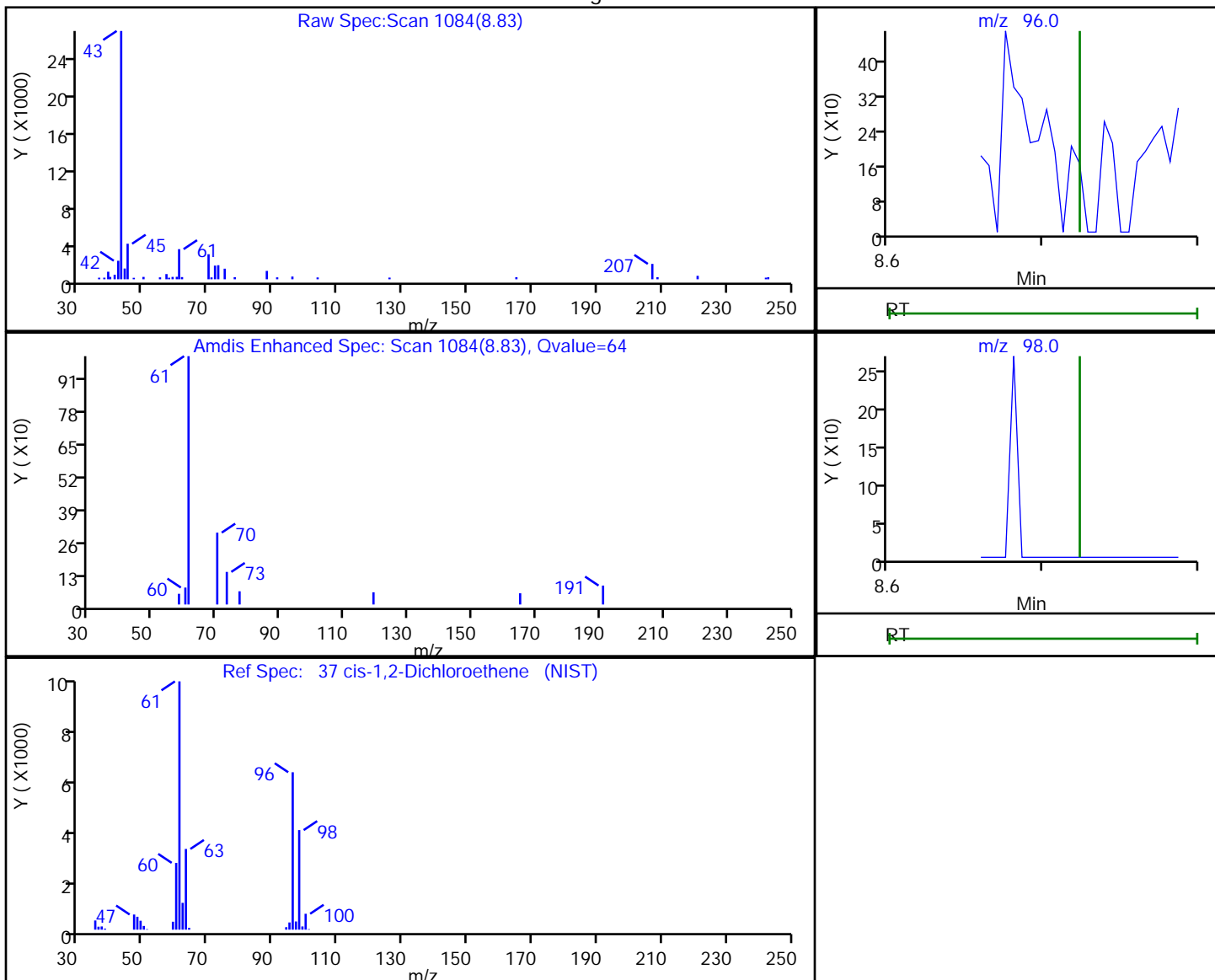
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.83 | 96.00 | 191      | 0.003713 |
| 8.72 | 98.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:18:42

Audit Action: Marked Compound Undetected

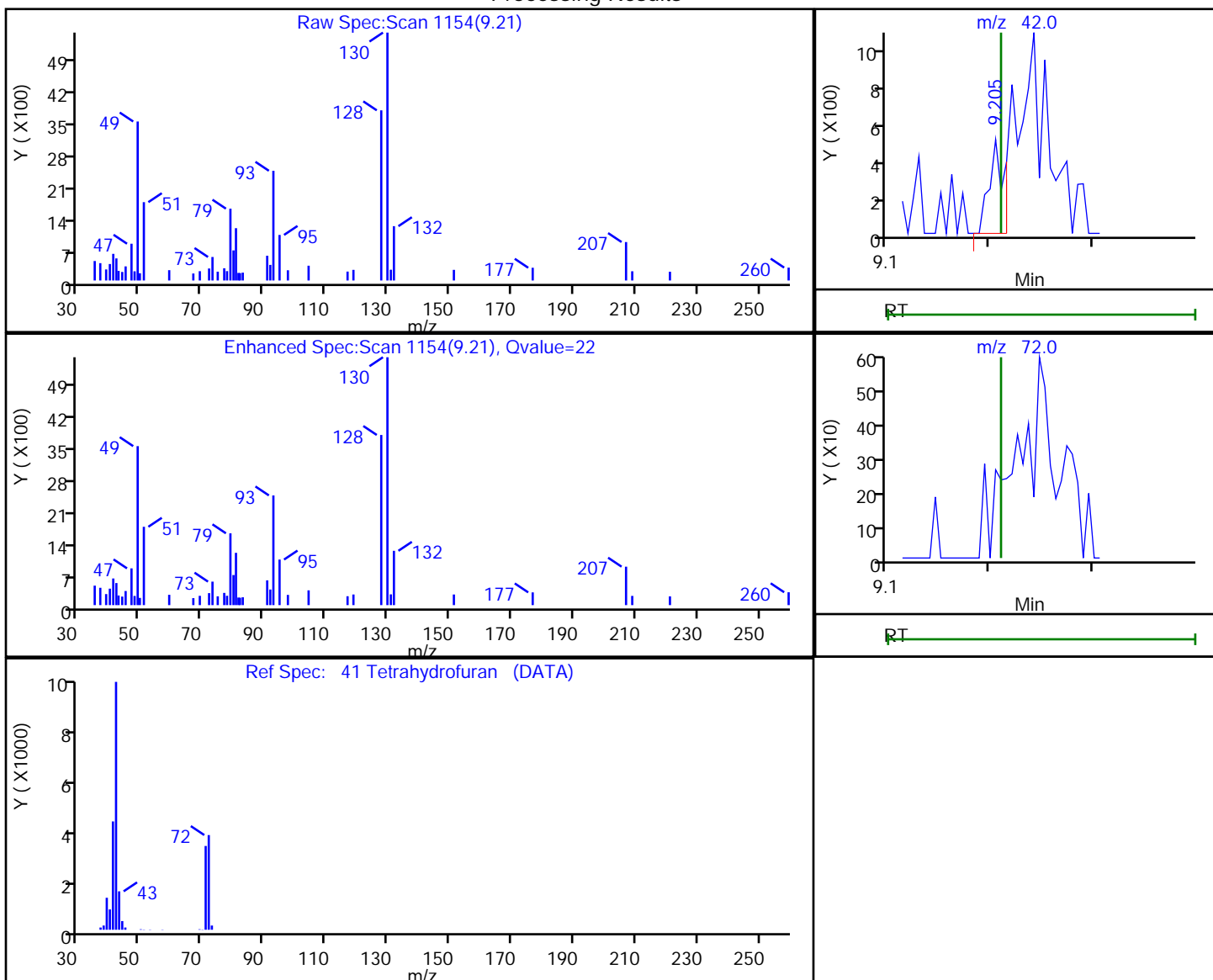
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.21 | 42.00 | 482      | 0.015012 |
| 9.21 | 72.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:19:03

Audit Action: Marked Compound Undetected

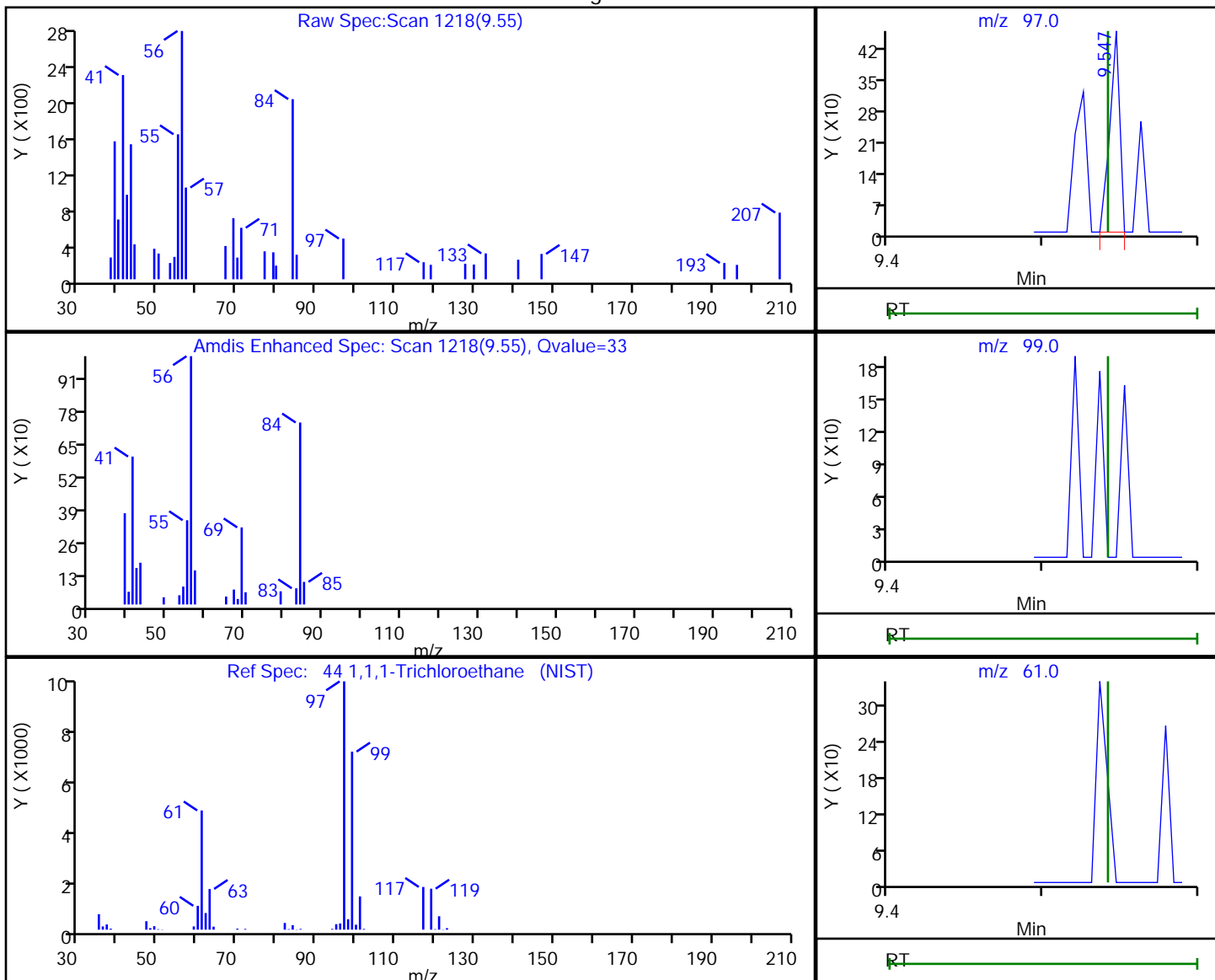
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.55 | 97.00 | 204      | 0.001304 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:19:34  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

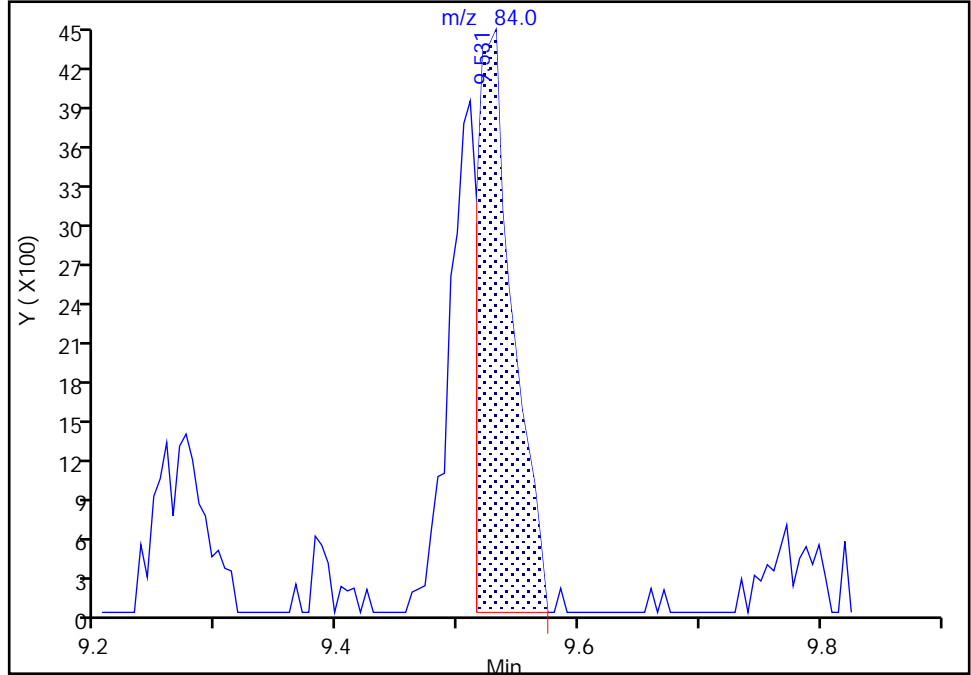
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

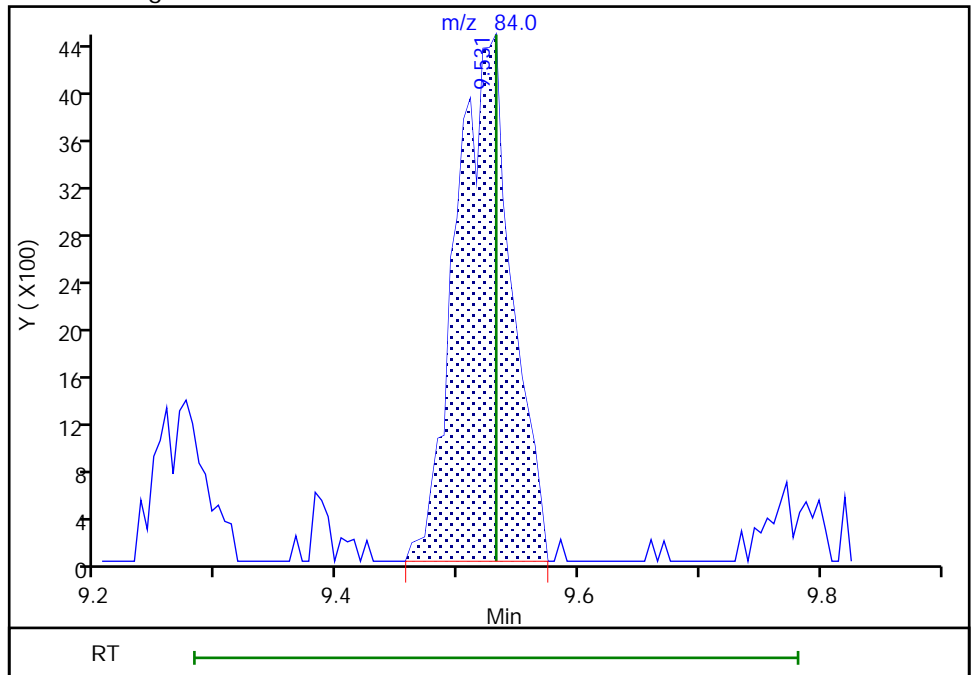
RT: 9.53  
Area: 8978  
Amount: 0.138976  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.53  
Area: 14205  
Amount: 0.219887  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 17:19:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

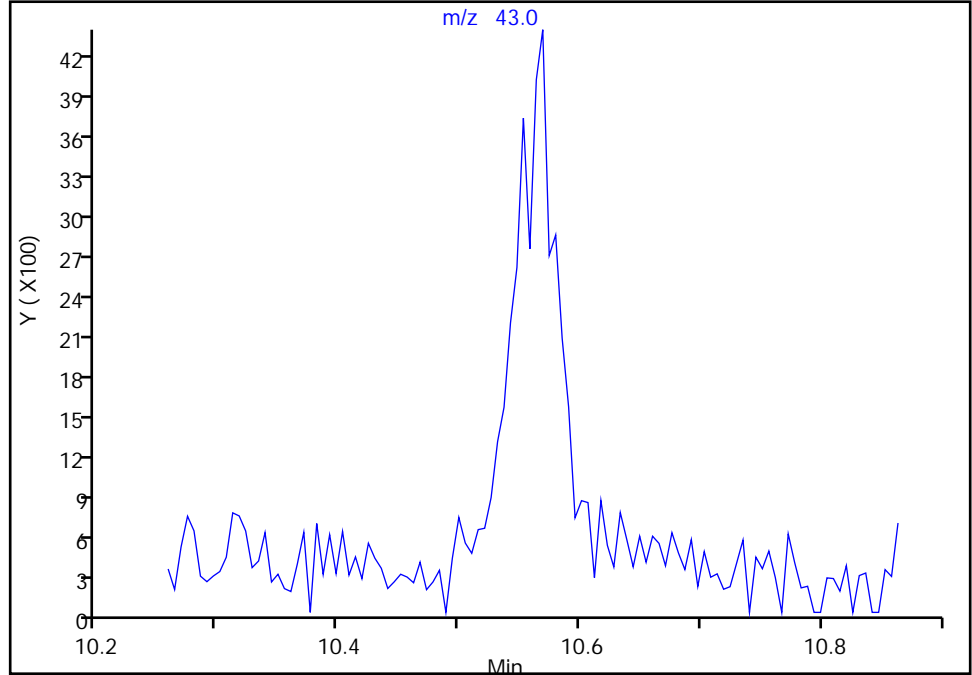
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

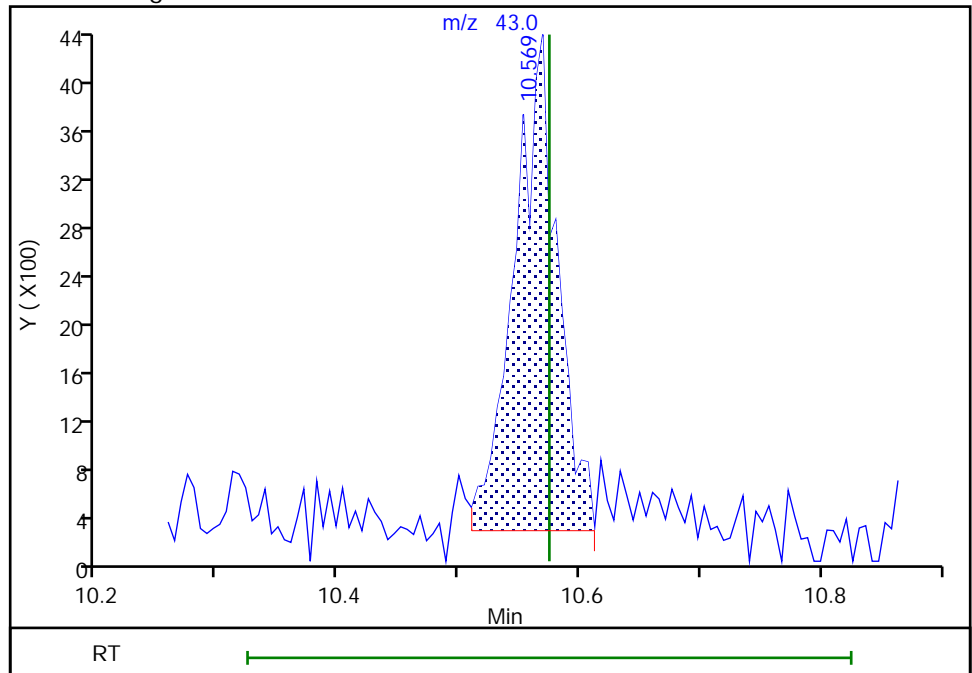
Not Detected  
Expected RT: 10.57

Processing Integration Results



Manual Integration Results

RT: 10.57  
Area: 9999  
Amount: 0.129669  
Amount Units: ppb v/v



Reviewer: bunmaa, 06-Dec-2018 17:20:14  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

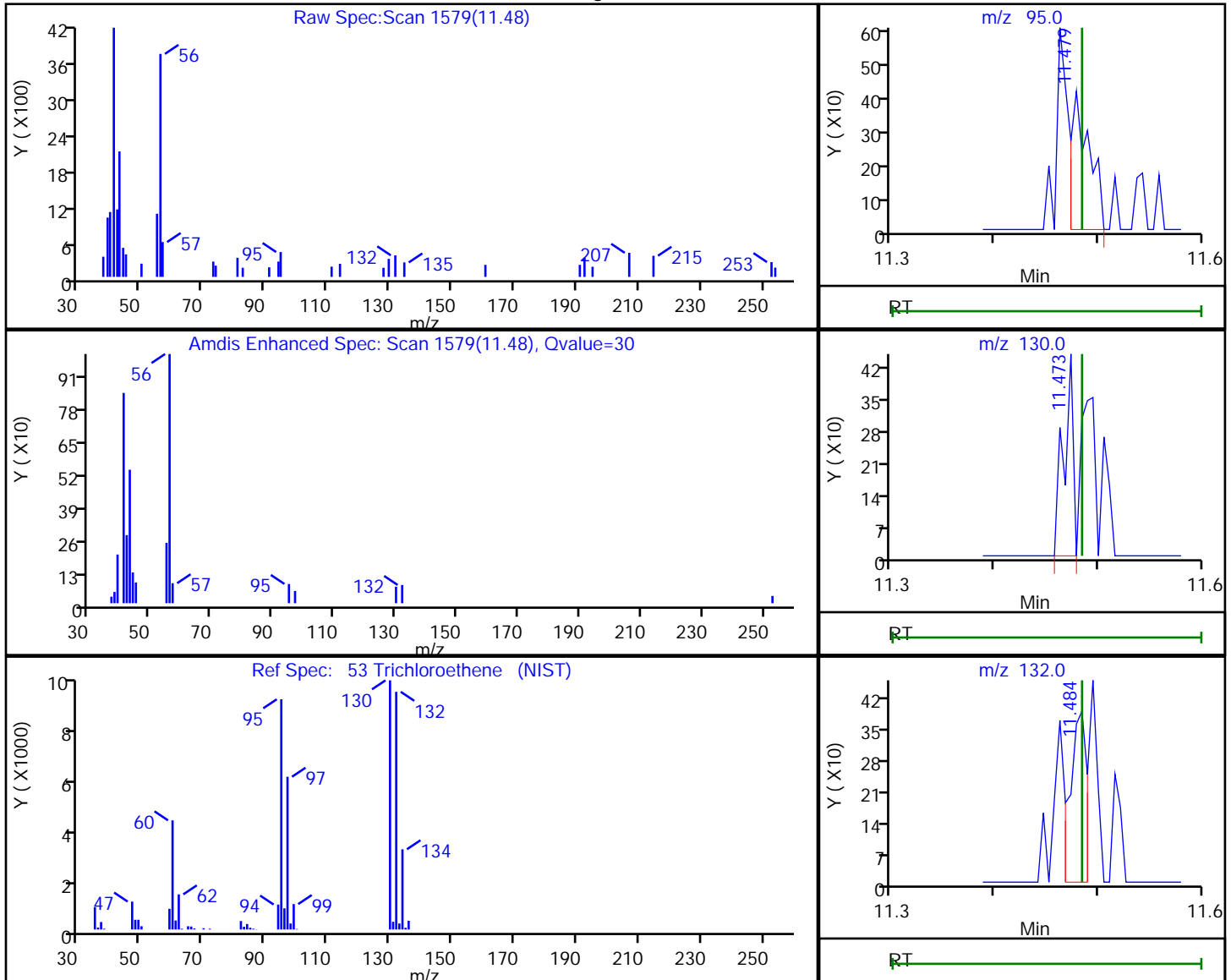


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.48 | 95.00  | 510      | 0.005200 |
| 11.47 | 130.00 | 287      |          |
| 11.48 | 132.00 | 440      |          |

Reviewer: bunmaa, 06-Dec-2018 17:20:27  
 Audit Action: Marked Compound Undetected

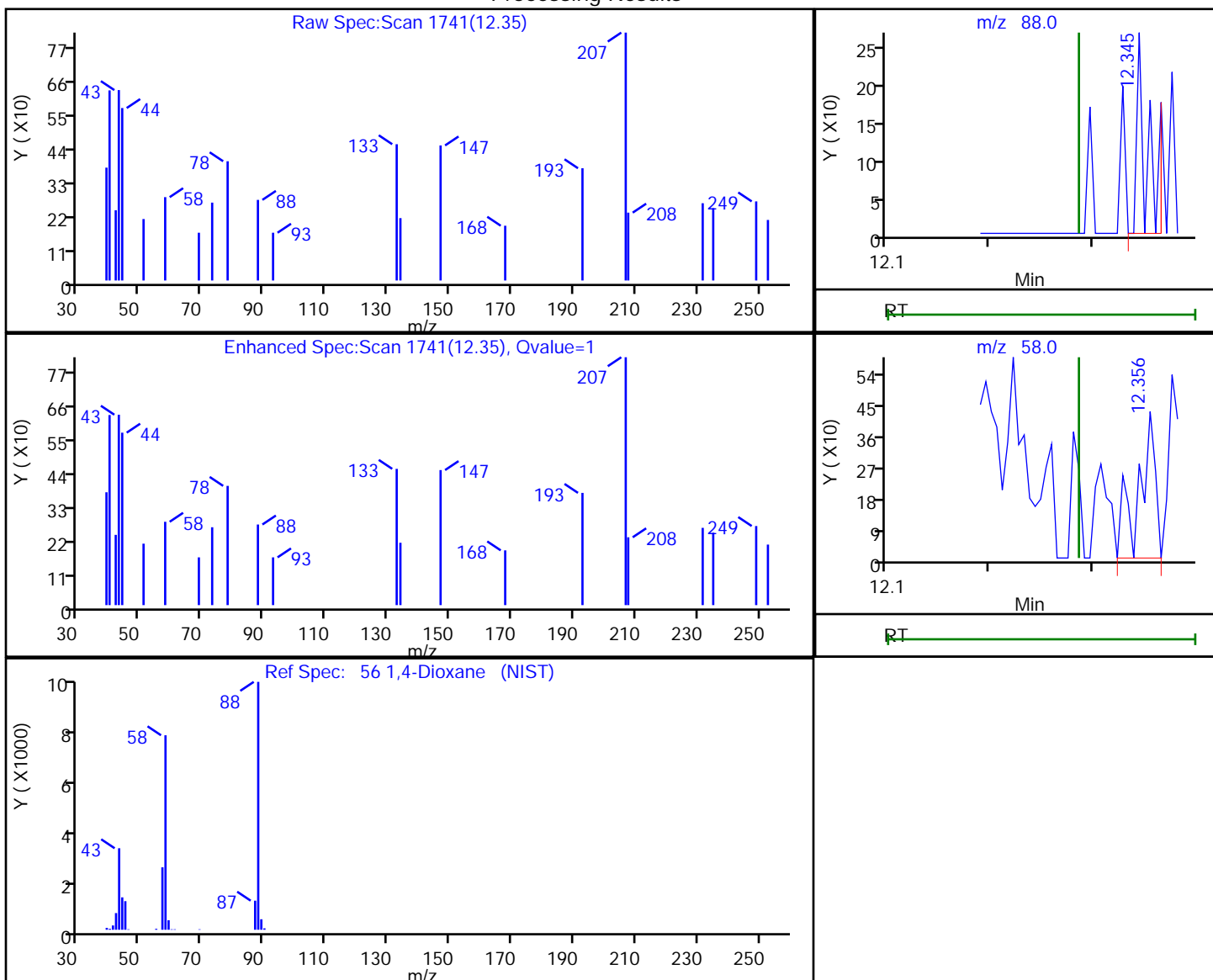
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.35 | 88.00 | 197      | 0.007151 |
| 12.36 | 58.00 | 484      |          |

Reviewer: bunmaa, 06-Dec-2018 17:21:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

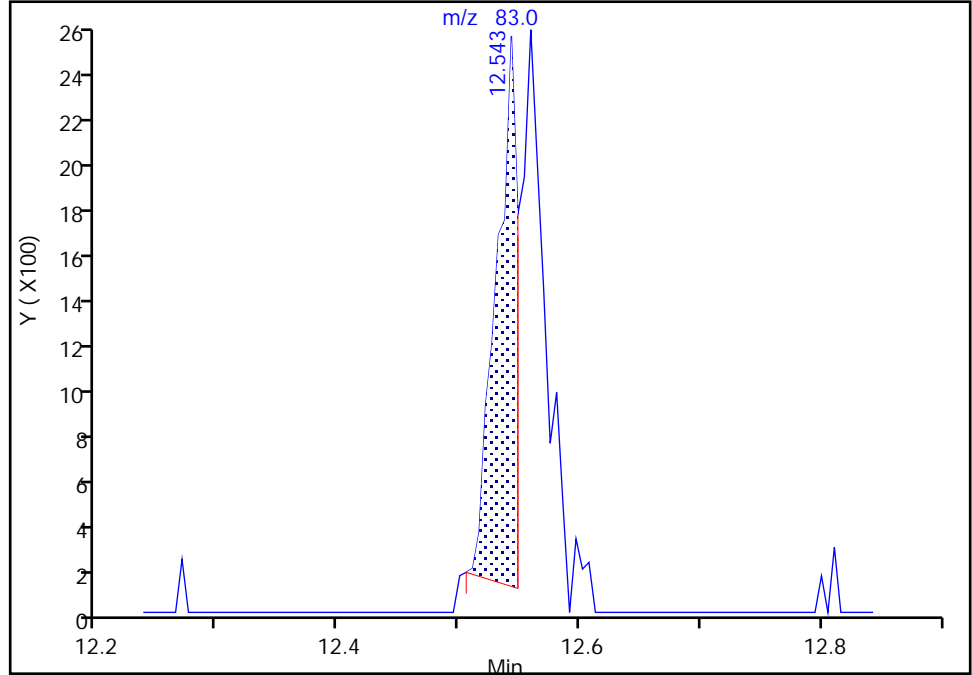
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

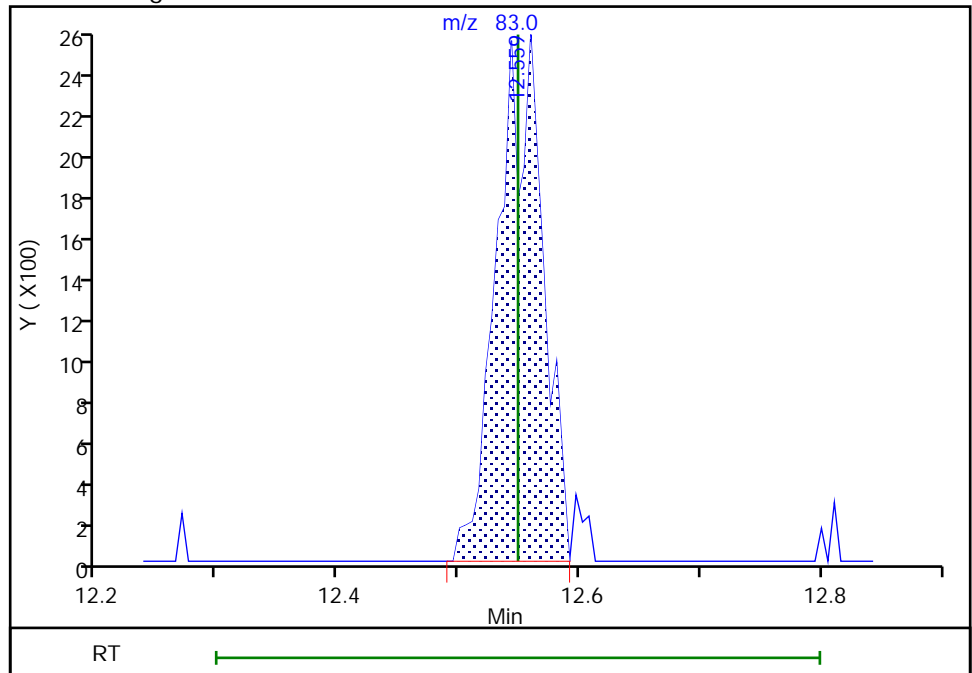
RT: 12.54  
Area: 2895  
Amount: 0.019008  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.56  
Area: 6497  
Amount: 0.042658  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 17:21:16  
Audit Action: Manually Integrated

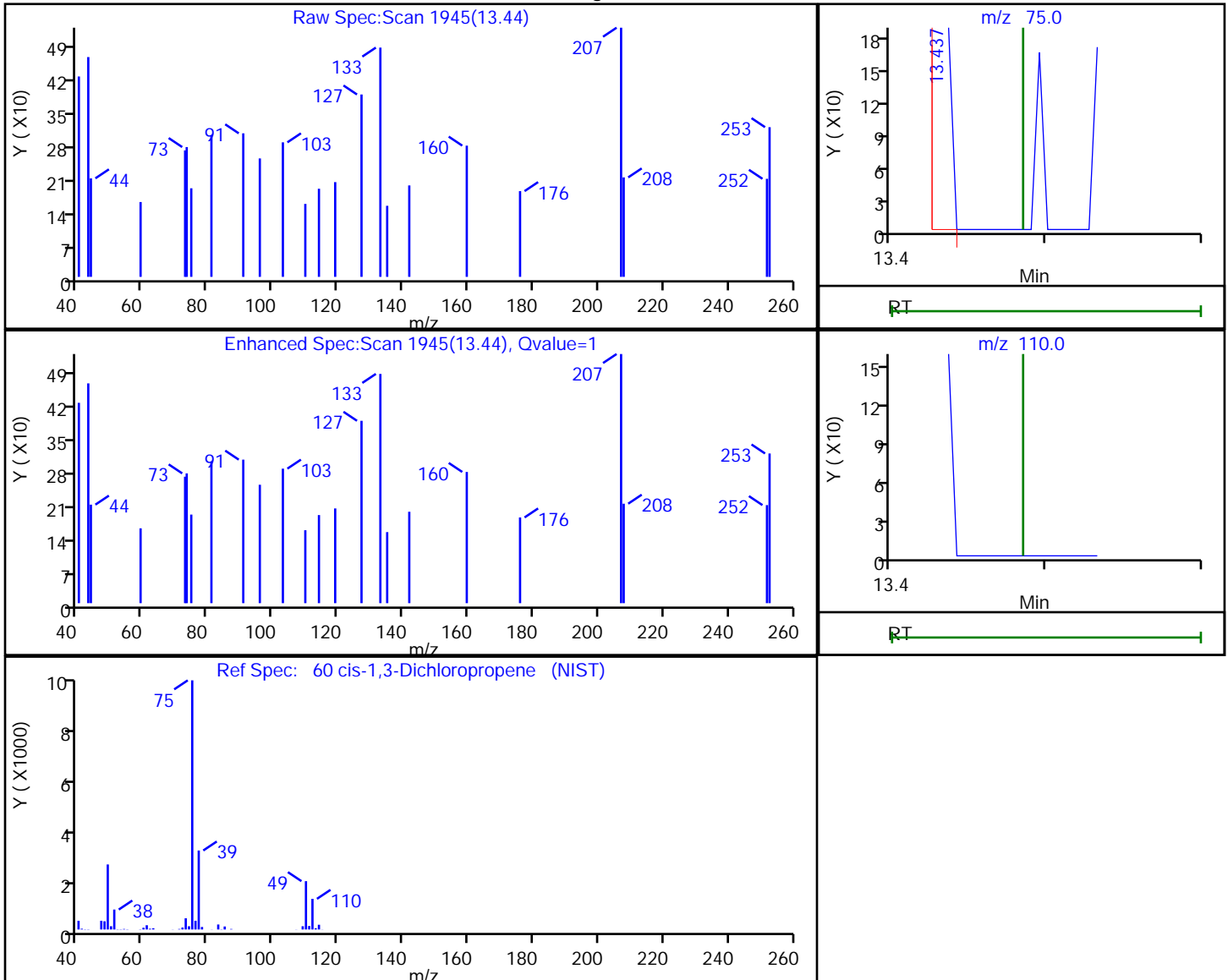
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.44 | 75.00  | 111      | 0.001177 |
| 13.48 | 110.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:21:23

Audit Action: Marked Compound Undetected

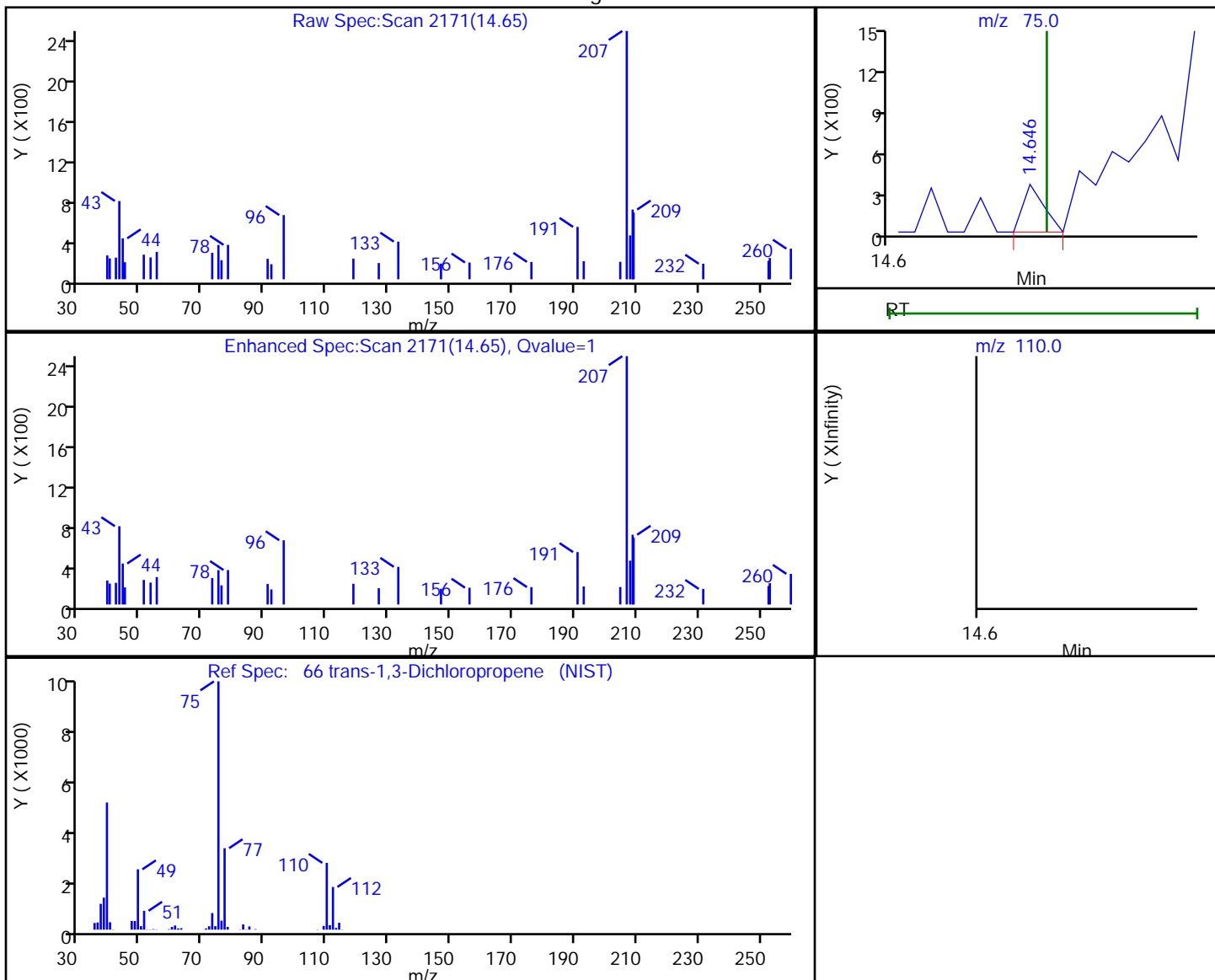
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.65 | 75.00  | 161      | 0.001736 |
| 14.65 | 110.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:21:51

Audit Action: Marked Compound Undetected

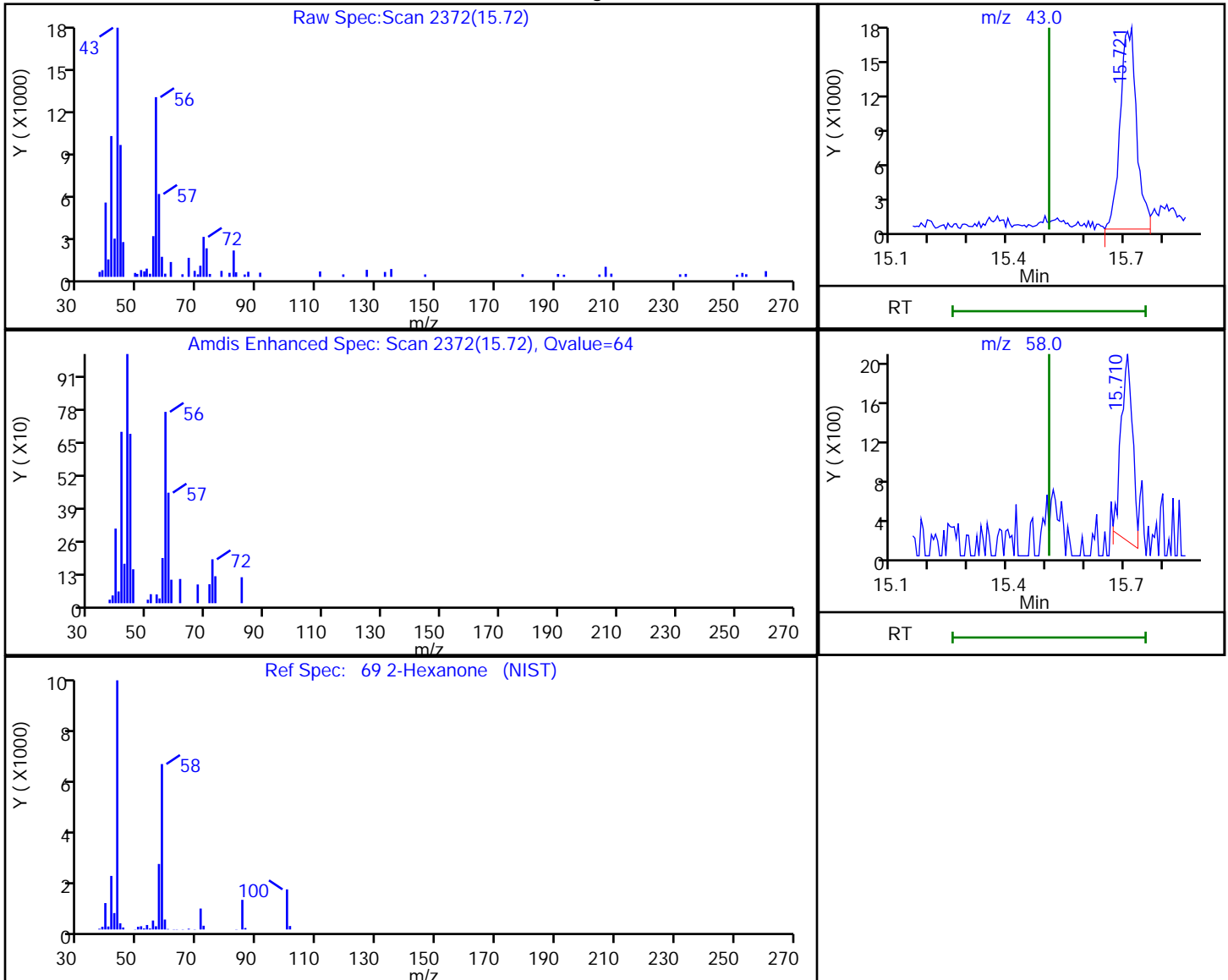
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.72 | 43.00 | 51008    | 0.549661 |
| 15.71 | 58.00 | 3965     |          |

Reviewer: bunmaa, 06-Dec-2018 17:21:58

Audit Action: Marked Compound Undetected

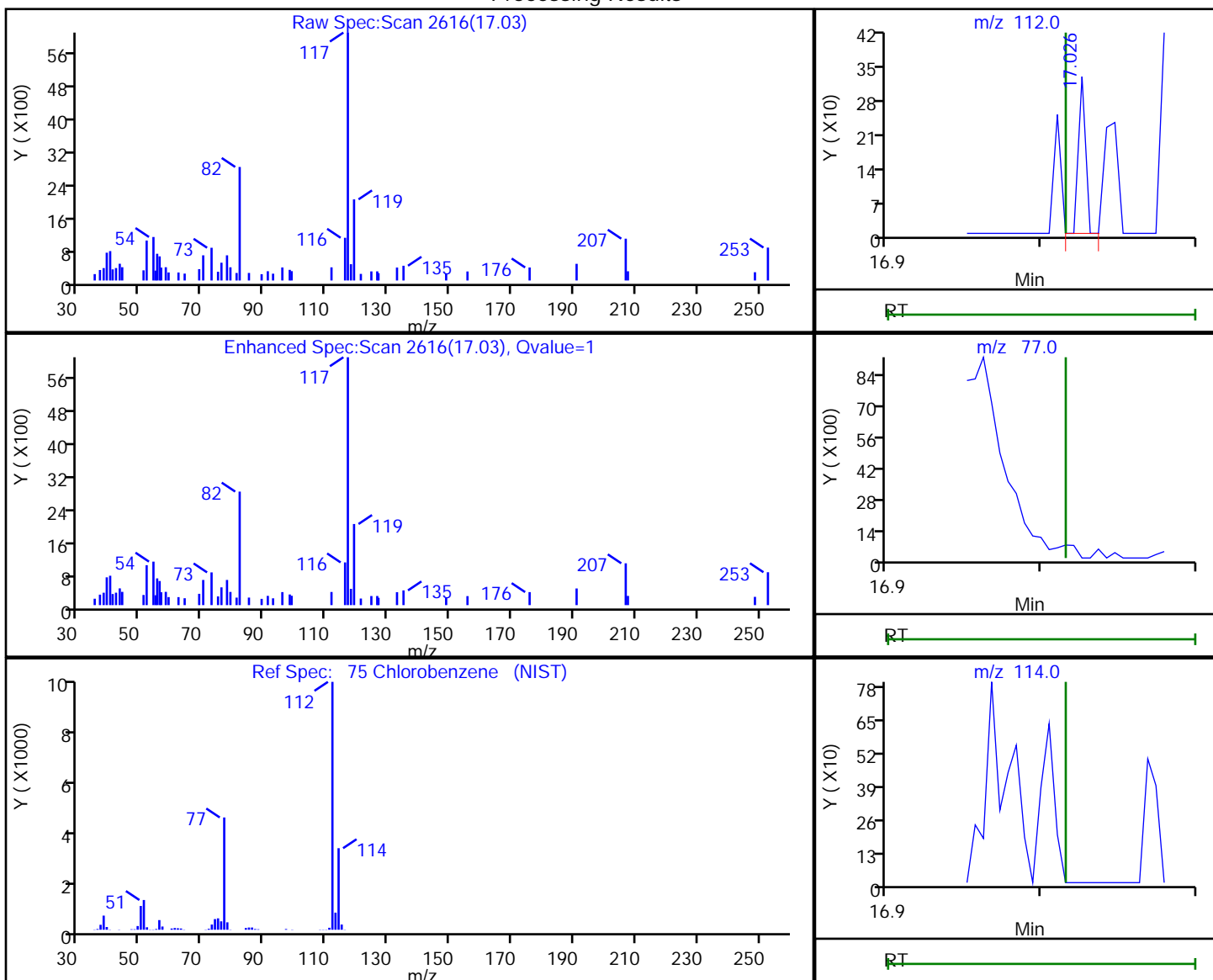
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.03 | 112.00 | 103      | 0.000634 |
| 17.02 | 77.00  | 0        |          |
| 17.02 | 114.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:22:05  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

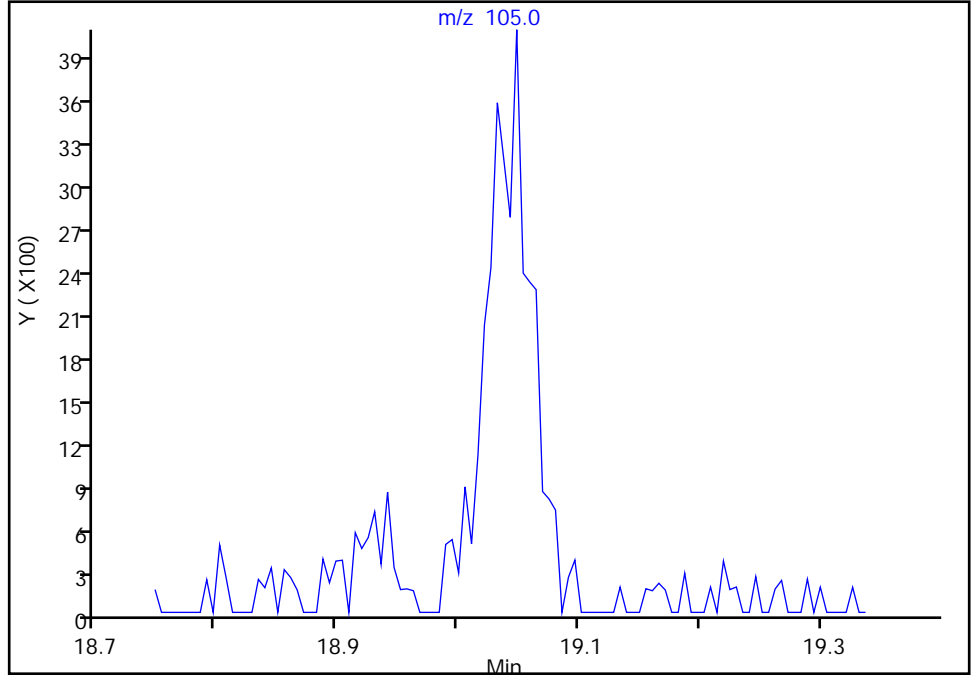
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

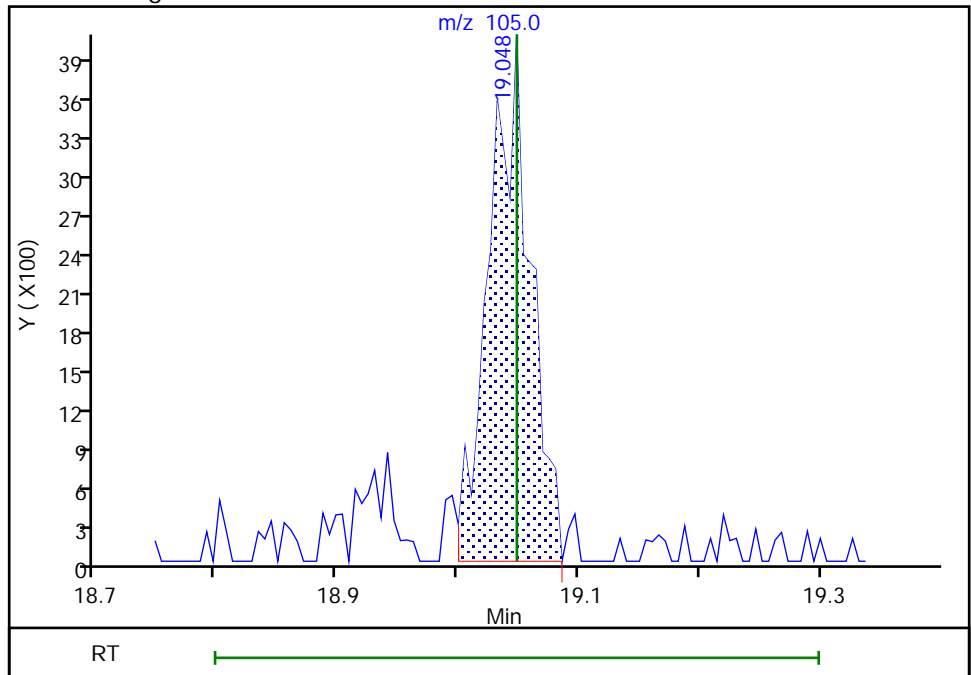
Signal: 1

Not Detected  
Expected RT: 19.05

Processing Integration Results



Manual Integration Results



RT: 19.05  
Area: 9615  
Amount: 0.035901  
Amount Units: ppb v/v

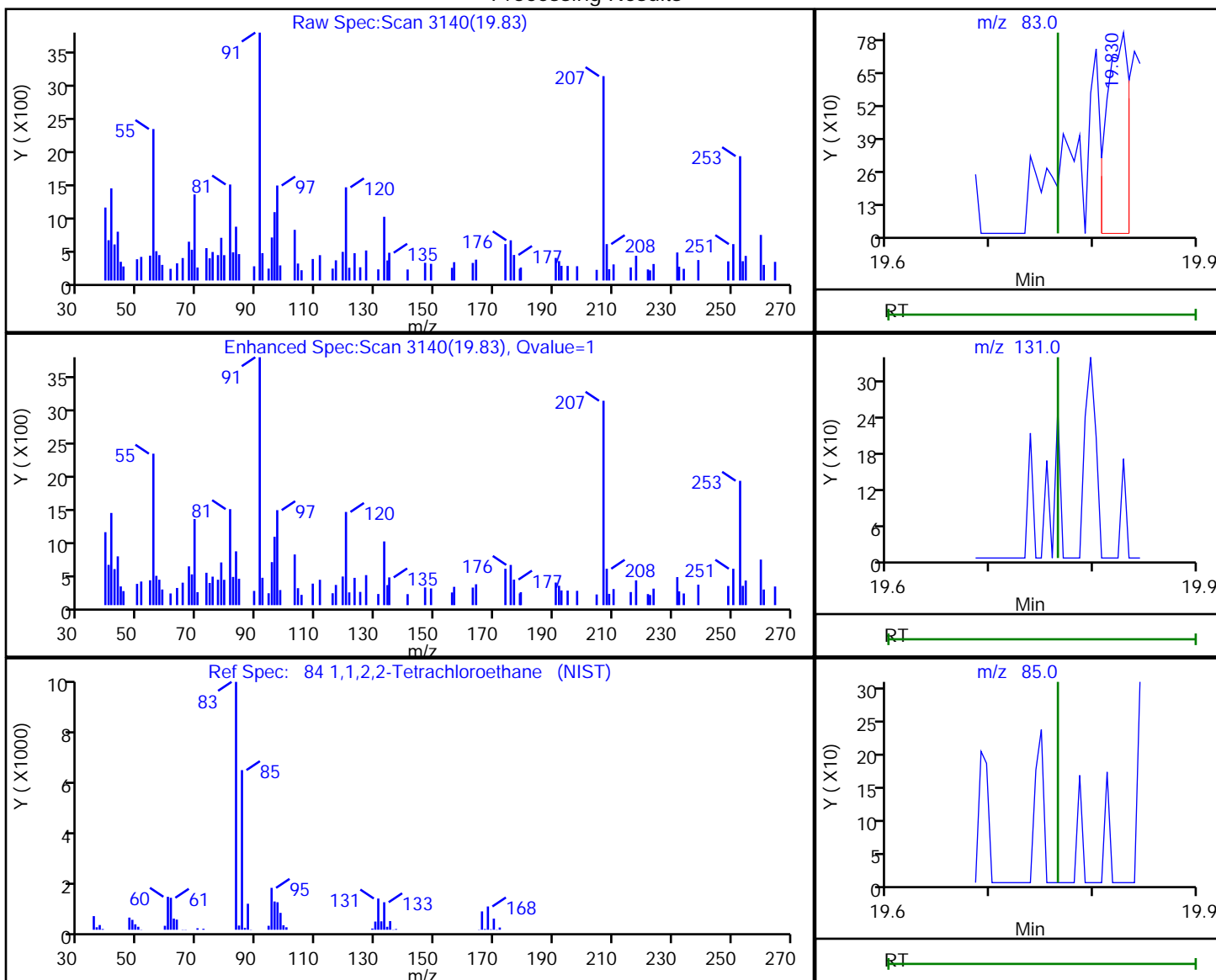


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.83 | 83.00  | 1175     | 0.008041 |
| 19.77 | 131.00 | 0        |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 17:22:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

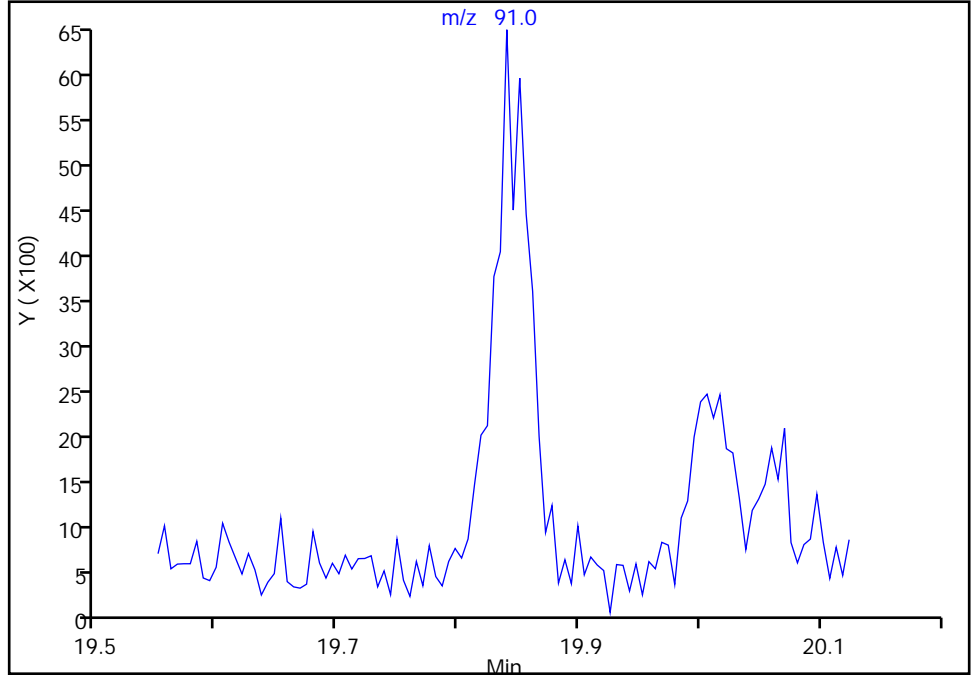
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

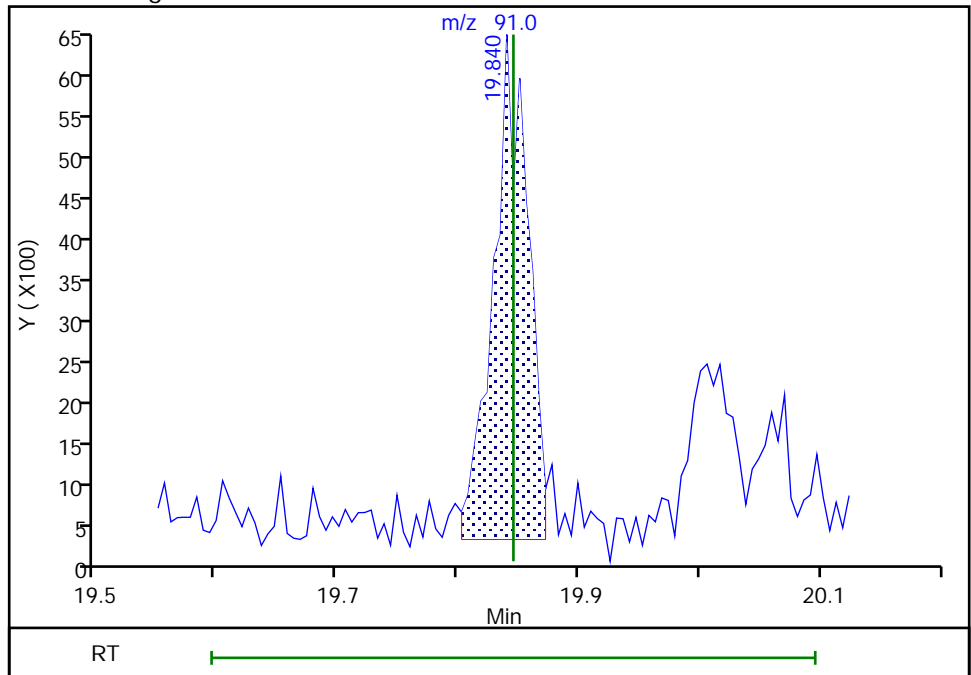
Not Detected  
Expected RT: 19.85

Processing Integration Results



Manual Integration Results

RT: 19.84  
Area: 12287  
Amount: 0.038527  
Amount Units: ppb v/v



Reviewer: bunmaa, 06-Dec-2018 17:23:06  
Audit Action: Manually Integrated

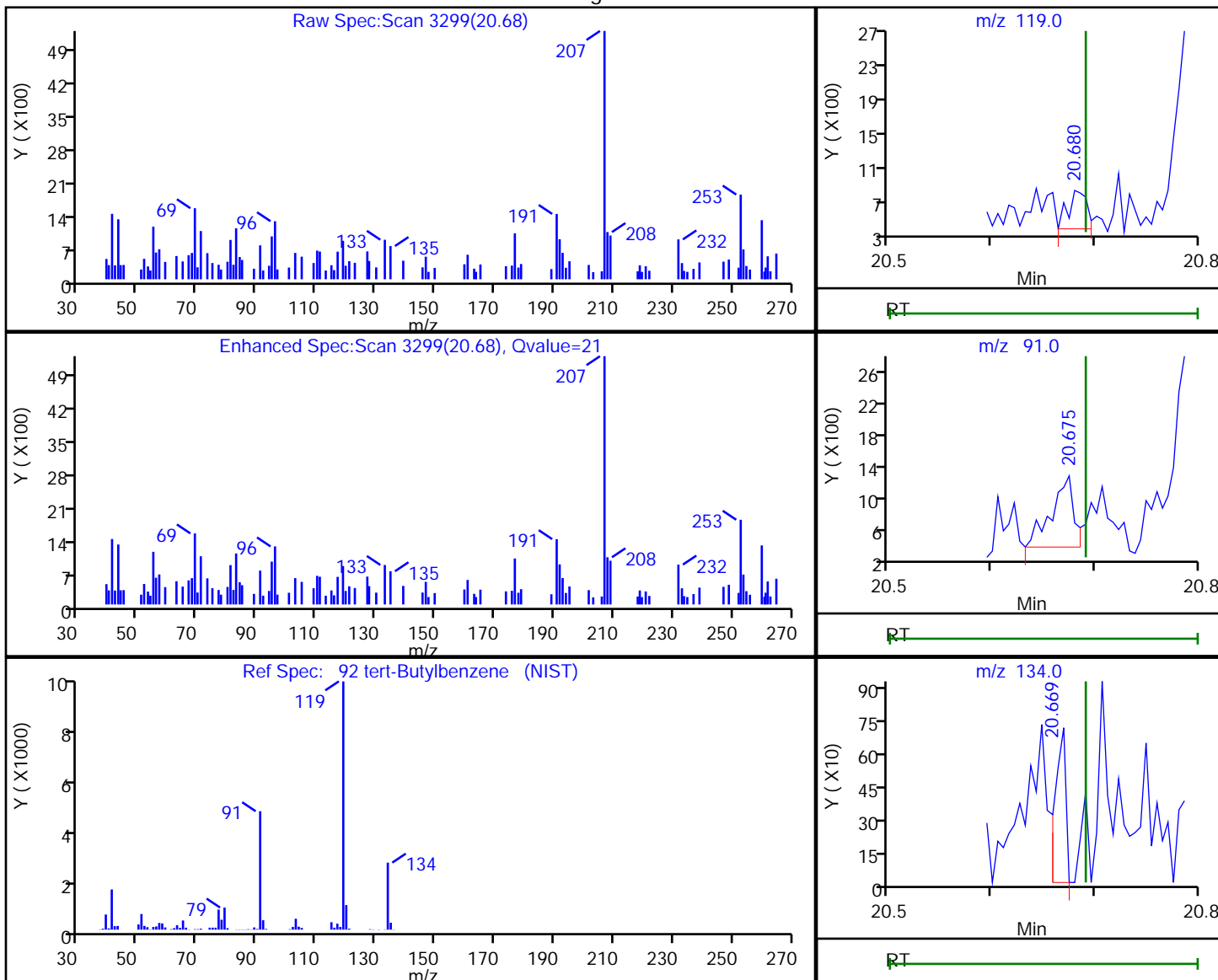
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.68 | 119.00 | 555      | 0.002554 |
| 20.67 | 91.00  | 1304     |          |
| 20.67 | 134.00 | 499      |          |

Reviewer: bunmaa, 06-Dec-2018 17:24:18

Audit Action: Marked Compound Undetected

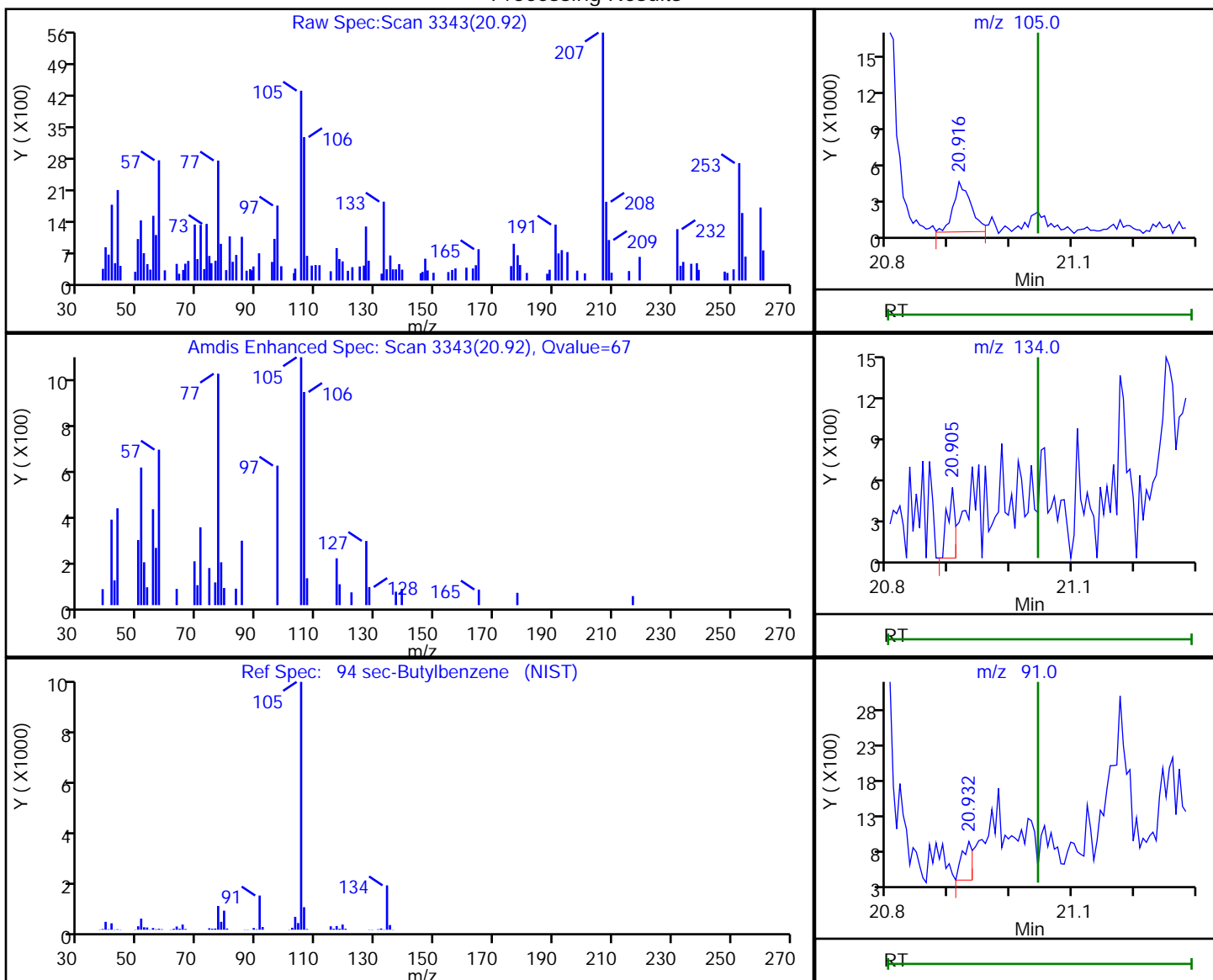
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 8266     | 0.025656 |
| 20.90 | 134.00 | 428      |          |
| 20.93 | 91.00  | 629      |          |

Reviewer: bunmaa, 06-Dec-2018 17:24:30  
 Audit Action: Marked Compound Undetected

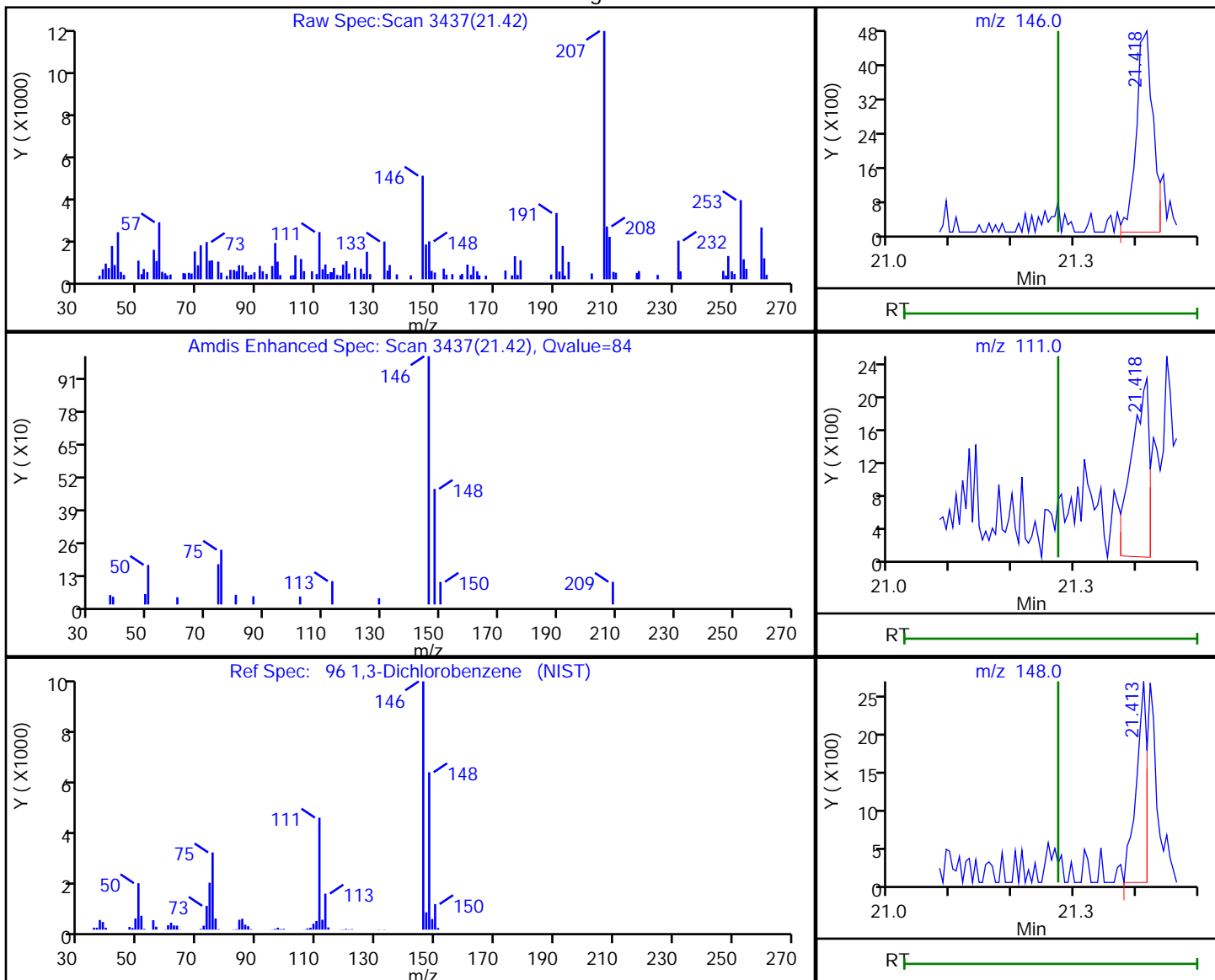
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 8974     | 0.048317 |
| 21.42 | 111.00 | 4226     |          |
| 21.41 | 148.00 | 3136     |          |

Reviewer: bunmaa, 06-Dec-2018 17:24:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

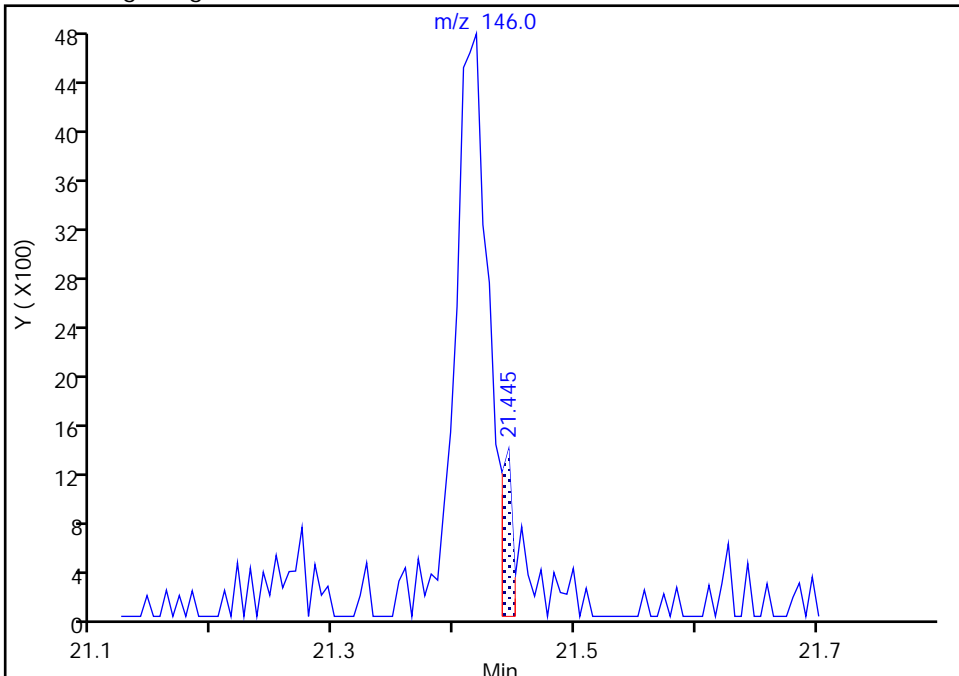
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

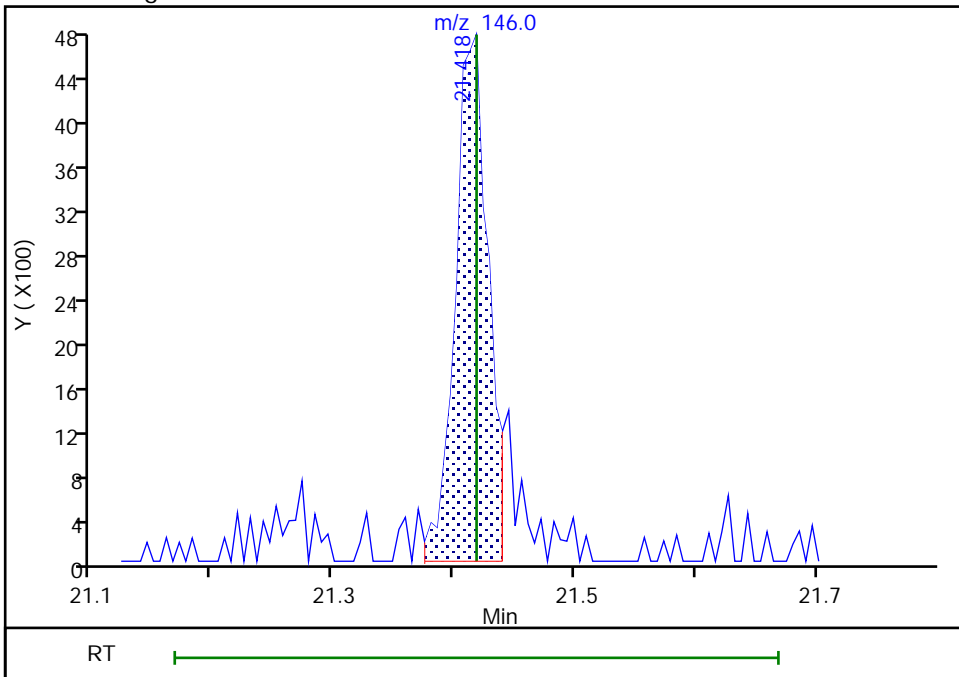
RT: 21.45  
Area: 911  
Amount: 0.005129  
Amount Units: ppb v/v

Processing Integration Results



RT: 21.42  
Area: 8974  
Amount: 0.050527  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 17:24:44  
Audit Action: Assigned Compound ID

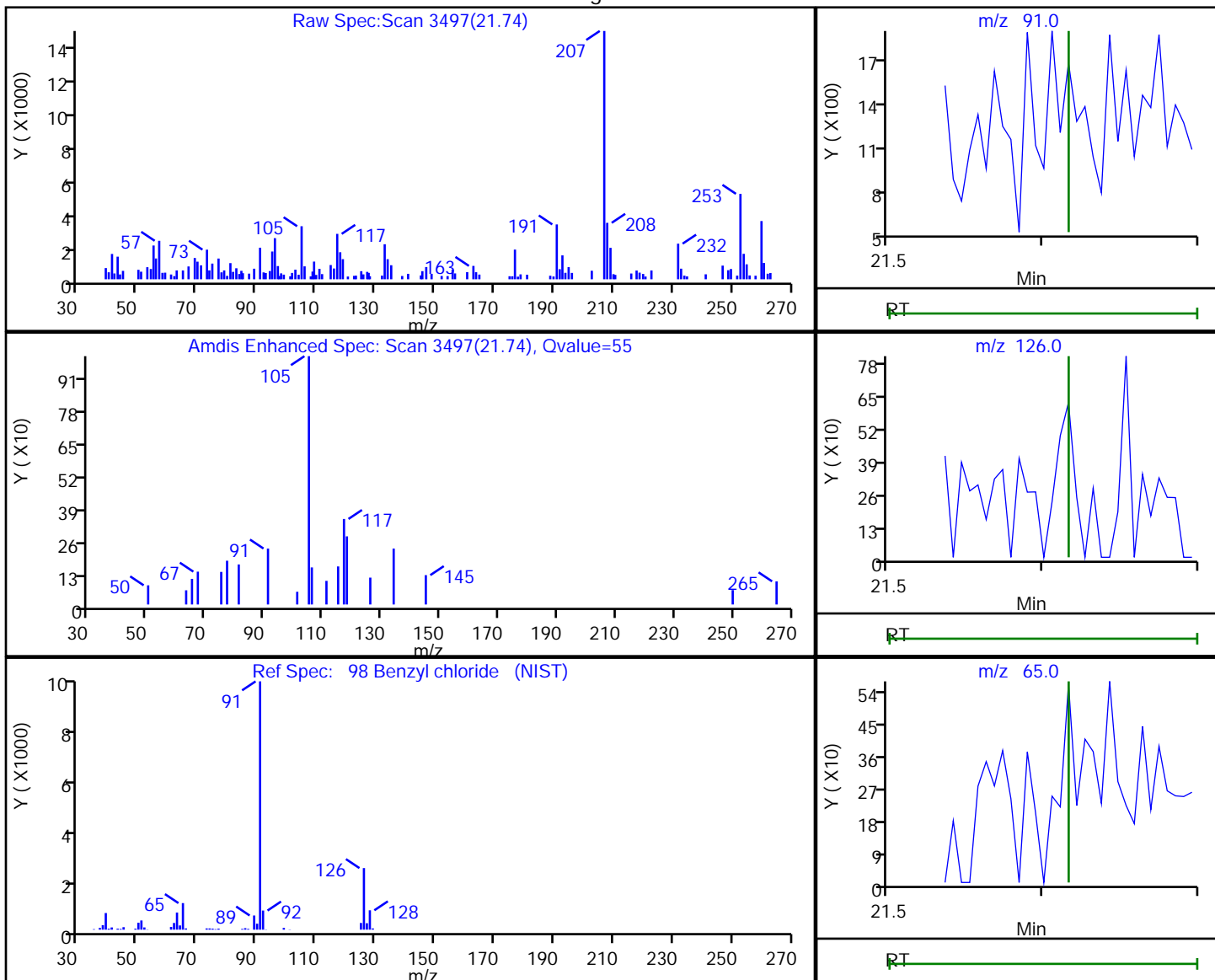
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.74 | 91.00  | 1311     | 0.005980 |
| 21.74 | 126.00 | 252      |          |
| 21.72 | 65.00  | 1346     |          |

Reviewer: bunmaa, 06-Dec-2018 17:32:55  
 Audit Action: Marked Compound Undetected

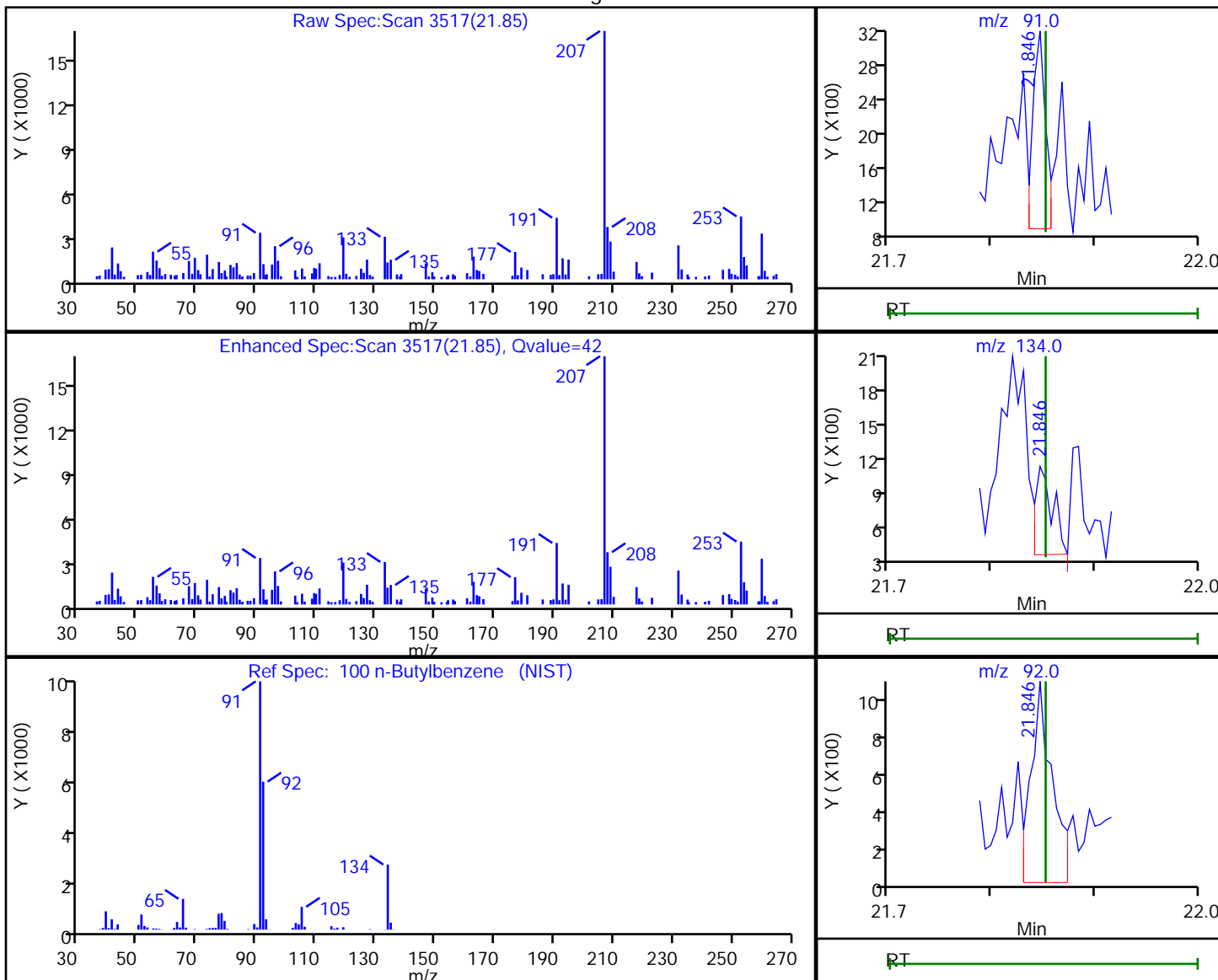
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 1924     | 0.007643 |
| 21.85 | 134.00 | 887      |          |
| 21.85 | 92.00  | 1468     |          |

Reviewer: bunmaa, 06-Dec-2018 17:32:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

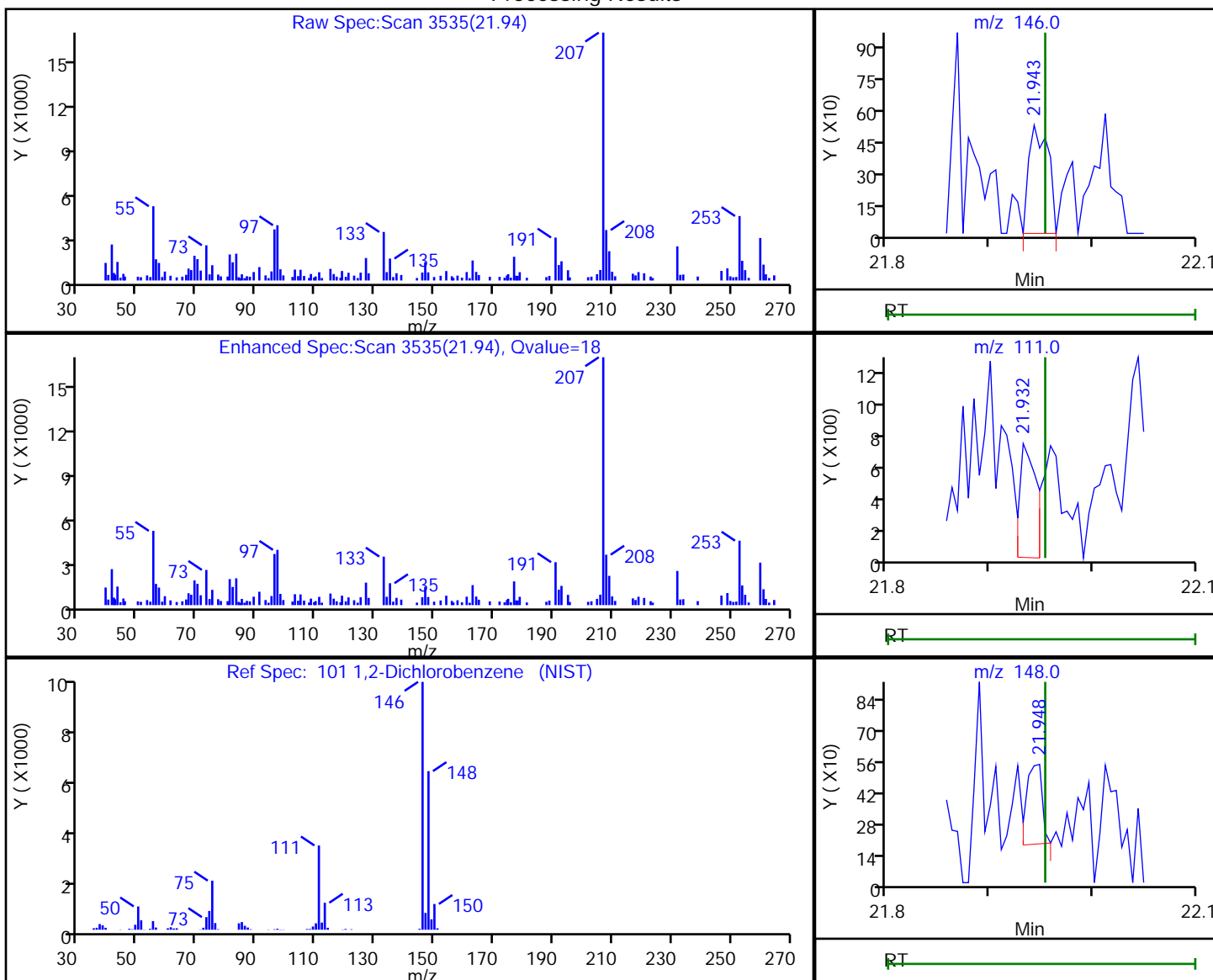


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.94 | 146.00 | 676      | 0.003960 |
| 21.93 | 111.00 | 823      |          |
| 21.95 | 148.00 | 380      |          |

Reviewer: bunmaa, 06-Dec-2018 17:33:08

Audit Action: Marked Compound Undetected

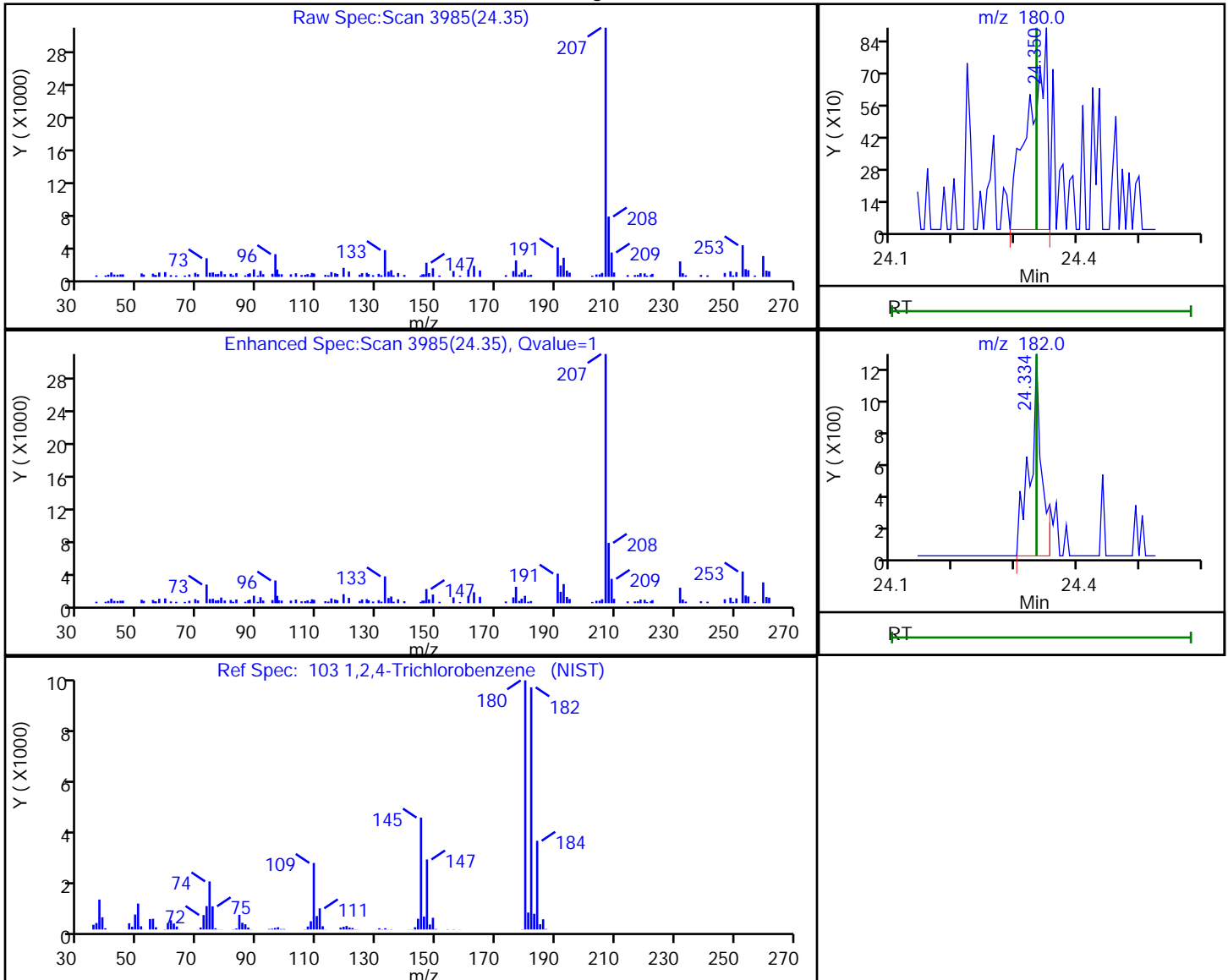
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
 Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.35 | 180.00 | 1774     | 0.013827 |
| 24.33 | 182.00 | 1613     |          |

Reviewer: bunmaa, 06-Dec-2018 17:33:13

Audit Action: Marked Compound Undetected

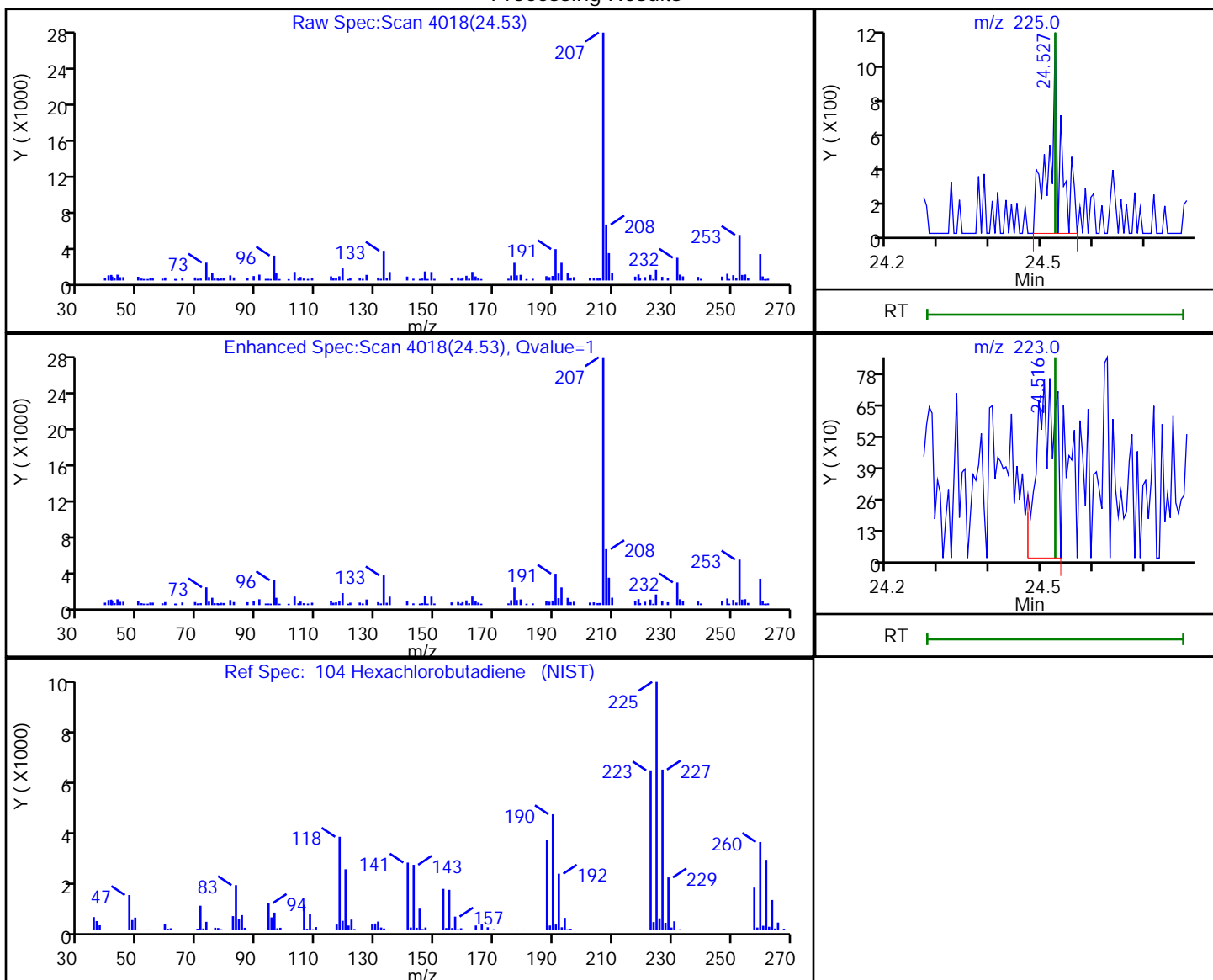
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 1816     | 0.014229 |
| 24.52 | 223.00 | 1886     |          |

Reviewer: bunmaa, 06-Dec-2018 17:33:20

Audit Action: Marked Compound Undetected

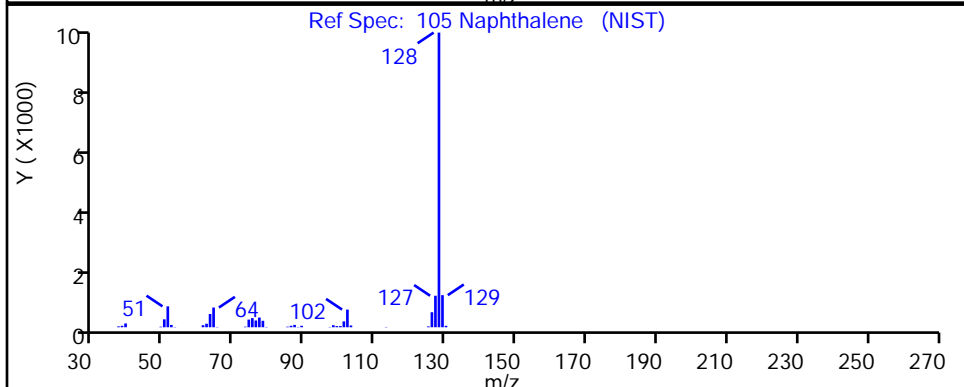
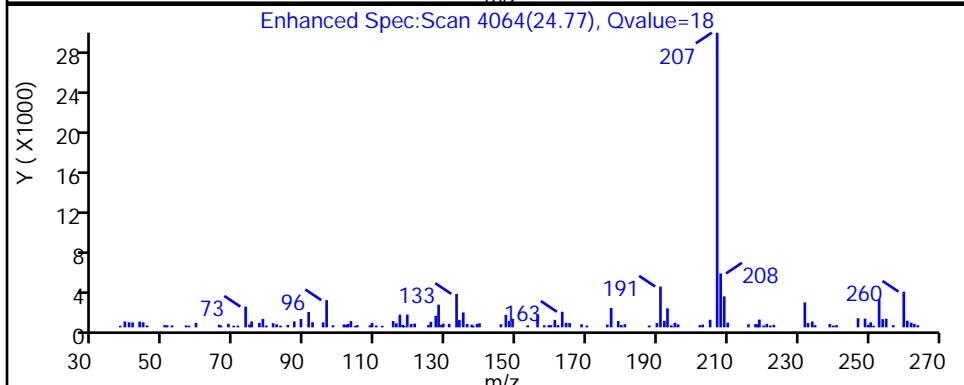
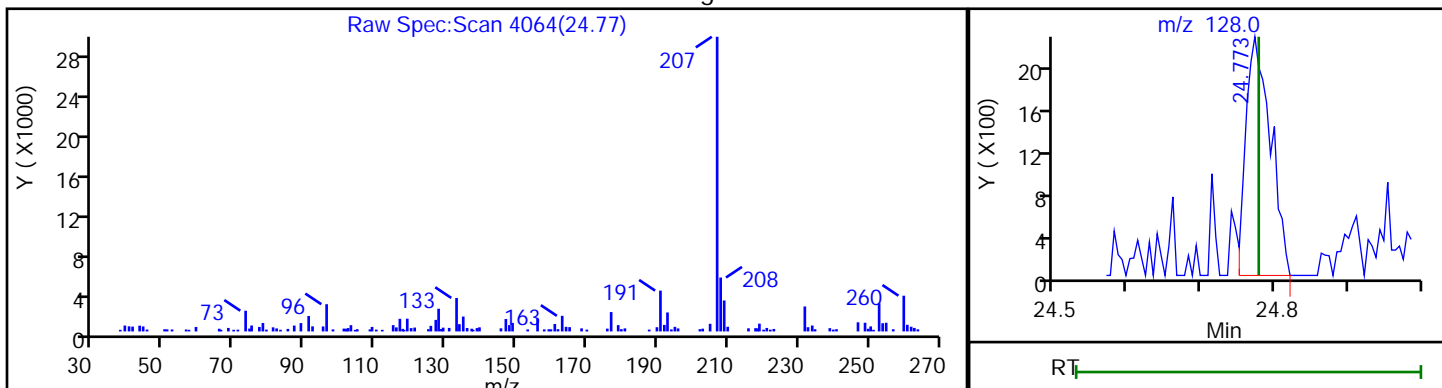
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-018.D  
Injection Date: 06-Dec-2018 04:21:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ert ALS Bottle#: 18 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.77 | 128.00 | 5271     | 0.021191 |

Reviewer: bunmaa, 06-Dec-2018 17:33:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 5.0    | U | 5.0  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 5.0    | U | 5.0  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 2.0    | U | 2.0  |
| 74-87-3   | Chloromethane                    | 50.49            | 5.0    | U | 5.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.0    | U | 5.0  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.78   | U | 0.78 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 2.0    | U | 2.0  |
| 74-83-9   | Bromomethane                     | 94.94            | 2.0    | U | 2.0  |
| 75-00-3   | Chloroethane                     | 64.52            | 5.0    | U | 5.0  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 2.0    | U | 2.0  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 2.0    | U | 2.0  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 2.0    | U | 2.0  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.35   | U | 0.35 |
| 67-64-1   | Acetone                          | 58.08            | 130    | D | 50   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 50     | U | 50   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 5.0    | U | 5.0  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 5.0    | U | 5.0  |
| 75-09-2   | Methylene Chloride               | 84.93            | 5.0    | U | 5.0  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 50     | U | 50   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 2.0    | U | 2.0  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 2.0    | U | 2.0  |
| 110-54-3  | n-Hexane                         | 86.17            | 2.0    | U | 2.0  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 2.0    | U | 2.0  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 5.0    | U | 5.0  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.50   | U | 0.50 |
| 67-66-3   | Chloroform                       | 119.38           | 2.0    | U | 2.0  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 50     | U | 50   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 2.0    | U | 2.0  |
| 110-82-7  | Cyclohexane                      | 84.16            | 2.0    | U | 2.0  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.35   | U | 0.35 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 2.0    | U | 2.0  |
| 71-43-2   | Benzene                          | 78.11            | 2.0    | U | 2.0  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 2.0    | U | 2.0  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | <i>n</i> -Heptane                                | 100.21           | 2.0    | U | 2.0  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.35   | U | 0.35 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 5.0    | U | 5.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 2.0    | U | 2.0  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 50     | U | 50   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 2.0    | U | 2.0  |
| 10061-01-5  | <i>cis</i> -1,3-Dichloropropene                  | 110.97           | 2.0    | U | 2.0  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 5.0    | U | 5.0  |
| 108-88-3    | Toluene  | 92.14            | 2.0    | U | 2.0  |
| 10061-02-6  | <i>trans</i> -1,3-Dichloropropene                | 110.97           | 2.0    | U | 2.0  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 2.0    | U | 2.0  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 2.0    | U | 2.0  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 5.0    | U | 5.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 2.0    | U | 2.0  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 2.0    | U | 2.0  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 2.0    | U | 2.0  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 2.0    | U | 2.0  |
| 179601-23-1 | <i>m,p</i> -Xylene                               | 106.17           | 8.8    | D | 5.0  |
| 95-47-6     | <i>o</i> -Xylene                                 | 106.17           | 3.0    | D | 2.0  |
| 100-42-5    | Styrene  | 104.15           | 2.0    | U | 2.0  |
| 75-25-2     | Bromoform  | 252.75           | 2.0    | U | 2.0  |
| 98-82-8     | Cumene   | 120.19           | 2.0    | U | 2.0  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 2.0    | U | 2.0  |
| 103-65-1    | <i>n</i> -Propylbenzene                          | 120.19           | 2.0    | U | 2.0  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 2.0    | U | 2.0  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 2.0    | U | 2.0  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 2.0    | U | 2.0  |
| 98-06-6     | <i>tert</i> -Butylbenzene                        | 134.22           | 2.0    | U | 2.0  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 2.0    | U | 2.0  |
| 135-98-8    | <i>sec</i> -Butylbenzene                         | 134.22           | 2.0    | U | 2.0  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 2.0    | U | 2.0  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 2.0    | U | 2.0  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 2.0    | U | 2.0  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.  | COMPOUND NAME                 | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|-------------------------------|------------------|--------|---|-----|--|
| 100-44-7 | <i>Benzyl chloride</i>        | 126.58           | 2.0    | U | 2.0 |  |
| 104-51-8 | <i>n-Butylbenzene</i>         | 134.22           | 2.0    | U | 2.0 |  |
| 95-50-1  | <i>1,2-Dichlorobenzene</i>    | 147.00           | 2.0    | U | 2.0 |  |
| 120-82-1 | <i>1,2,4-Trichlorobenzene</i> | 181.45           | 5.0    | U | 5.0 |  |
| 87-68-3  | <i>Hexachlorobutadiene</i>    | 260.76           | 2.0    | U | 2.0 |  |
| 91-20-3  | <i>Naphthalene</i>            | 128.17           | 5.0    | U | 5.0 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 25     | U | 25  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 18     | U | 18  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 14     | U | 14  |
| 74-87-3   | Chloromethane                    | 50.49            | 10     | U | 10  |
| 106-97-8  | n-Butane                         | 58.12            | 12     | U | 12  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 2.0    | U | 2.0 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 4.4    | U | 4.4 |
| 74-83-9   | Bromomethane                     | 94.94            | 7.8    | U | 7.8 |
| 75-00-3   | Chloroethane                     | 64.52            | 13     | U | 13  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 8.7    | U | 8.7 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 11     | U | 11  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 15     | U | 15  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 1.4    | U | 1.4 |
| 67-64-1   | Acetone                          | 58.08            | 310    | D | 120 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 120    | U | 120 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 16     | U | 16  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 16     | U | 16  |
| 75-09-2   | Methylene Chloride               | 84.93            | 17     | U | 17  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 150    | U | 150 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 7.2    | U | 7.2 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 7.9    | U | 7.9 |
| 110-54-3  | n-Hexane                         | 86.17            | 7.0    | U | 7.0 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 8.1    | U | 8.1 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 15     | U | 15  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 2.0    | U | 2.0 |
| 67-66-3   | Chloroform                       | 119.38           | 9.8    | U | 9.8 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 150    | U | 150 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 11     | U | 11  |
| 110-82-7  | Cyclohexane                      | 84.16            | 6.9    | U | 6.9 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 2.2    | U | 2.2 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 9.3    | U | 9.3 |
| 71-43-2   | Benzene                          | 78.11            | 6.4    | U | 6.4 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 8.1    | U | 8.1 |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 8.2    | U | 8.2 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 1.9    | U | 1.9 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 20     | U | 20  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 9.2    | U | 9.2 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 180    | U | 180 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 13     | U | 13  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 9.1    | U | 9.1 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 20     | U | 20  |
| 108-88-3    | Toluene  | 92.14            | 7.5    | U | 7.5 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 9.1    | U | 9.1 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 11     | U | 11  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 14     | U | 14  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 20     | U | 20  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 17     | U | 17  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 15     | U | 15  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 9.2    | U | 9.2 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 8.7    | U | 8.7 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 38     | D | 22  |
| 95-47-6     | o-Xylene   | 106.17           | 13     | D | 8.7 |
| 100-42-5    | Styrene  | 104.15           | 8.5    | U | 8.5 |
| 75-25-2     | Bromoform  | 252.75           | 21     | U | 21  |
| 98-82-8     | Cumene   | 120.19           | 9.8    | U | 9.8 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 14     | U | 14  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 9.8    | U | 9.8 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 9.8    | U | 9.8 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 9.8    | U | 9.8 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 10     | U | 10  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 11     | U | 11  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 9.8    | U | 9.8 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 11     | U | 11  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 11     | U | 11  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 12     | U | 12  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 12     | U | 12  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 DL Lab Sample ID: 200-46353-2 DL  
 Matrix: Air Lab File ID: 33574-06.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 20 (mL) Date Analyzed: 12/07/2018 16:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.  | COMPOUND NAME                 | MOLECULAR WEIGHT | RESULT | Q | RL |  |
|----------|-------------------------------|------------------|--------|---|----|--|
| 100-44-7 | <i>Benzyl chloride</i>        | 126.58           | 10     | U | 10 |  |
| 104-51-8 | <i>n-Butylbenzene</i>         | 134.22           | 11     | U | 11 |  |
| 95-50-1  | <i>1,2-Dichlorobenzene</i>    | 147.00           | 12     | U | 12 |  |
| 120-82-1 | <i>1,2,4-Trichlorobenzene</i> | 181.45           | 37     | U | 37 |  |
| 87-68-3  | <i>Hexachlorobutadiene</i>    | 260.76           | 21     | U | 21 |  |
| 91-20-3  | <i>Naphthalene</i>            | 128.17           | 26     | U | 26 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D  
 Lims ID: 200-46353-A-2  
 Client ID: IA-1\_20181120  
 Sample Type: Client  
 Inject. Date: 07-Dec-2018 16:45:30 ALS Bottle#: 10 Worklist Smp#: 7  
 Purge Vol: 200.000 mL Dil. Factor: 10.0000  
 Sample Info: 200-0033574-007  
 Misc. Info.: 46353-7  
 Operator ID: ggg Instrument ID: CHC.i  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0324

First Level Reviewer: tobere

Date: 10-Dec-2018 15:05:33

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.032     | 3.031         | 0.001         | 50  | 1284     | 0.0296            |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.079         |               |     |          | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.287         |               |     |          | ND                |       |
| 5 Chloromethane               | 50  |           | 3.416         |               |     |          | ND                |       |
| 6 Butane                      | 43  | 3.624     | 3.618         | 0.006         | 88  | 1632     | 0.1332            | M     |
| 7 Vinyl chloride              | 62  |           | 3.656         |               |     |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.730         |               |     |          | ND                |       |
| 10 Bromomethane               | 94  |           | 4.398         |               |     |          | ND                |       |
| 11 Chloroethane               | 64  |           | 4.632         |               |     |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 5.022         |               |     |          | ND                |       |
| 14 Trichlorofluoromethane     | 101 |           | 5.134         |               |     |          | ND                |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 6.223         |               |     |          | ND                |       |
| 21 1,1-Dichloroethene         | 96  |           | 6.244         |               |     |          | ND                |       |
| 22 Acetone                    | 43  | 6.468     | 6.468         | 0.000         | 100 | 228680   | 13.0              |       |
| 23 Carbon disulfide           | 76  |           | 6.628         |               |     |          | ND                |       |
| 24 Isopropyl alcohol          | 45  |           | 6.788         |               |     |          | ND                |       |
| 25 3-Chloro-1-propene         | 41  |           | 7.039         |               |     |          | ND                |       |
| 27 Methylene Chloride         | 49  |           | 7.333         |               |     |          | ND                |       |
| 28 2-Methyl-2-propanol        | 59  |           | 7.568         |               |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 7.749         |               |     |          | ND                |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 7.781         |               |     |          | ND                |       |
| 33 Hexane                     | 57  |           | 8.192         |               |     |          | ND                |       |
| 34 1,1-Dichloroethane         | 63  |           | 8.646         |               |     |          | ND                |       |
| 37 cis-1,2-Dichloroethene     | 96  |           | 9.766         |               |     |          | ND                |       |
| 38 2-Butanone (MEK)           | 72  |           | 9.804         |               |     |          | ND                |       |
| * 40 Chlorobromomethane       | 128 | 10.220    | 10.225        | -0.005        | 86  | 221752   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 10.231        |               |     |          | ND                |       |
| 42 Chloroform                 | 83  | 10.375    | 10.370        | 0.005         | 92  | 2070     | 0.0711            |       |
| 43 Cyclohexane                | 84  |           | 10.620        |               |     |          | ND                |       |
| 44 1,1,1-Trichloroethane      | 97  |           | 10.642        |               |     |          | ND                |       |
| 45 Carbon tetrachloride       | 117 |           | 10.898        |               |     |          | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 46 Isooctane                   | 57  |           | 11.346        |               |    |          | ND                |       |
| 47 Benzene                     | 78  | 11.341    | 11.346        | -0.005        | 1  | 1330     | 0.0337            |       |
| 48 1,2-Dichloroethane          | 62  |           | 11.528        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  |           | 11.752        |               |    |          | ND                |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.206    | 12.205        | 0.001         | 96 | 1256820  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 12.675        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 13.219        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 13.417        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 13.449        |               |    |          | ND                |       |
| 58 Dichlorobromomethane        | 83  |           | 13.796        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 14.746        |               |    |          | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 15.023        |               |    |          | ND                |       |
| 65 Toluene                     | 92  | 15.338    | 15.338        | 0.000         | 89 | 2225     | 0.0656            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 15.941        |               |    |          | ND                |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 16.315        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 16.438        |               |    |          | ND                |       |
| 69 2-Hexanone                  | 43  |           | 16.763        |               |    |          | ND                |       |
| 71 Chlorodibromomethane        | 129 |           | 17.078        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 17.334        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 18.242    | 18.241        | 0.001         | 89 | 1235342  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 18.300        |               |    |          | ND                |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.460        | 0.006         | 96 | 13268    | 0.1678            |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.711        | 0.000         | 0  | 25462    | 0.8756            |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549        | 0.000         | 99 | 8641     | 0.3035            |       |
| 80 Styrene                     | 104 |           | 19.602        |               |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 20.035        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 20.259        |               |    |          | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 20.926        |               |    |          | ND                |       |
| 85 N-Propylbenzene             | 91  |           | 21.006        |               |    |          | ND                |       |
| 88 4-Ethyltoluene              | 105 |           | 21.198        |               |    |          | ND                |       |
| 89 2-Chlorotoluene             | 91  |           | 21.203        |               |    |          | ND                |       |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 21.310        |               |    |          | ND                |       |
| 92 tert-Butylbenzene           | 119 |           | 21.807        |               |    |          | ND                |       |
| 93 1,2,4-Trimethylbenzene      | 105 | 21.903    | 21.903        | 0.000         | 88 | 1443     | 0.0180            |       |
| 94 sec-Butylbenzene            | 105 |           | 22.137        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 22.346        |               |    |          | ND                |       |
| 96 1,3-Dichlorobenzene         | 146 | 22.378    | 22.372        | 0.006         | 77 | 552      | 0.0102            |       |
| 97 1,4-Dichlorobenzene         | 146 |           | 22.506        |               |    |          | ND                |       |
| 98 Benzyl chloride             | 91  |           | 22.698        |               |    |          | ND                |       |
| 100 n-Butylbenzene             | 91  |           | 22.911        |               |    |          | ND                |       |
| 101 1,2-Dichlorobenzene        | 146 | 23.029    | 23.029        | 0.000         | 1  | 684      | 0.0130            |       |
| 103 1,2,4-Trichlorobenzene     | 180 | 25.441    | 25.436        | 0.005         | 88 | 1429     | 0.0301            |       |
| 104 Hexachlorobutadiene        | 225 |           | 25.628        |               |    |          | ND                |       |
| 105 Naphthalene                | 128 | 25.889    | 25.884        | 0.005         | 97 | 5049     | 0.0539            | M     |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

Injection Date: 07-Dec-2018 16:45:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Worklist Smp#: 7

Client ID: IA-1\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 10.0000

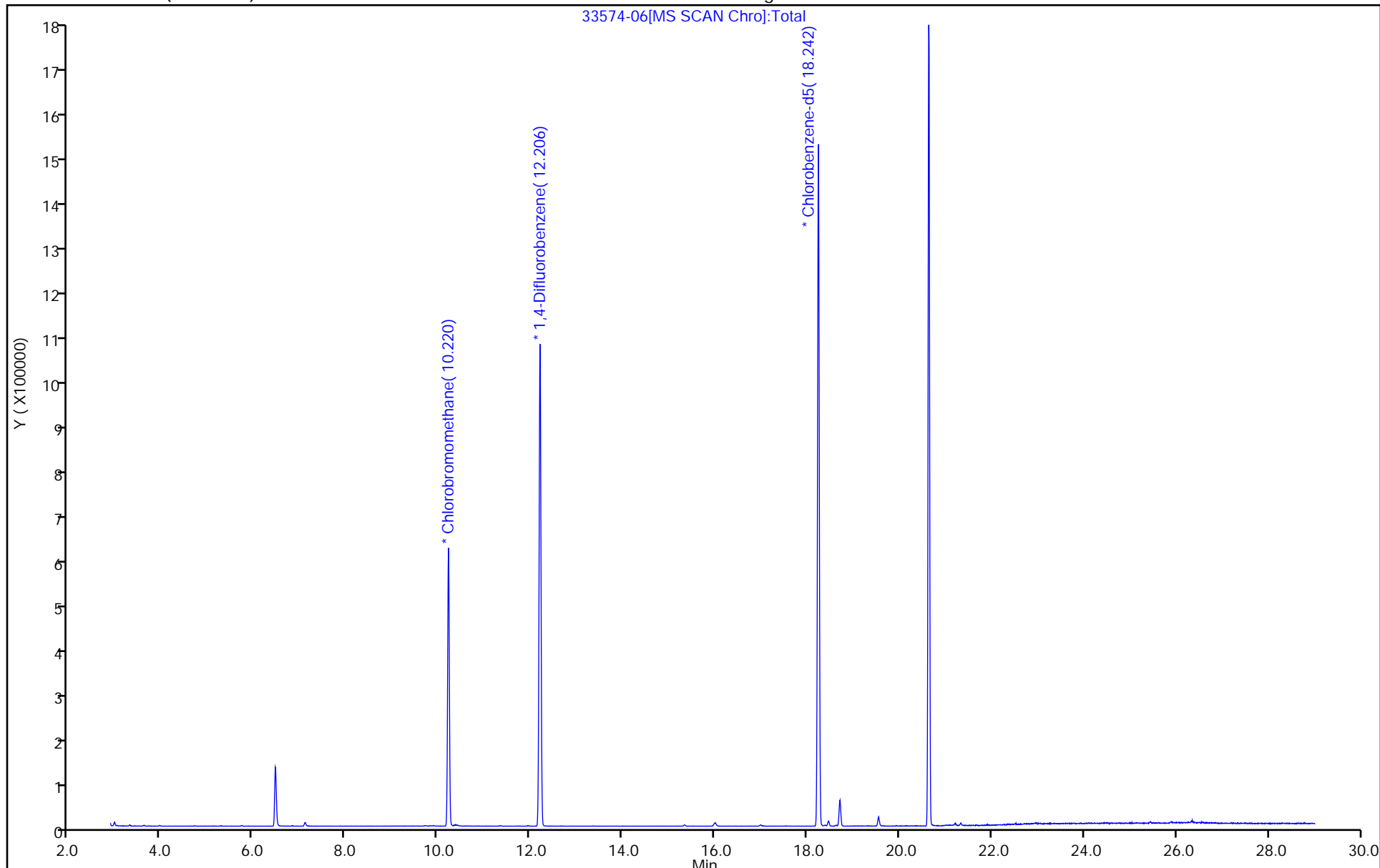
ALS Bottle#: 10

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

Injection Date: 07-Dec-2018 16:45:30

Instrument ID: CHC.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 7

Purge Vol: 200.000 mL

Dil. Factor: 10.0000

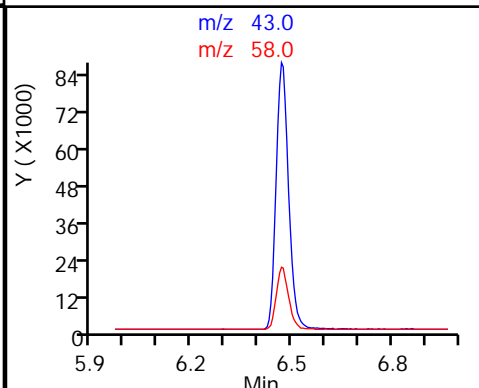
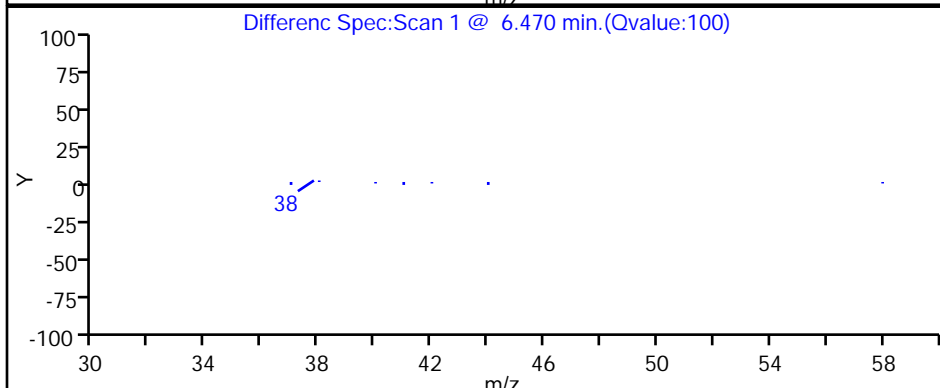
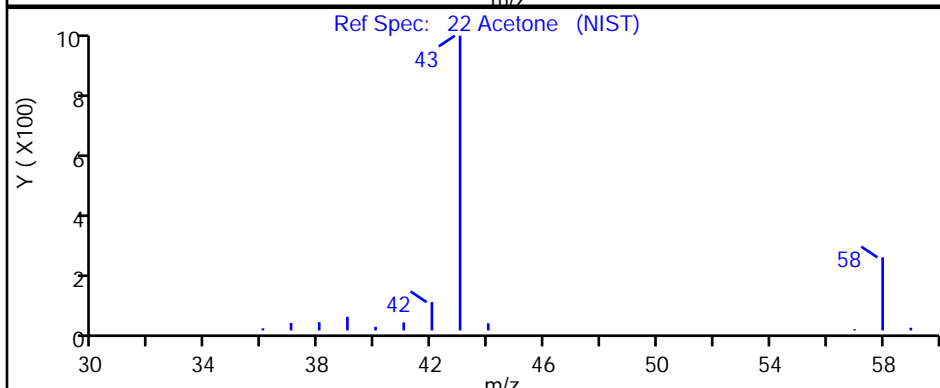
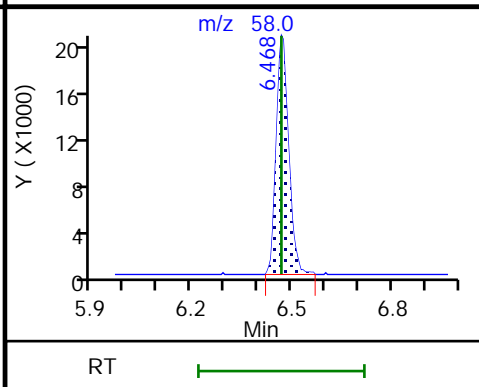
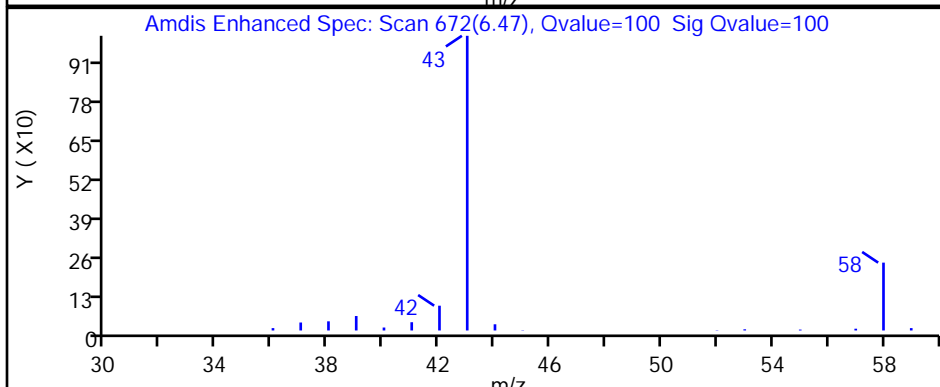
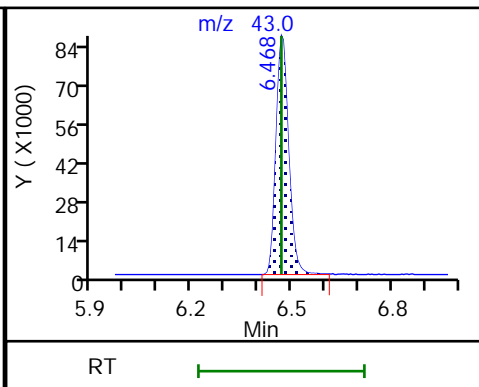
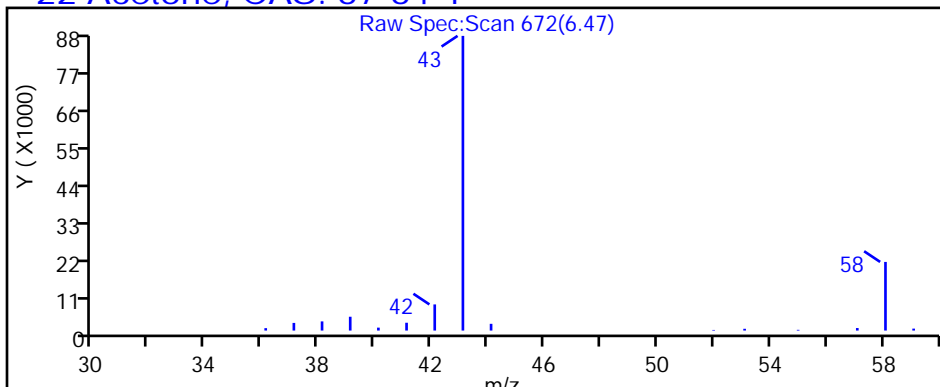
Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

Injection Date: 07-Dec-2018 16:45:30

Instrument ID: CHC.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 7

Purge Vol: 200.000 mL

Dil. Factor: 10.0000

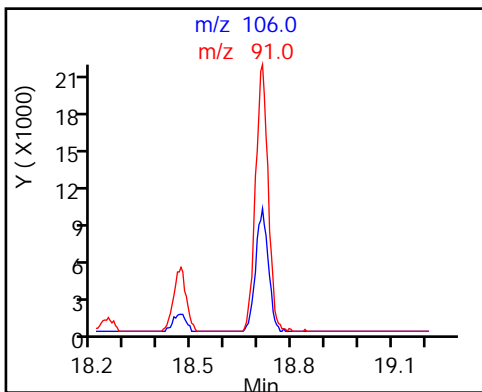
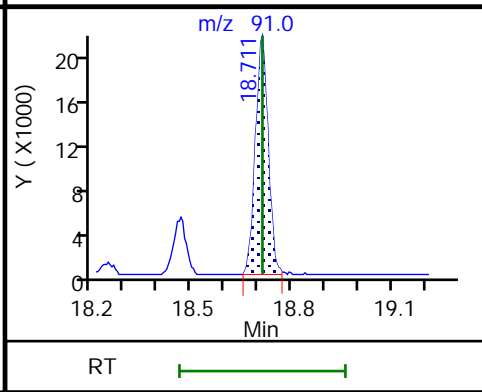
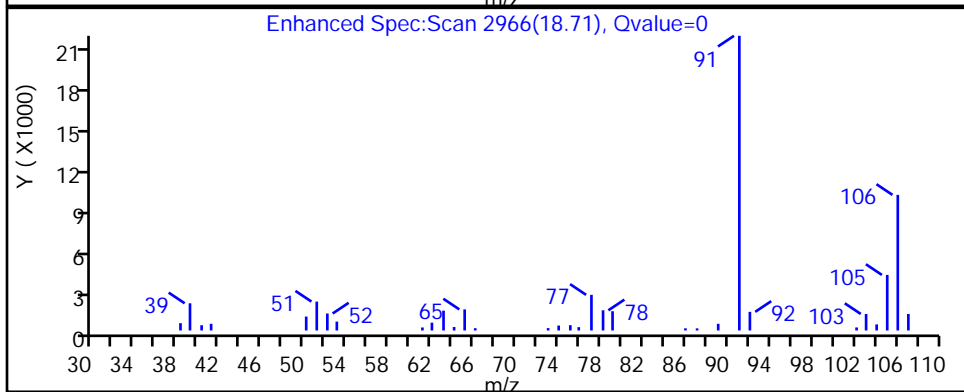
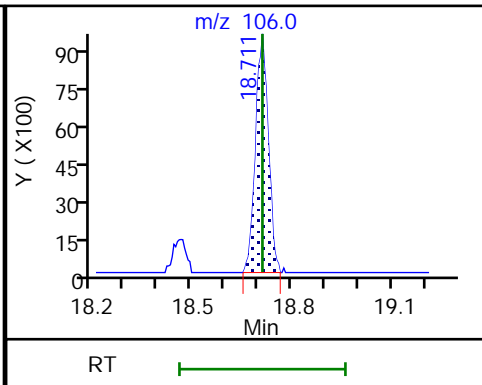
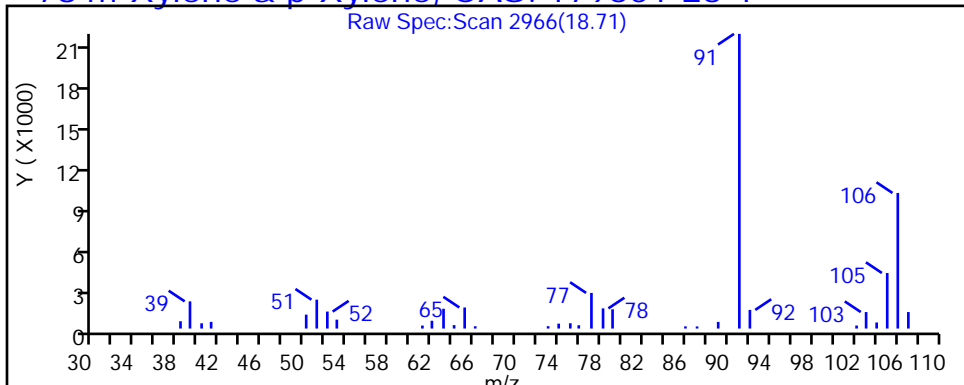
Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

Injection Date: 07-Dec-2018 16:45:30

Instrument ID: CHC.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ggg

ALS Bottle#: 10

Worklist Smp#: 7

Purge Vol: 200.000 mL

Dil. Factor: 10.0000

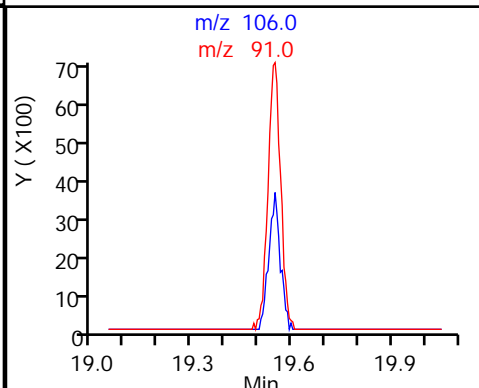
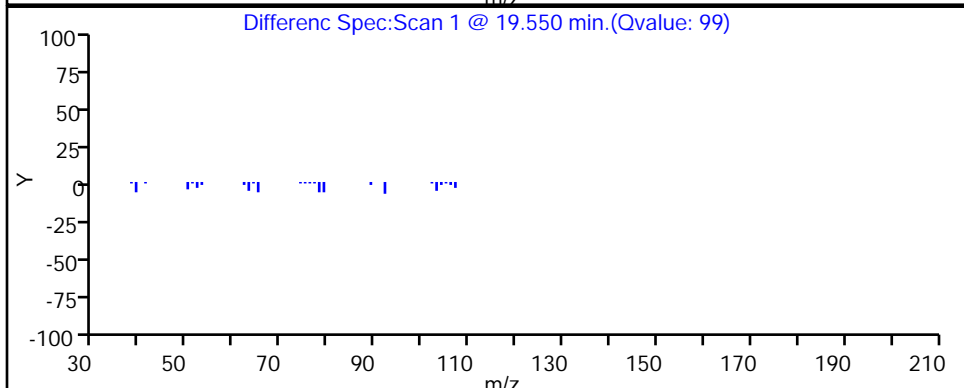
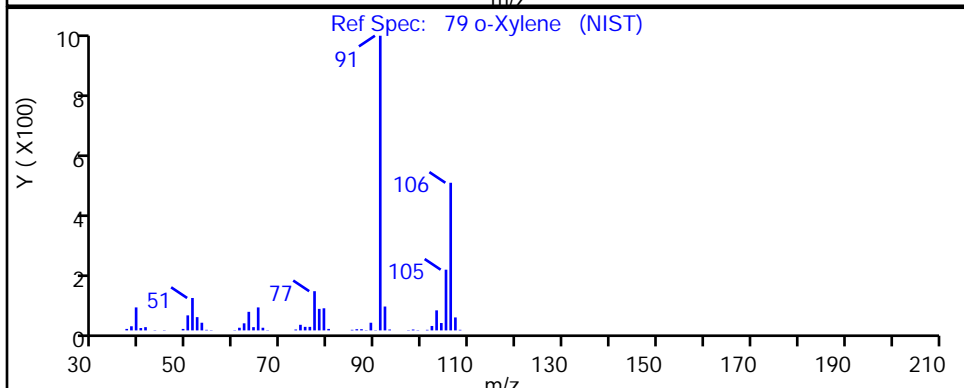
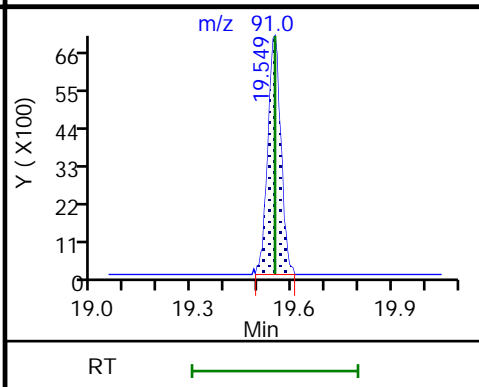
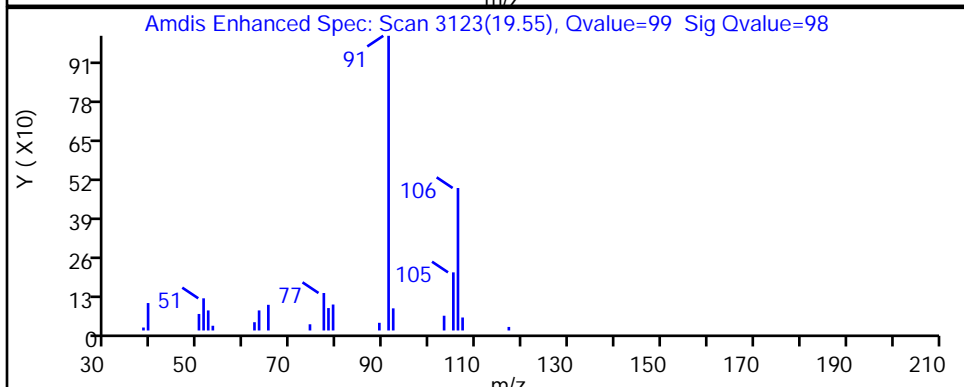
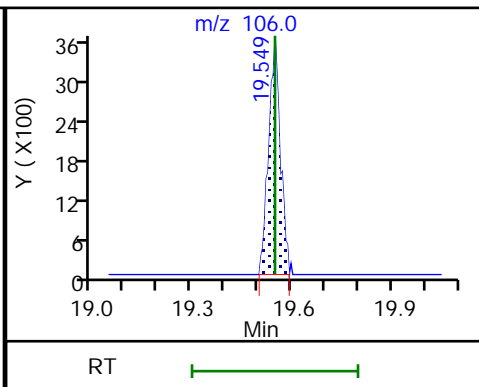
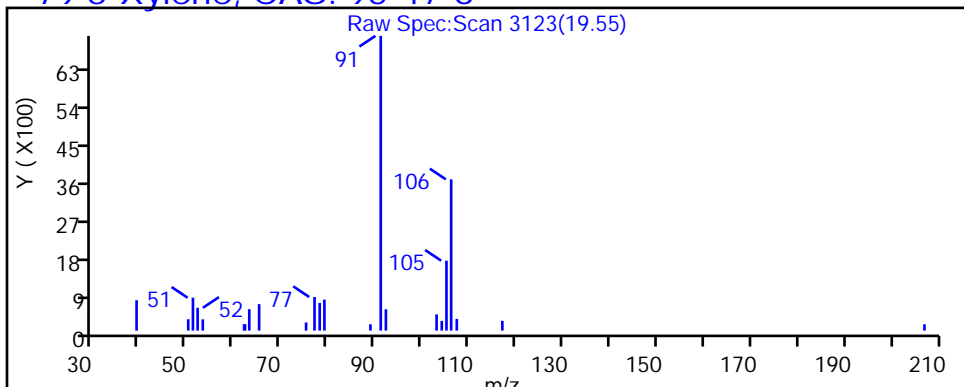
Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

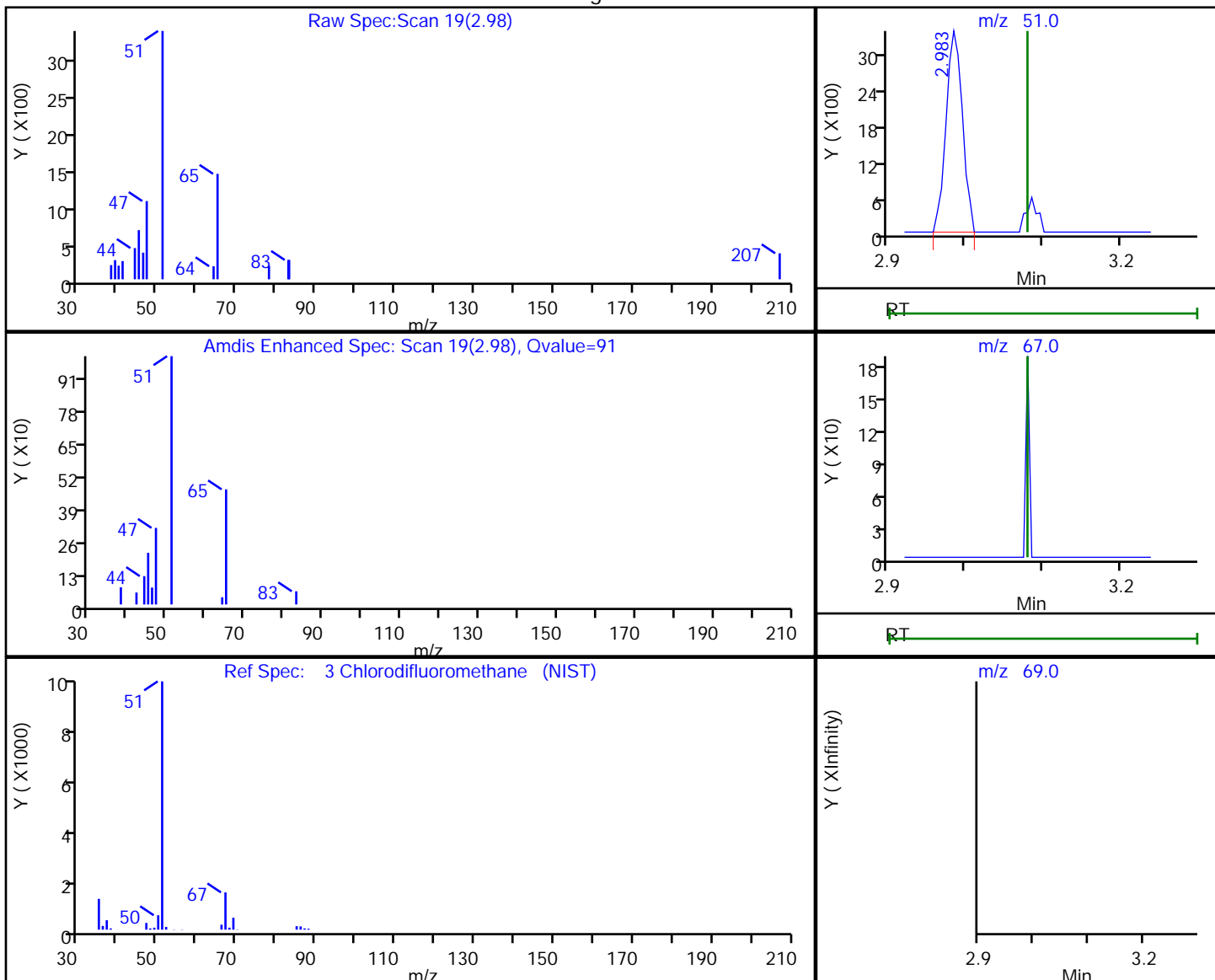


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D  
Injection Date: 07-Dec-2018 16:45:30 Instrument ID: CHC.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 7  
Purge Vol: 200.000 mL Dil. Factor: 10.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 51.00 | 4883     | 0.223046 |
| 3.08 | 67.00 | 0        |          |
| 3.08 | 69.00 | 0        |          |

Reviewer: phamvu, 10-Dec-2018 17:25:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

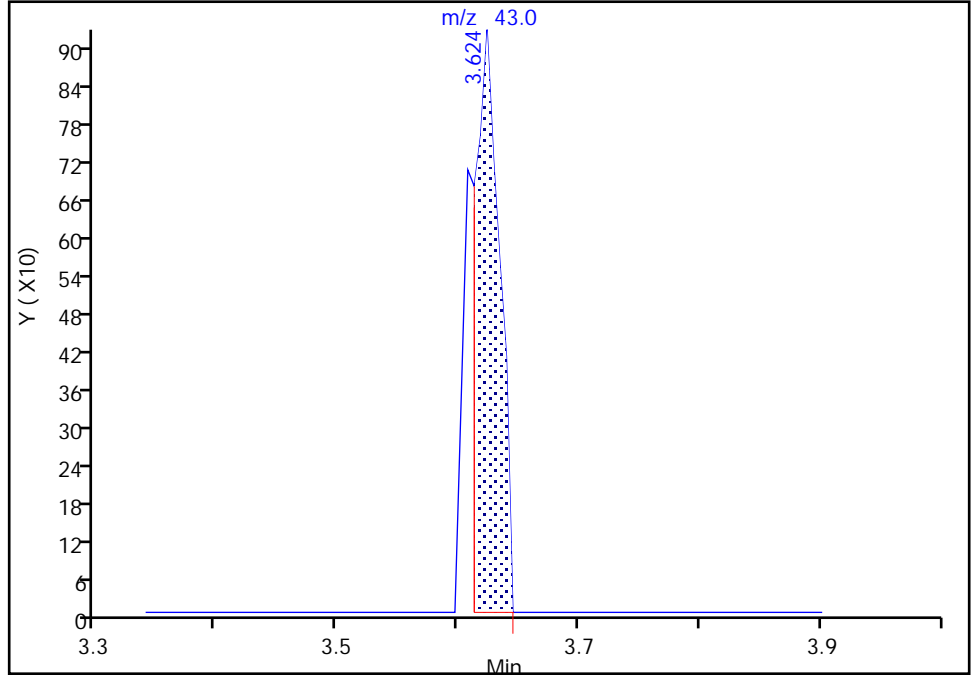
Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D  
Injection Date: 07-Dec-2018 16:45:30 Instrument ID: CHC.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 7  
Purge Vol: 200.000 mL Dil. Factor: 10.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Signal: 1

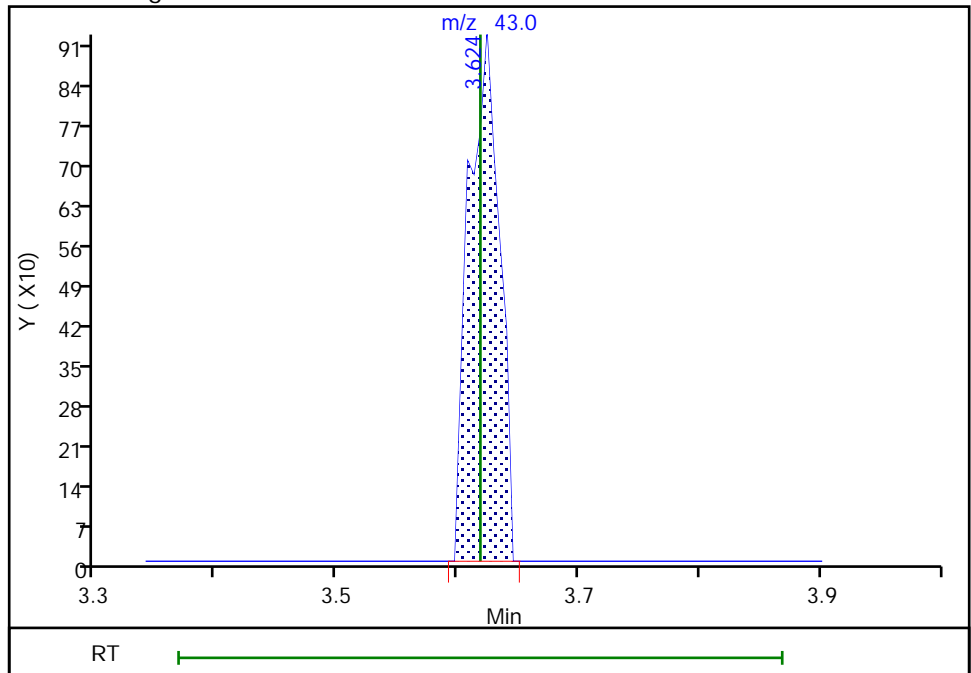
RT: 3.62  
Area: 1295  
Amount: 0.105708  
Amount Units: ppb v/v

Processing Integration Results



RT: 3.62  
Area: 1632  
Amount: 0.133216  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: phamvu, 10-Dec-2018 17:25:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D

Injection Date: 07-Dec-2018 16:45:30

Instrument ID: CHC.i

Lims ID: 200-46353-A-2

Lab Sample ID: 200-46353-2

Client ID: IA-1\_20181120

Operator ID: ggg

ALS Bottle#: 10 Worklist Smp#: 7

Purge Vol: 200.000 mL

Dil. Factor: 10.0000

Method: TO15\_MasterMethod\_(v1)\_CHC.i

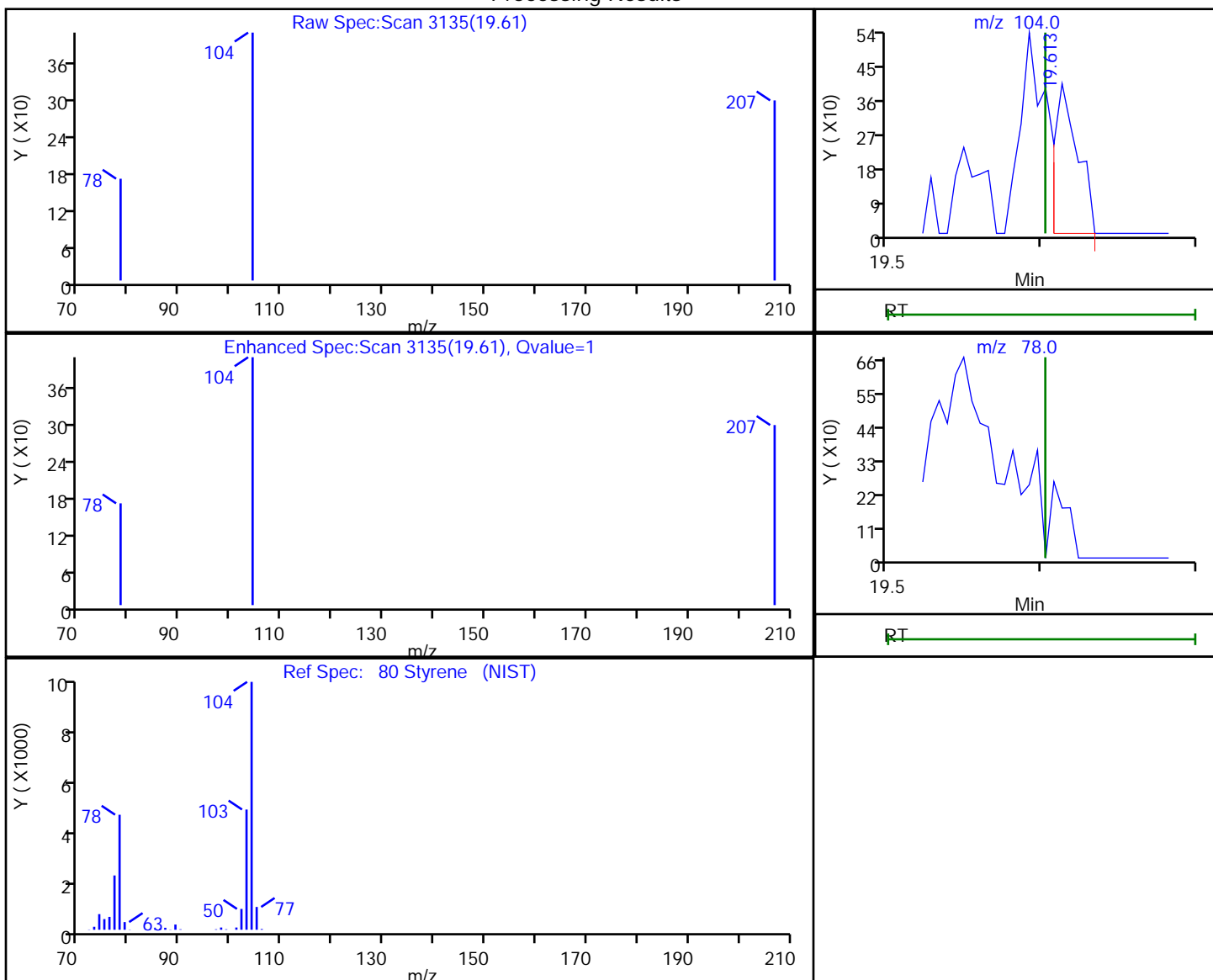
Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.61 | 104.00 | 422      | 0.009601 |
| 19.60 | 78.00  | 0        |          |

Reviewer: phamvu, 10-Dec-2018 17:26:20

Audit Action: Marked Compound Undetected

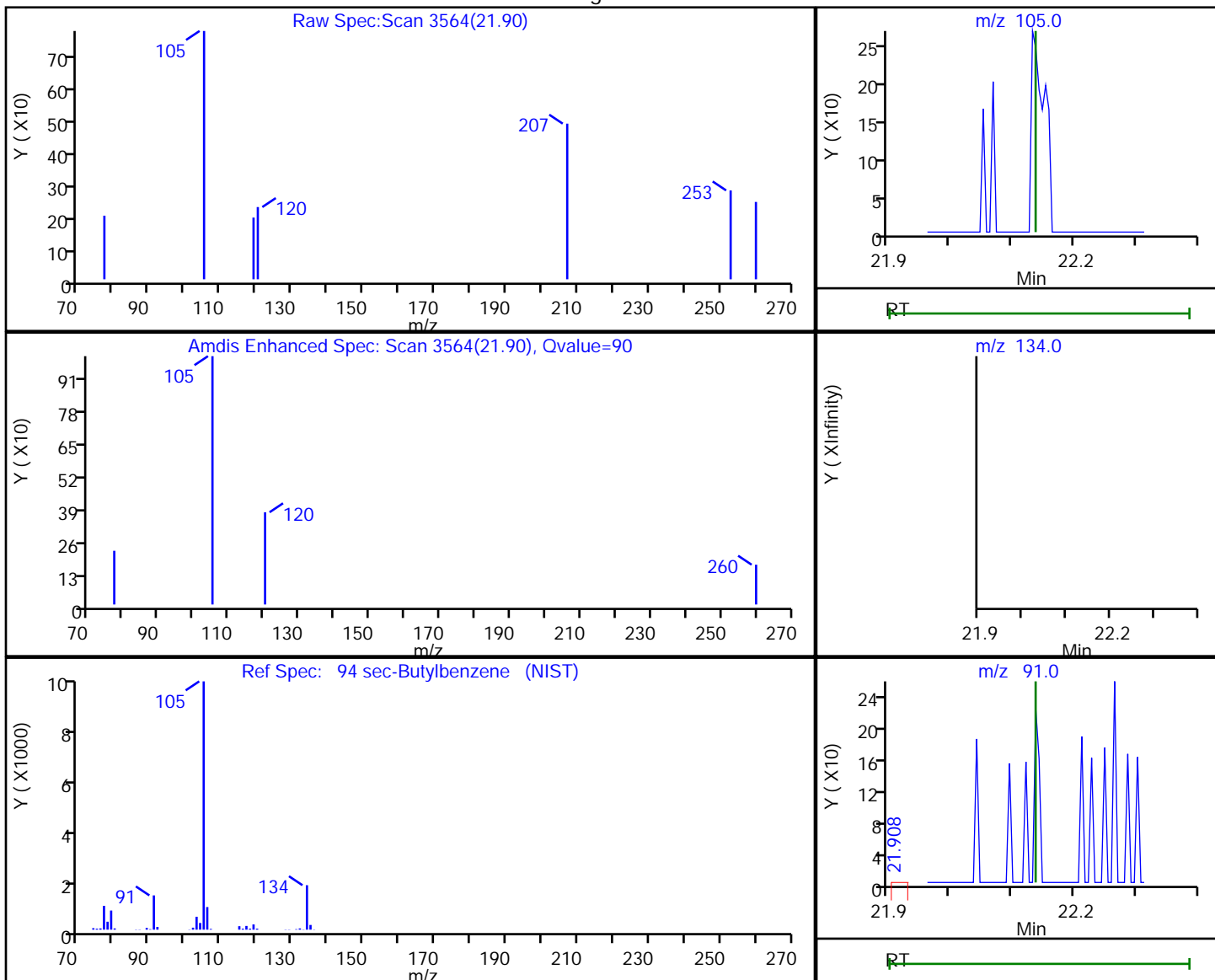
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D  
 Injection Date: 07-Dec-2018 16:45:30 Instrument ID: CHC.i  
 Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
 Client ID: IA-1\_20181120  
 Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 7  
 Purge Vol: 200.000 mL Dil. Factor: 10.0000  
 Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.90 | 105.00 | 1443     | 0.013055 |
| 22.14 | 134.00 | 0        |          |
| 21.91 | 91.00  | 197      |          |

Reviewer: phamvu, 10-Dec-2018 17:26:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

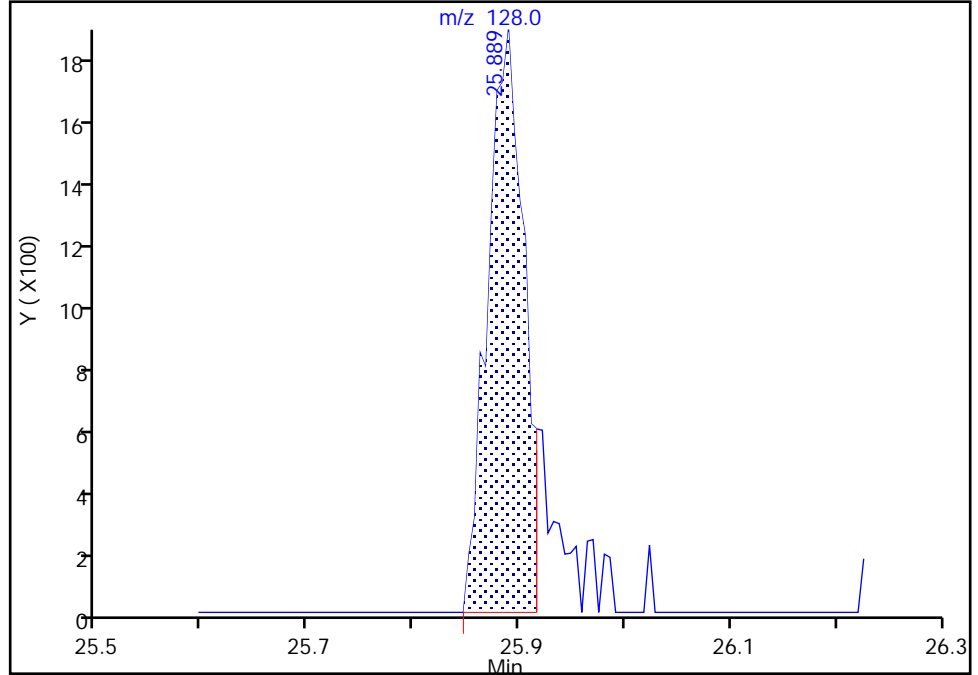
Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-06.D  
Injection Date: 07-Dec-2018 16:45:30 Instrument ID: CHC.i  
Lims ID: 200-46353-A-2 Lab Sample ID: 200-46353-2  
Client ID: IA-1\_20181120  
Operator ID: ggg ALS Bottle#: 10 Worklist Smp#: 7  
Purge Vol: 200.000 mL Dil. Factor: 10.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Signal: 1

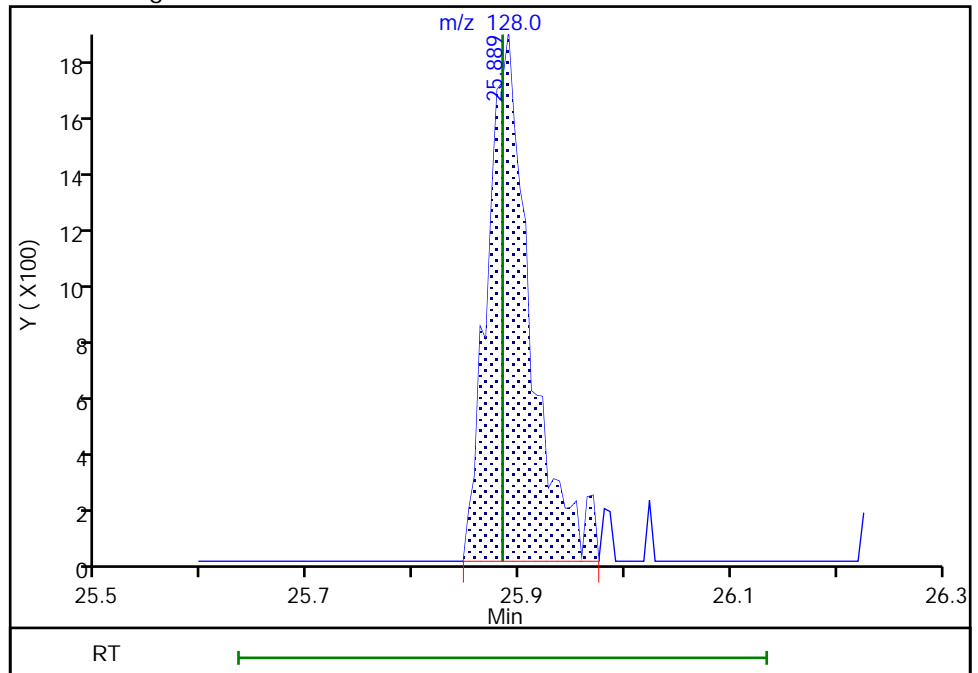
RT: 25.89  
Area: 4288  
Amount: 0.045750  
Amount Units: ppb v/v

Processing Integration Results



RT: 25.89  
Area: 5049  
Amount: 0.053869  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: phamvu, 10-Dec-2018 17:26:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.57   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.55   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.3    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.27   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 5.7    |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.42   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.1    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.30   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.070  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.32   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.39   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.93   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 2.0    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.5    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 13     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 1.5    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 6.2    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.0    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.44   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.5    |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.2    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.5    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Lims ID: 200-46353-A-3  
 Client ID: IA-2\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 05:11:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-019  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:00:16 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: bunmaa

Date: 07-Dec-2018 09:00:16

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011         | 99  | 120873   | 0.5806            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.179         | -0.005         | 96  | 50866    | 0.5740            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |                |     |          | ND                | MU    |
| 5 Chloromethane               | 50  | 3.454     | 3.463         | -0.011         | 99  | 22143    | 0.5466            |       |
| 6 Butane                      | 43  | 3.604     | 3.598         | 0.000          | 95  | 128060   | 2.35              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |     |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND                | U     |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.754         | -0.001         | 98  | 44120    | 0.2682            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.621     | 5.599         | 0.016          | 94  | 13387    | 0.1155            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.856     | 5.853         | 0.000          | 99  | 245984   | 5.66              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.011         | -0.006         | 78  | 2627     | 0.0200            | M     |
| 24 Isopropyl alcohol          | 45  | 6.113     | 6.093         | 0.016          | 100 | 72875    | 1.52              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |     |          | ND                | Ua    |
| 27 Methylene Chloride         | 49  | 6.552     | 6.552         | -0.005         | 87  | 11650    | 0.2531            |       |
| 28 2-Methyl-2-propanol        | 59  |           | 6.771         |                |     |          | ND                | U     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |                |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |                |     |          | ND                |       |
| 33 Hexane                     | 57  | 7.279     | 7.275         | 0.000          | 91  | 20659    | 0.4194            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.799     | 8.788         | 0.006          | 99  | 32737    | 2.10              |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.152         | 0.000          | 74  | 558007   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |                |     |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.269     | 9.264         | 0.000          | 45  | 4646     | 0.0399            | M     |
| 43 Cyclohexane                | 84  | 9.515     | 9.515         | -0.016         | 93  | 16714    | 0.3029            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.778     | 9.778         | -0.005         | 84  | 9963     | 0.0698            |       |
| 46 Isooctane                  | 57  | 10.195    | 10.190        | 0.000          | 95  | 58491    | 0.3205            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.216        | -0.005        | 95 | 49860    | 0.3895            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.553    | 10.553        | -0.022        | 91 | 12736    | 0.1934            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2403809  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                | MU    |
| 65 Toluene                     | 92  | 14.057    | 14.068        | -0.011        | 95 | 90800    | 0.9337            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.143        | -0.005        | 94 | 16006    | 0.1375            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957        | -0.006        | 84 | 2400767  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.182    | 17.187        | 0.000         | 97 | 20370    | 0.0930            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.433    | 17.438        | 0.000         | 0  | 23084    | 0.2600            |       |
| 79 o-Xylene                    | 106 | 18.294    | 18.294        | 0.000         | 97 | 8884     | 0.1053            | M     |
| 80 Styrene                     | 104 |           | 18.337        |               |    |          | ND                | Ua    |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.049        |               |    |          | ND                | U     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.846        |               |    |          | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 | 20.049    | 20.049        | -0.005        | 41 | 3128     | 0.0125            | a     |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.167    | 20.167        | -0.010        | 54 | 3319     | 0.0155            | M     |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.793    | 20.804        | -0.005        | 90 | 8812     | 0.0417            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.418        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Worklist Smp#: 19

Client ID: IA-2\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

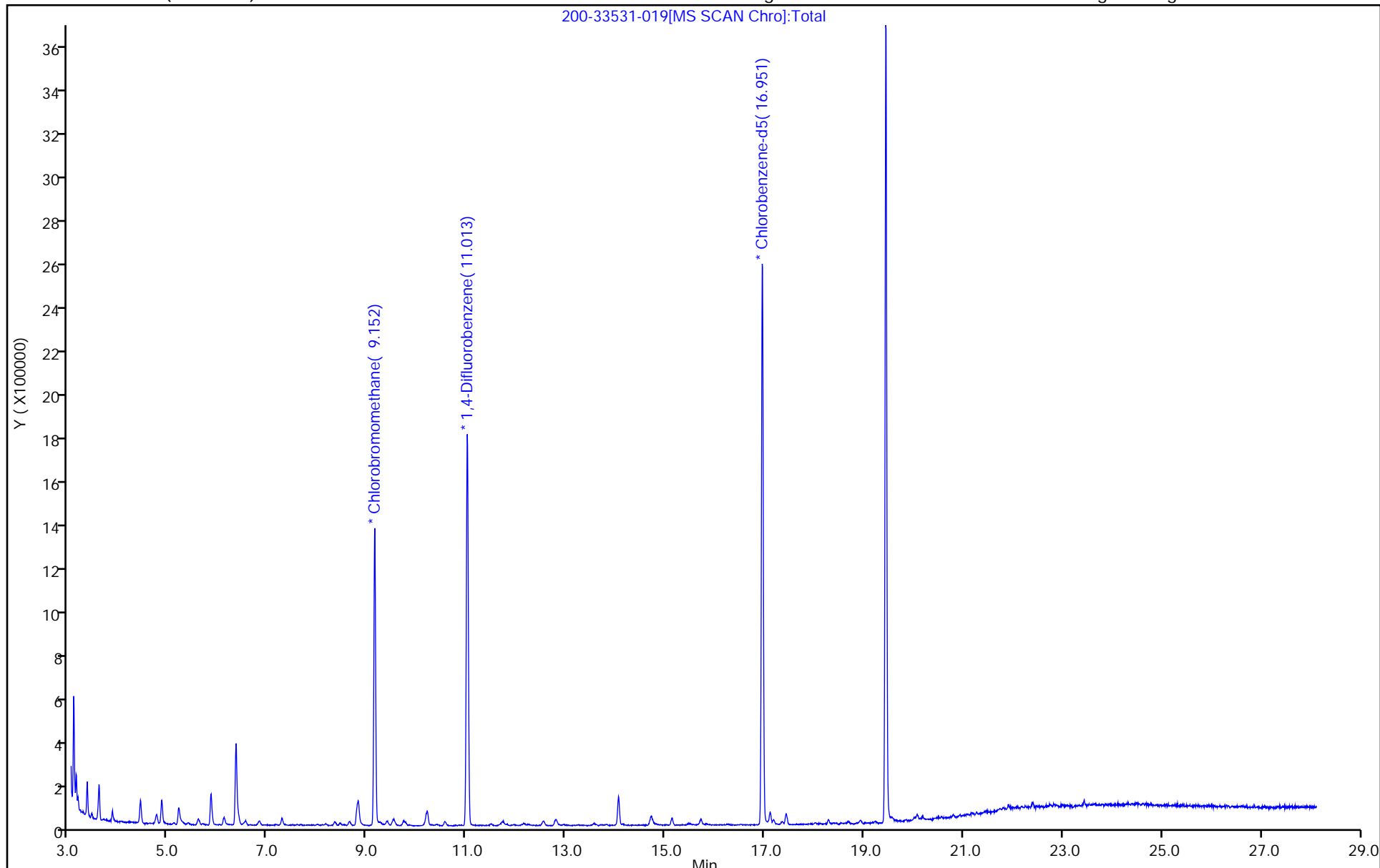
ALS Bottle#: 19

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

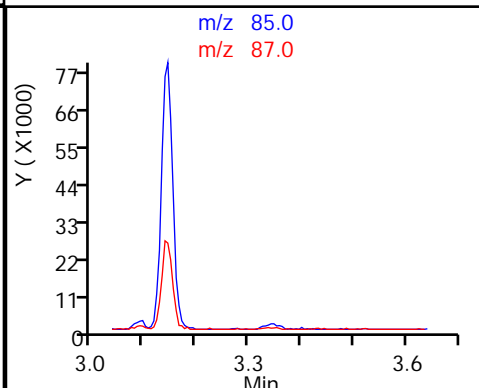
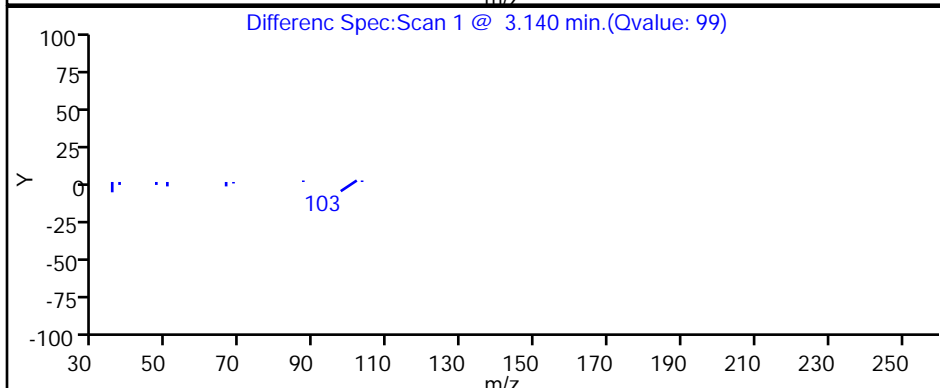
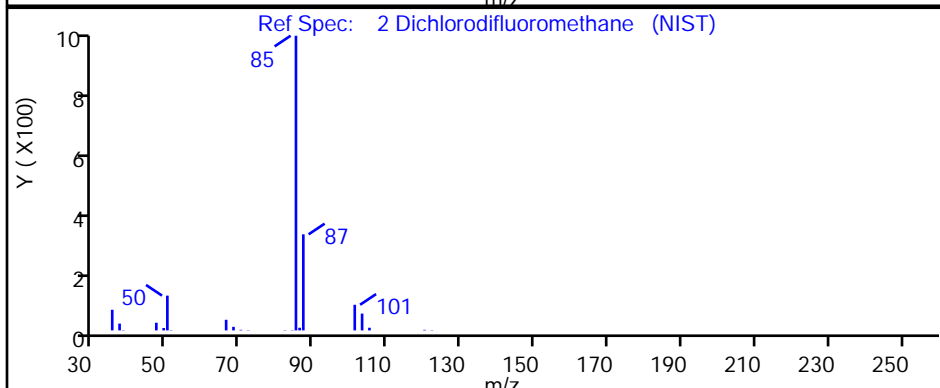
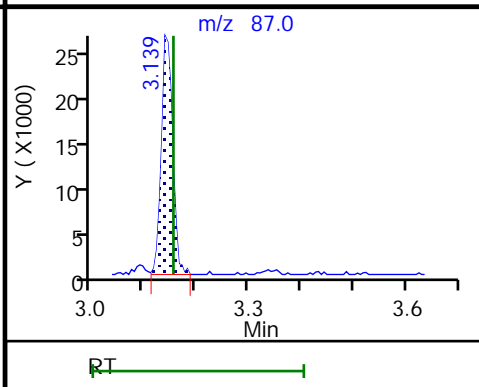
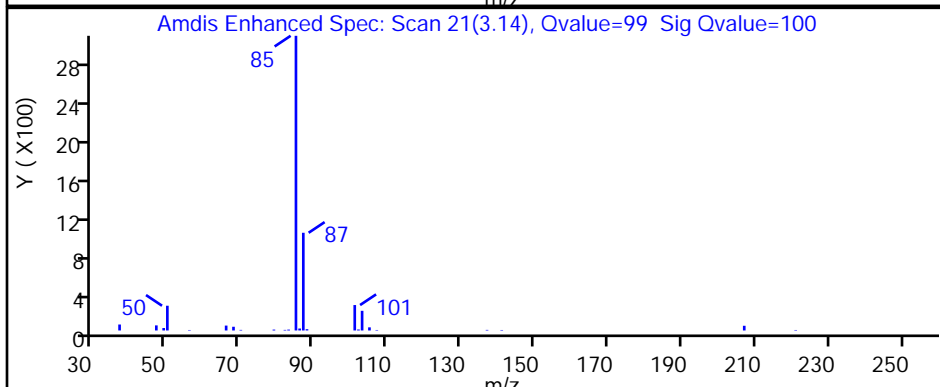
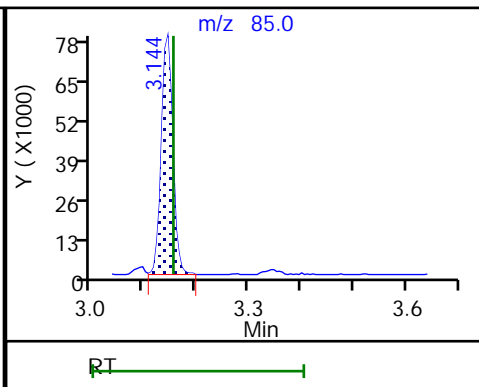
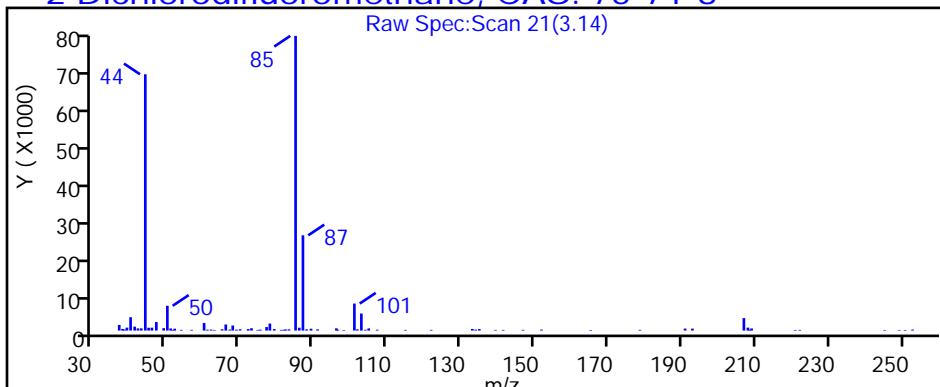
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

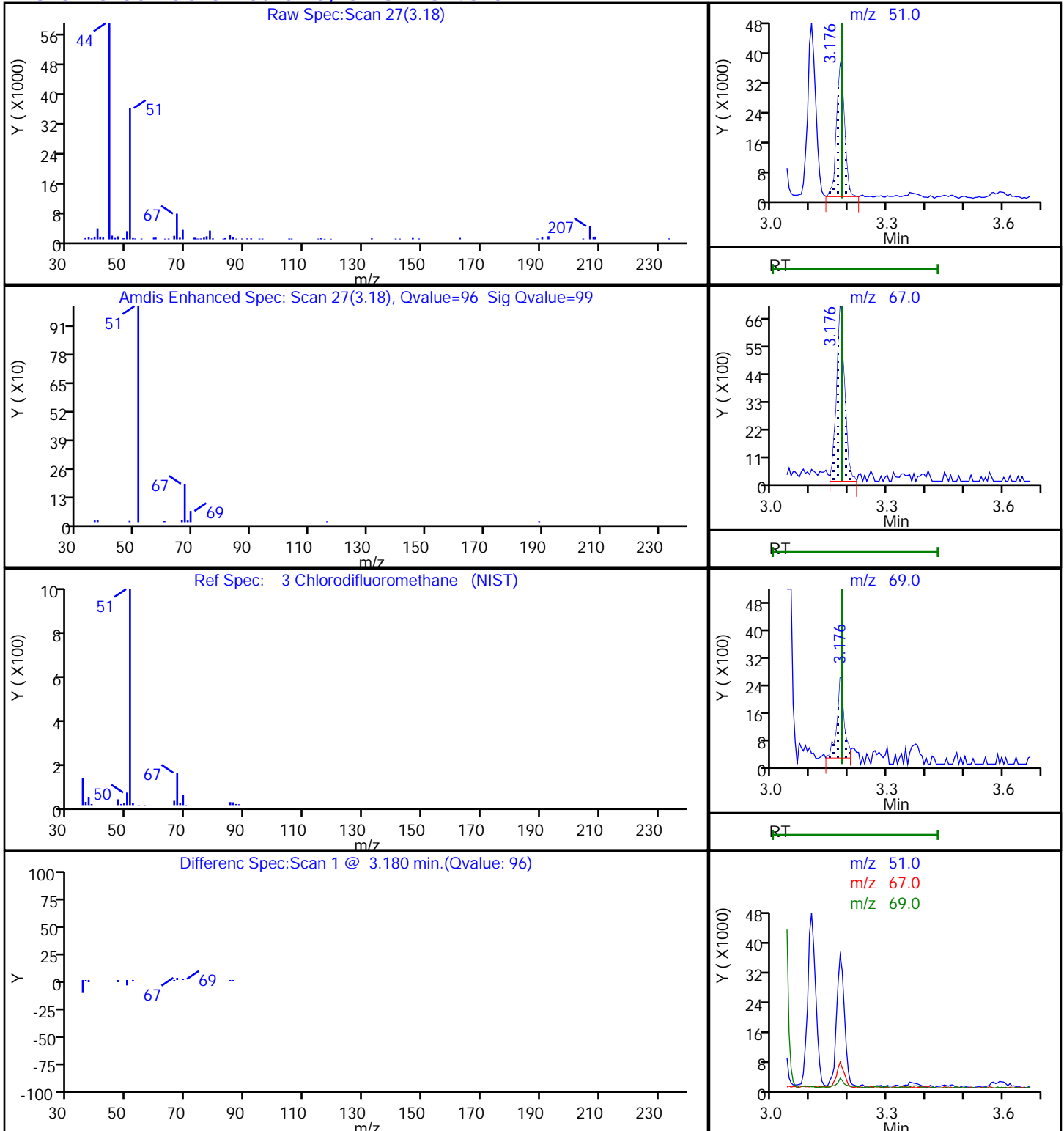
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Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

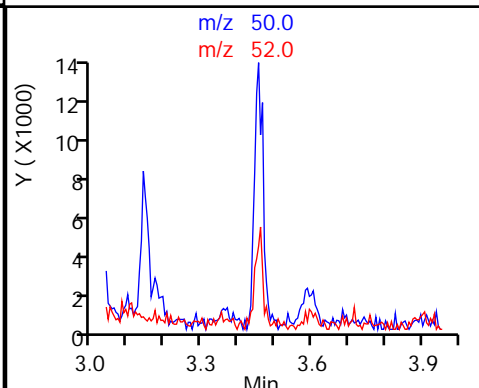
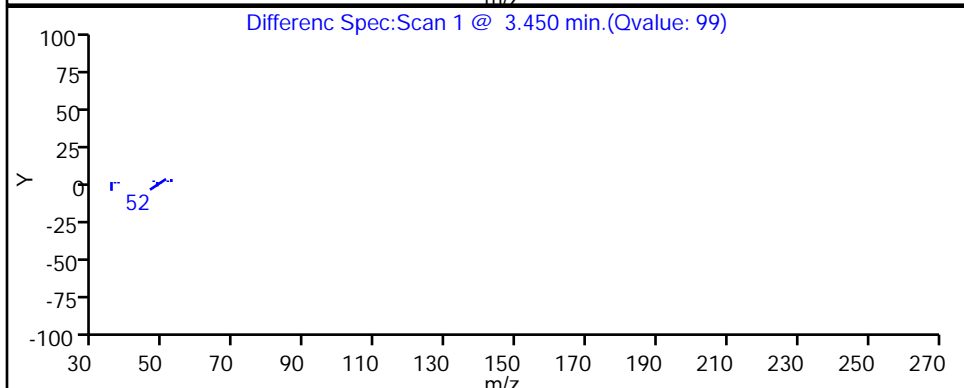
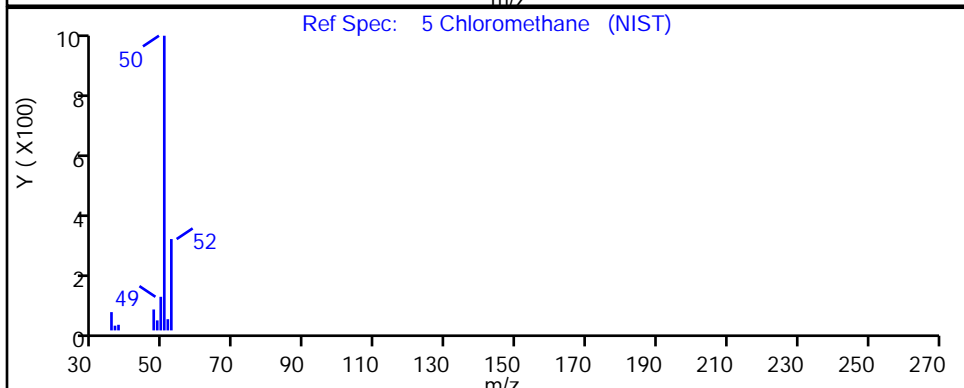
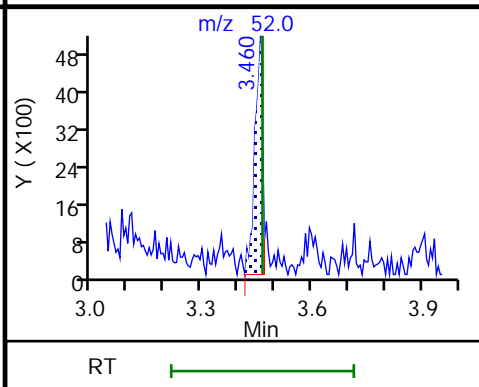
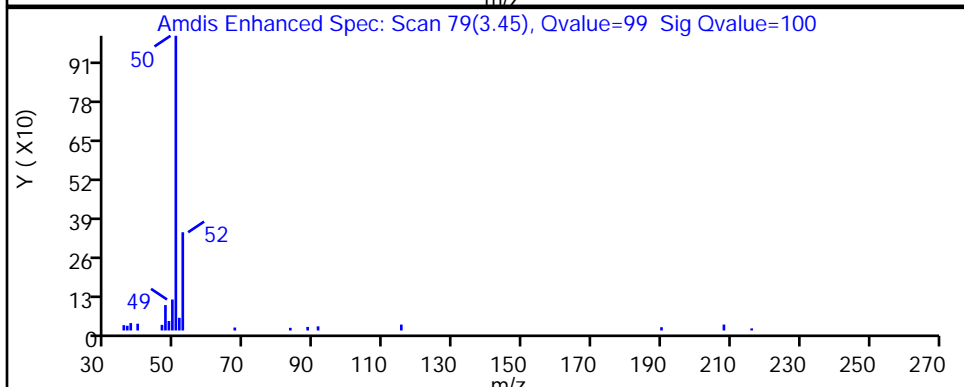
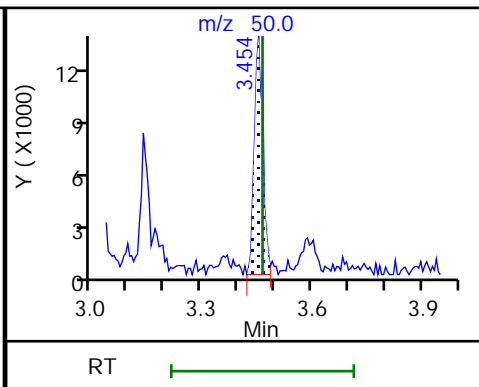
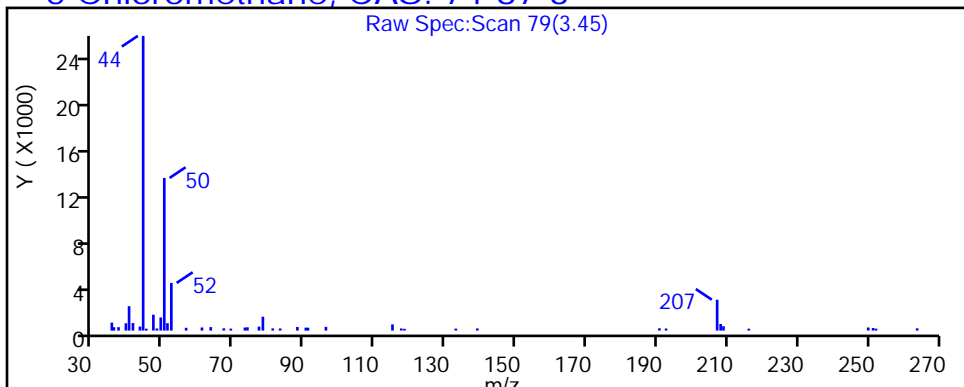
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

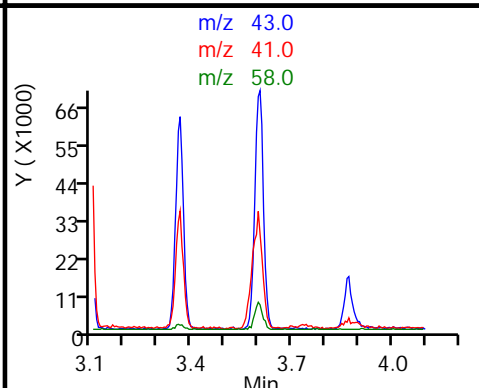
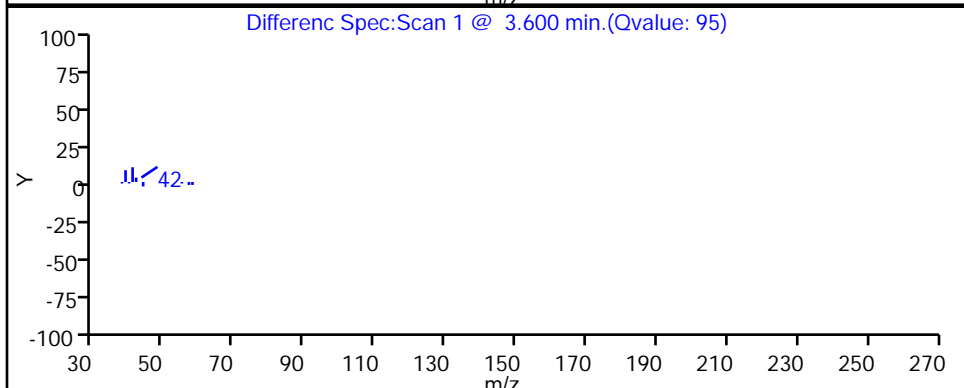
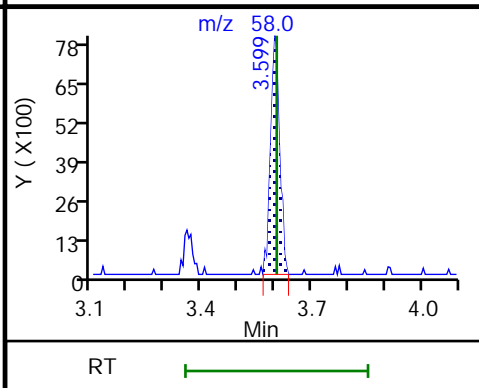
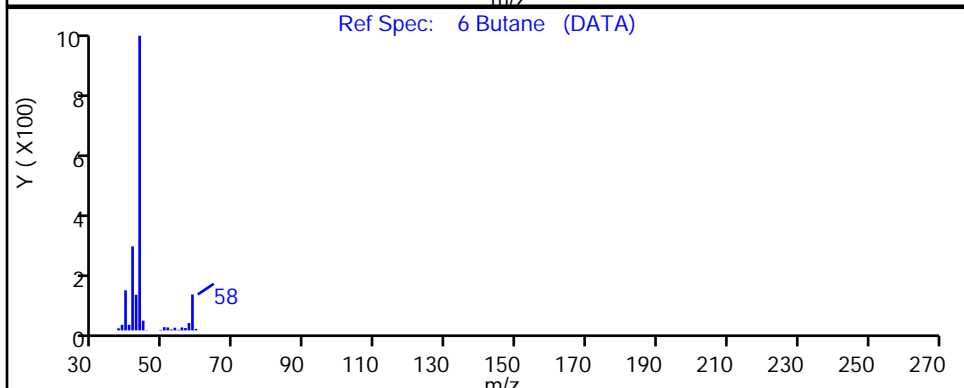
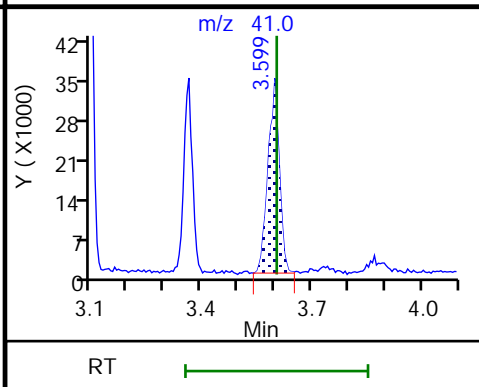
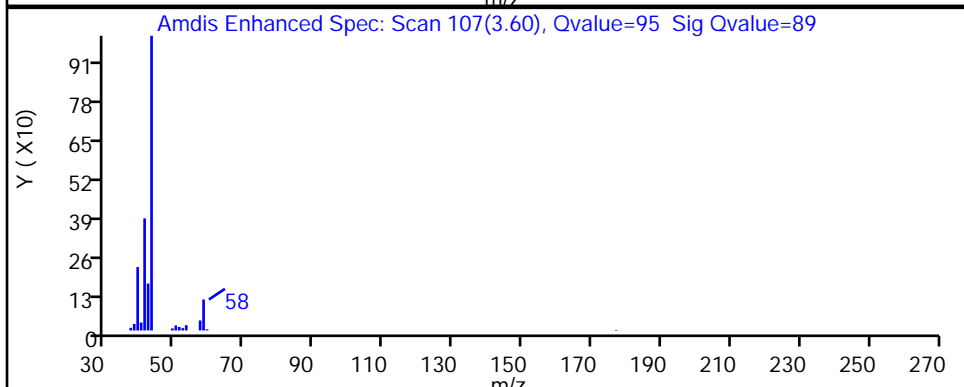
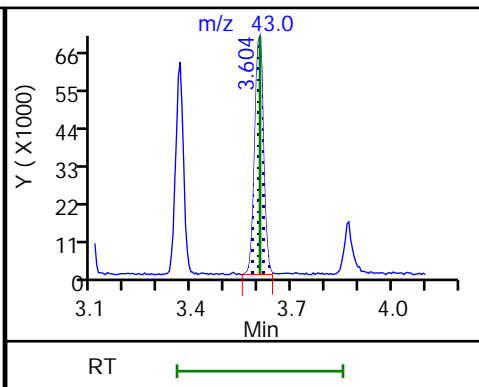
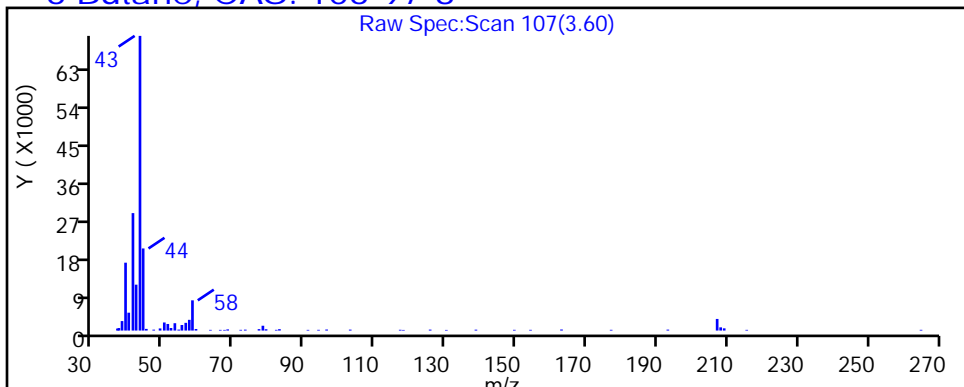
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

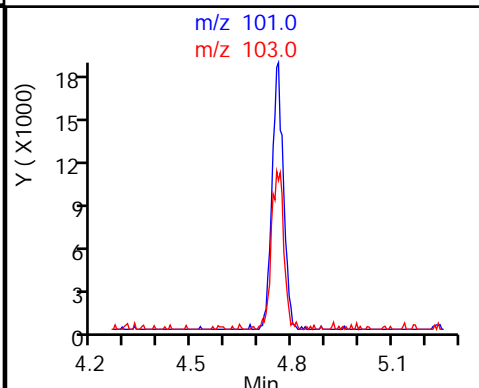
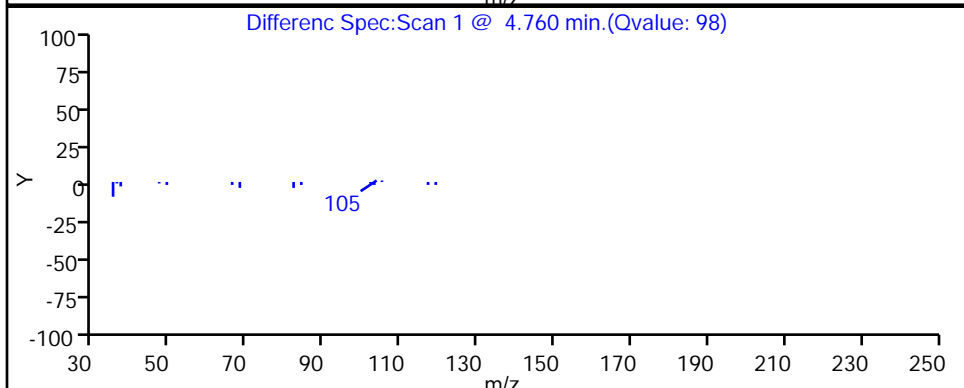
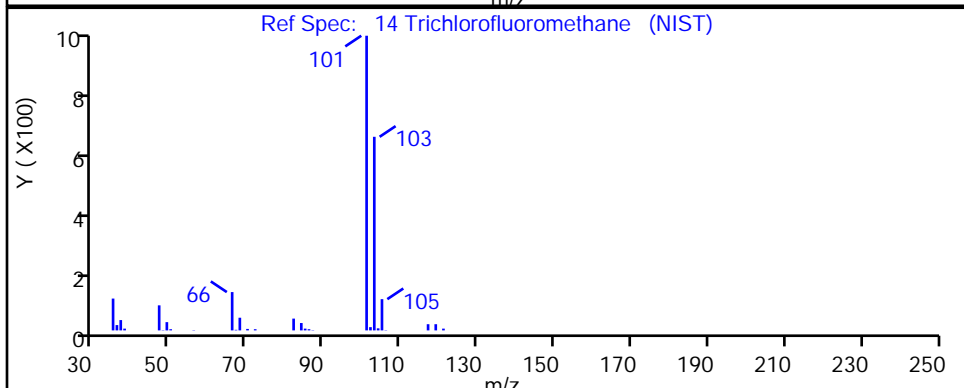
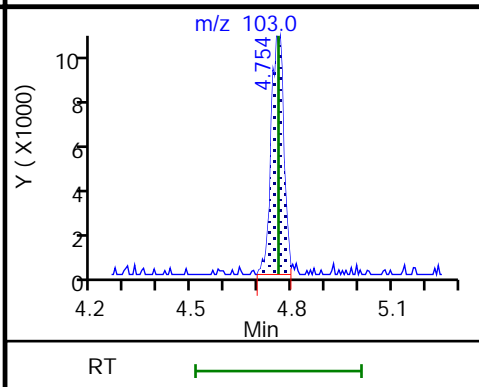
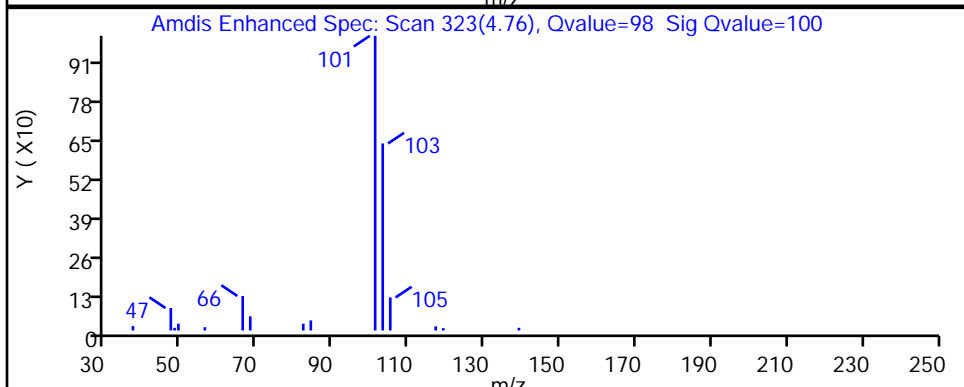
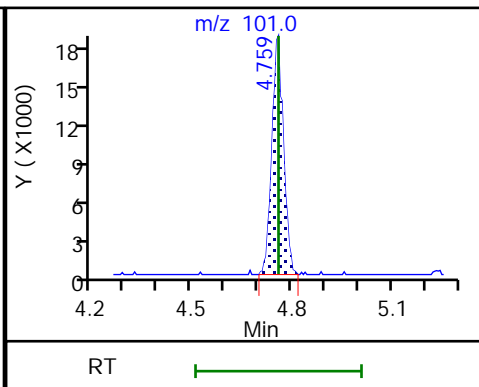
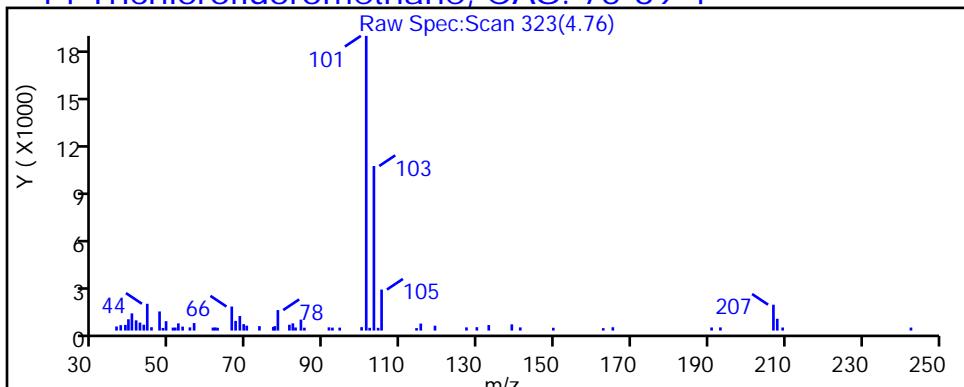
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

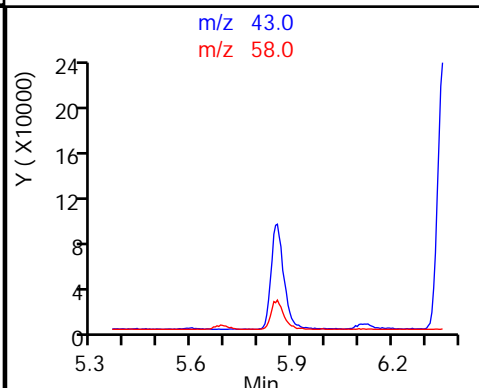
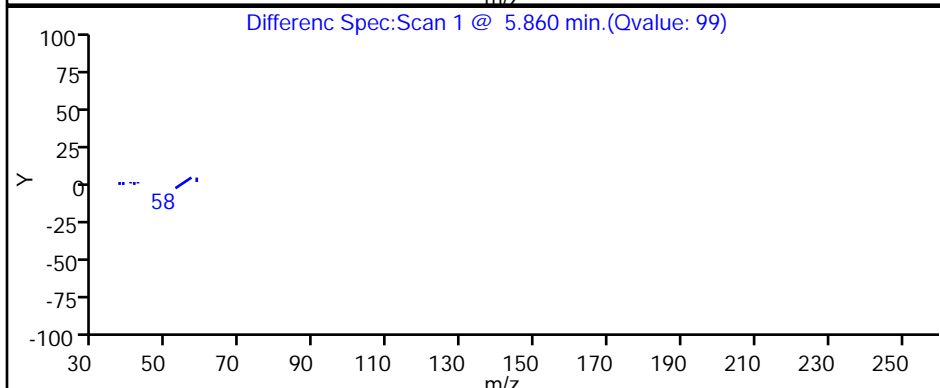
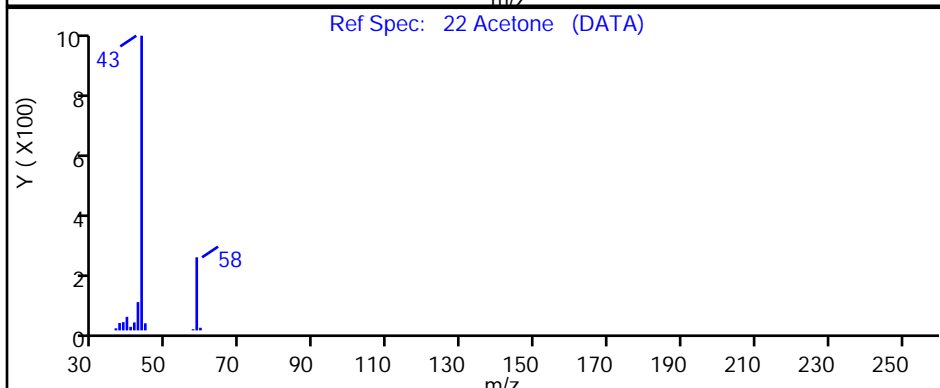
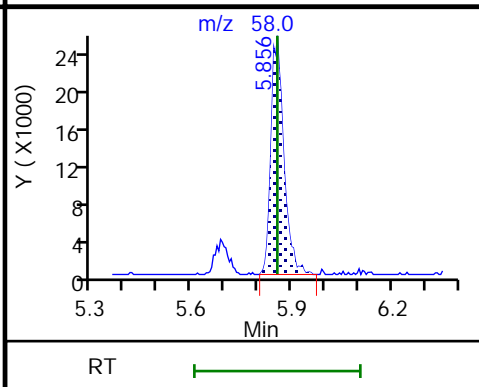
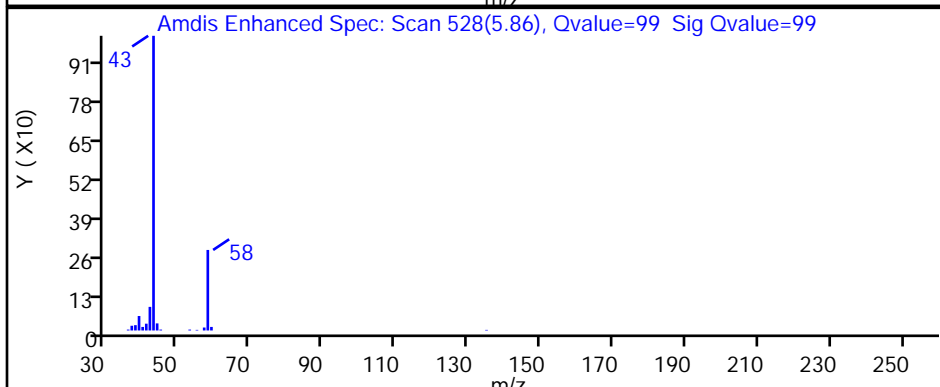
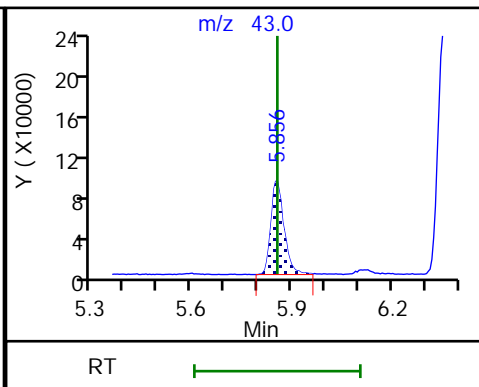
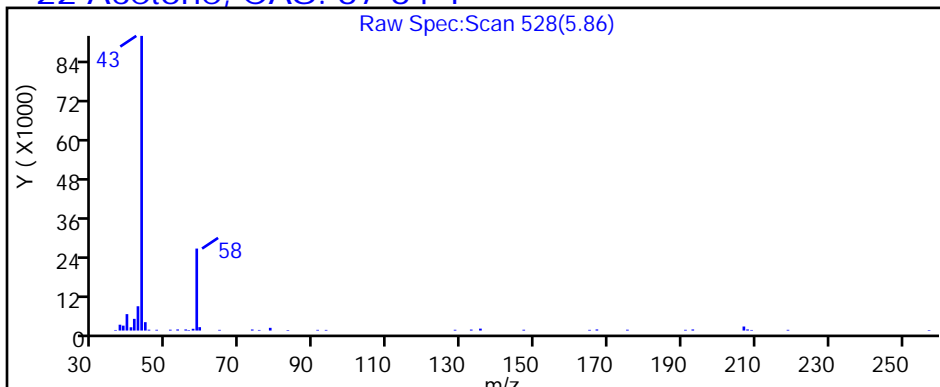
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

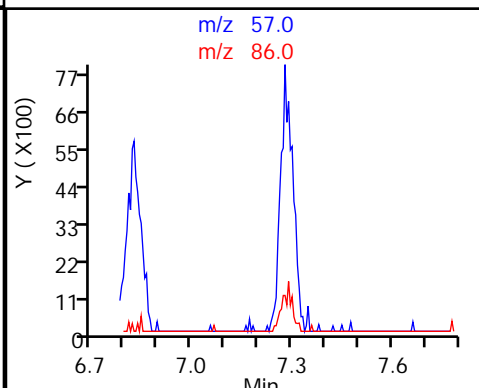
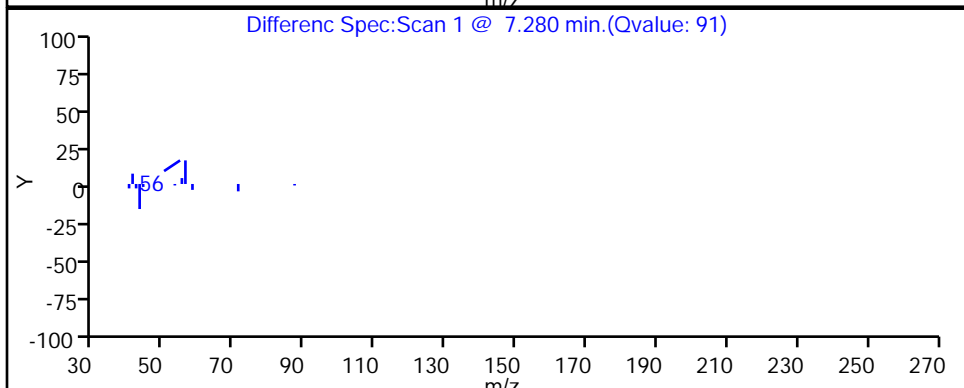
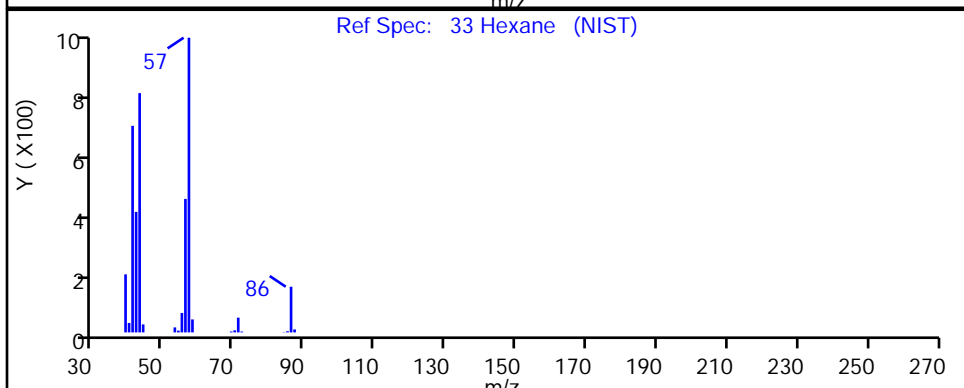
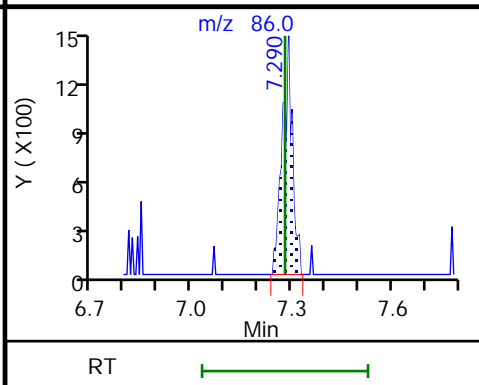
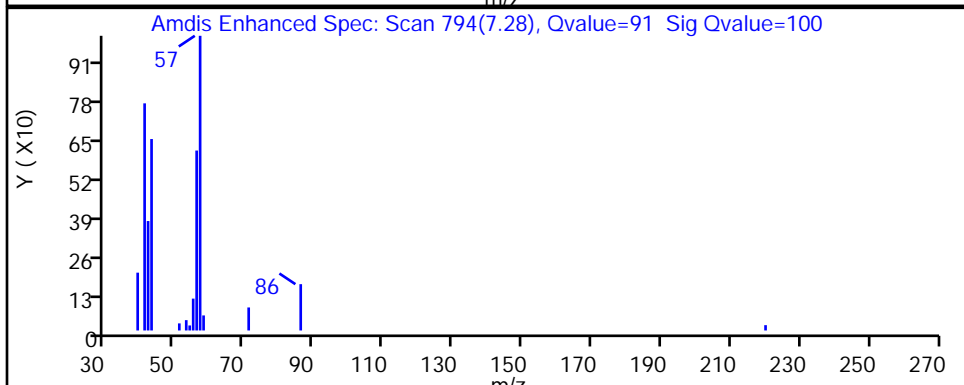
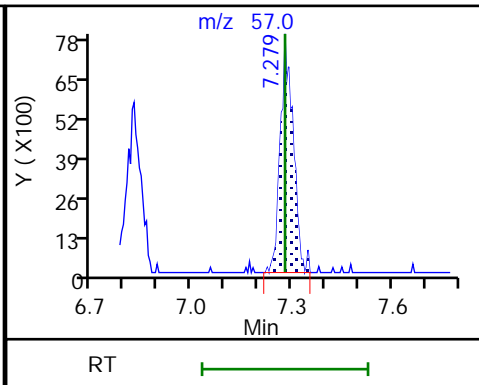
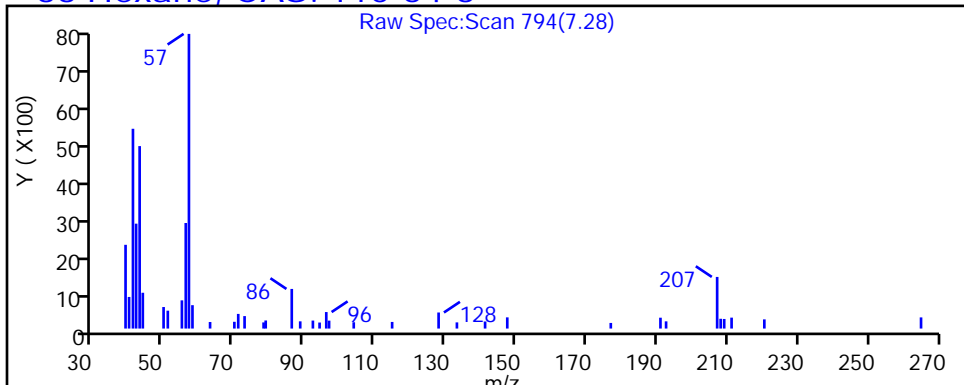
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

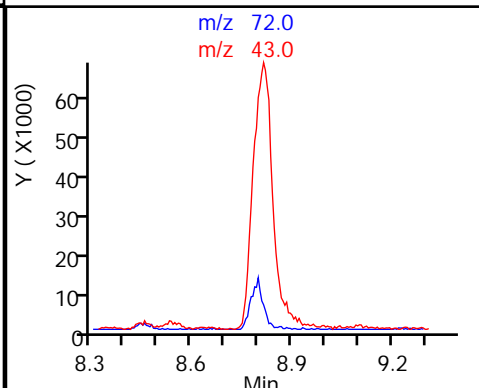
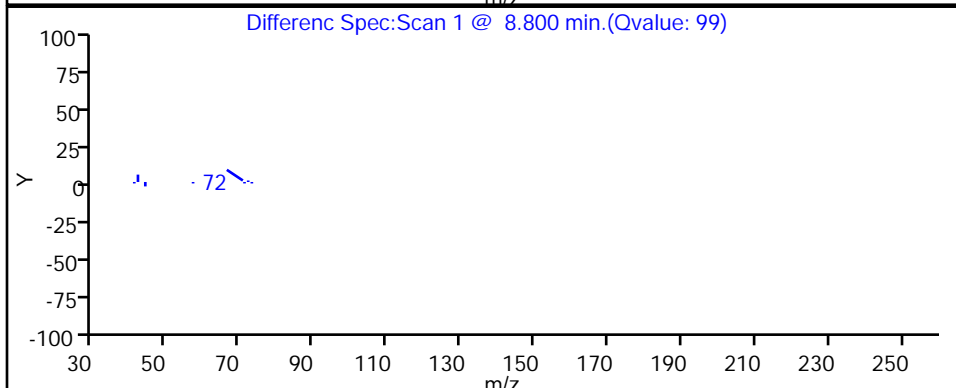
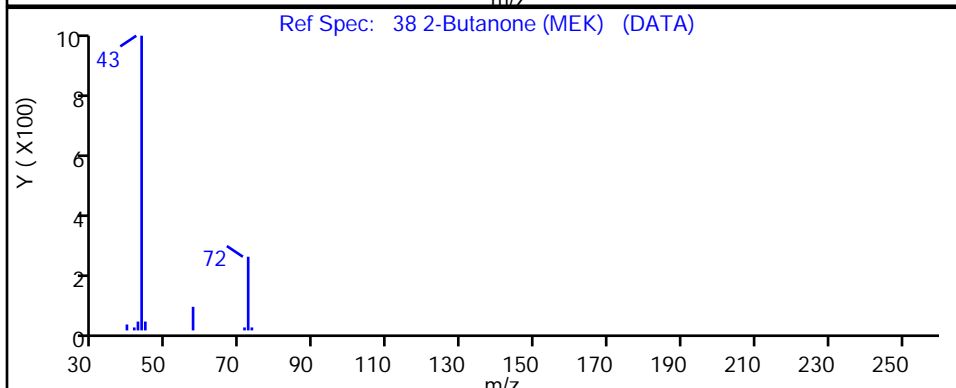
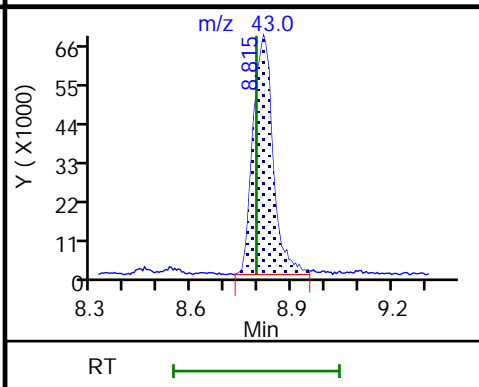
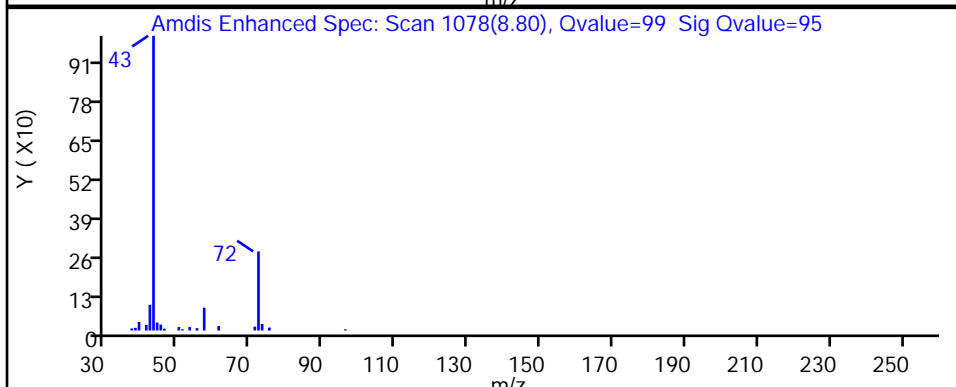
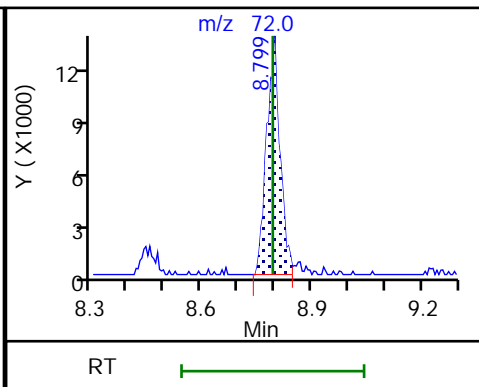
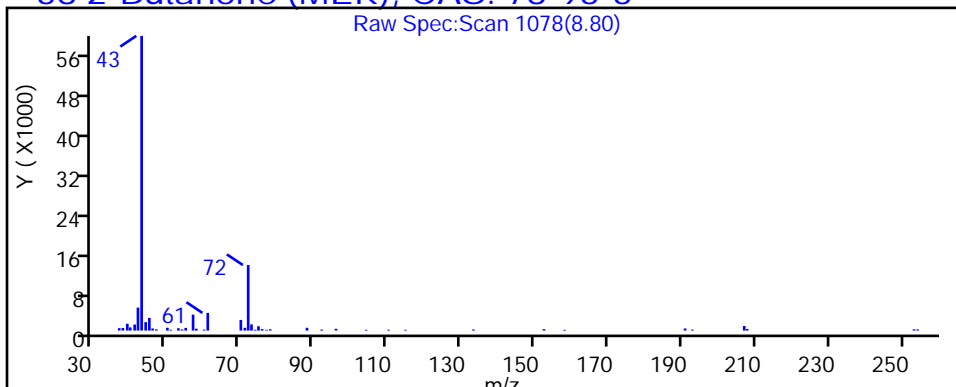
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

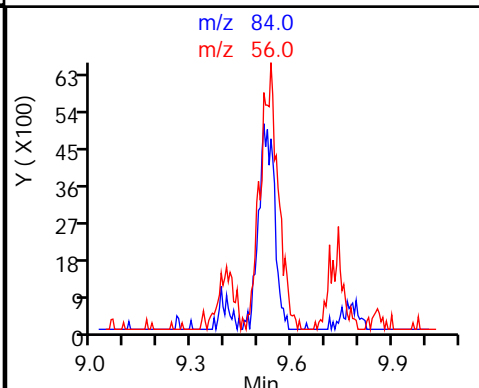
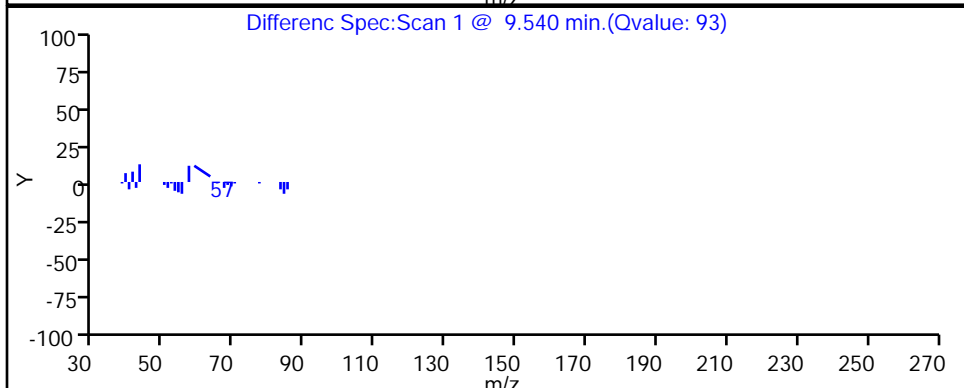
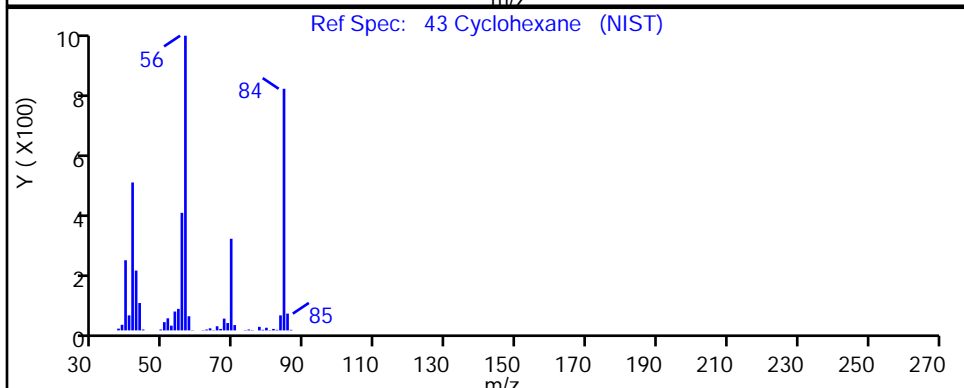
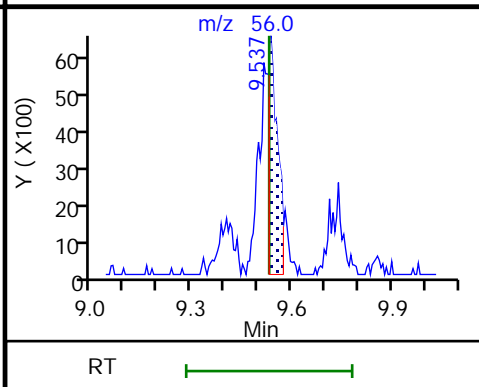
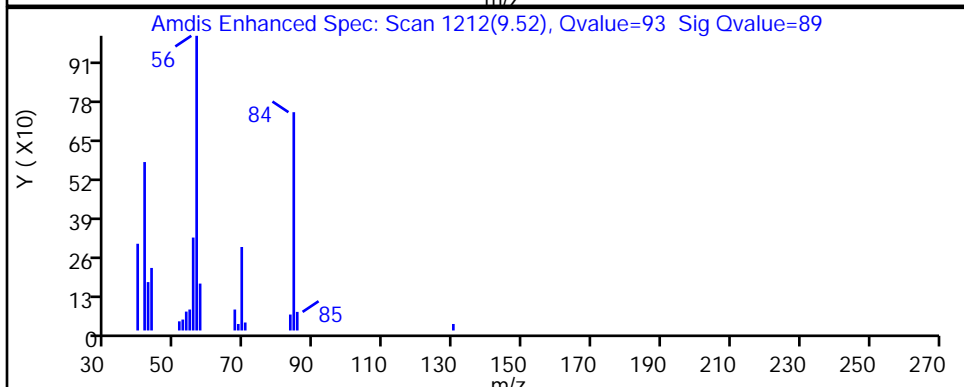
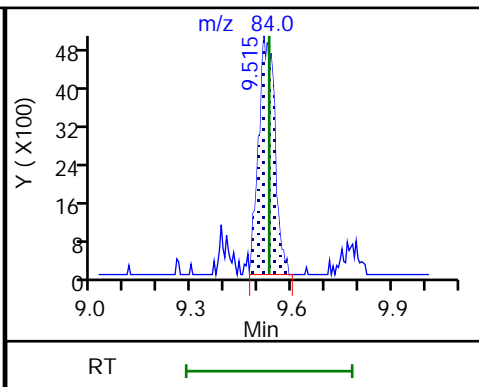
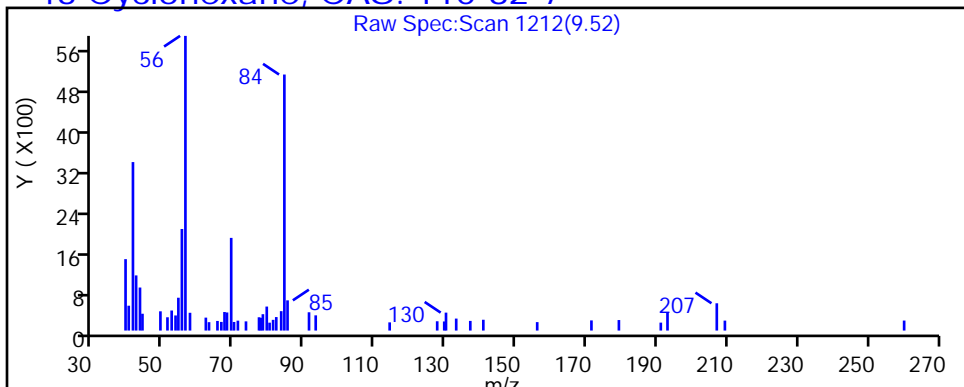
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

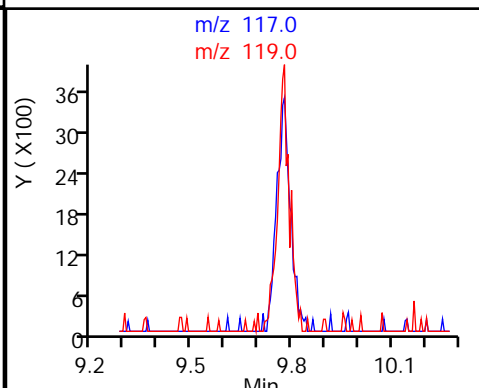
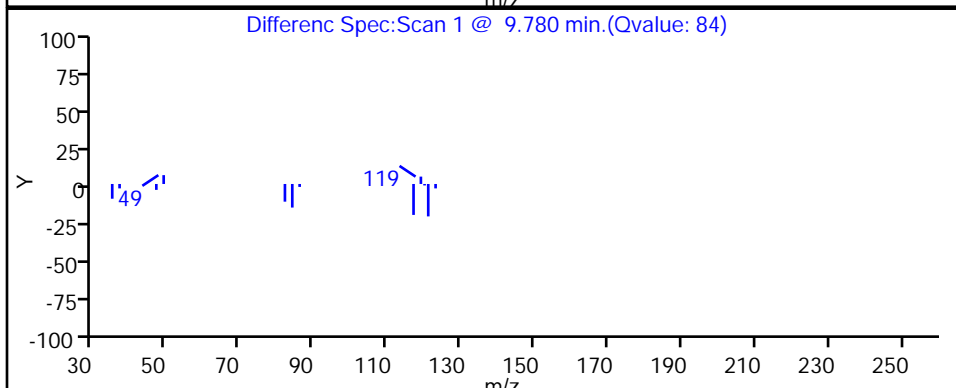
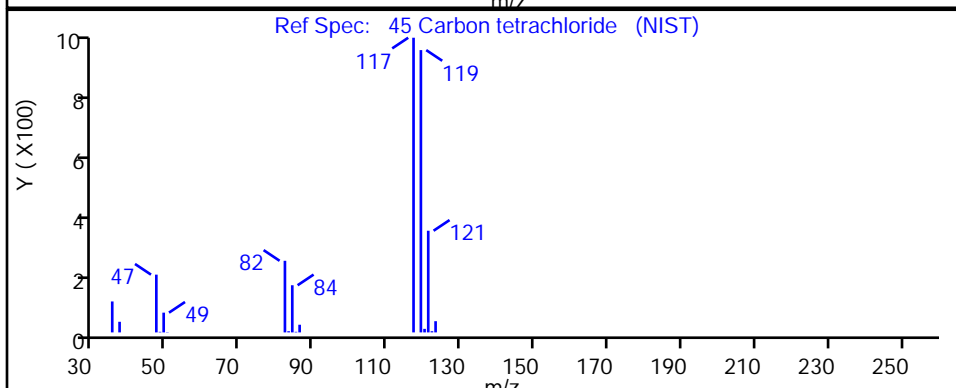
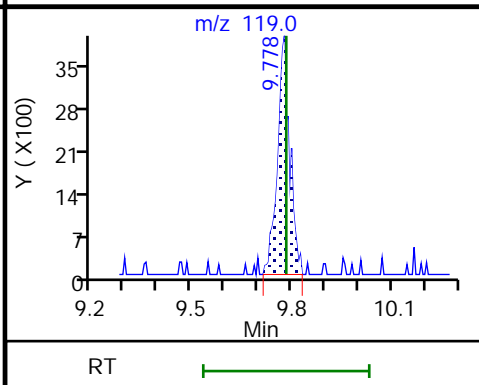
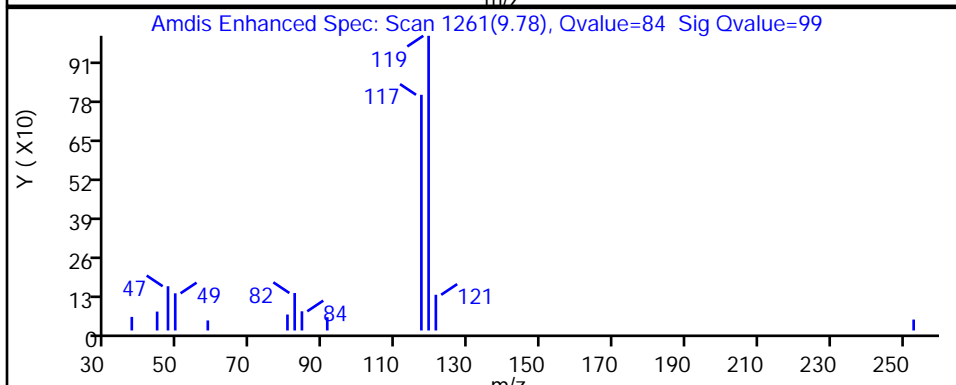
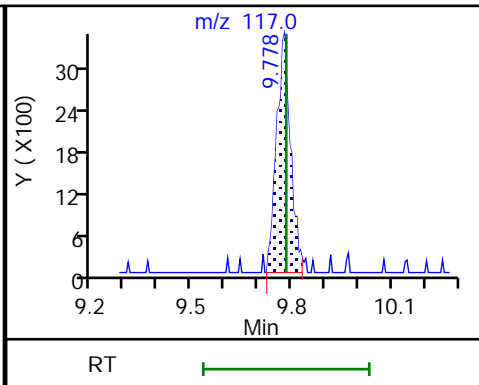
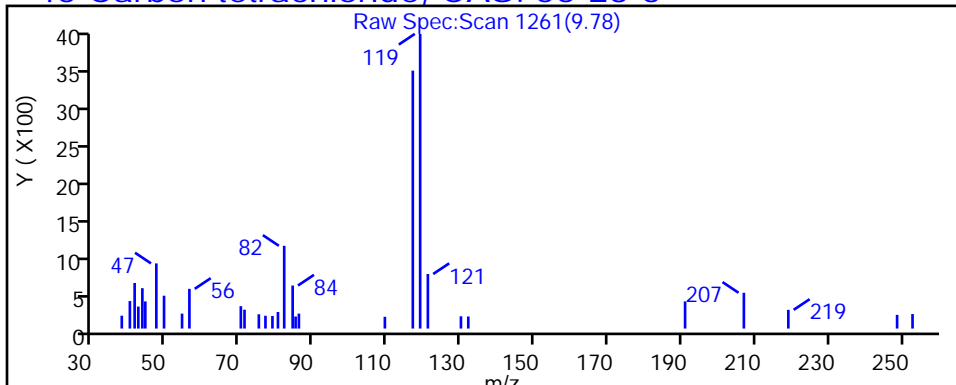
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19

Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

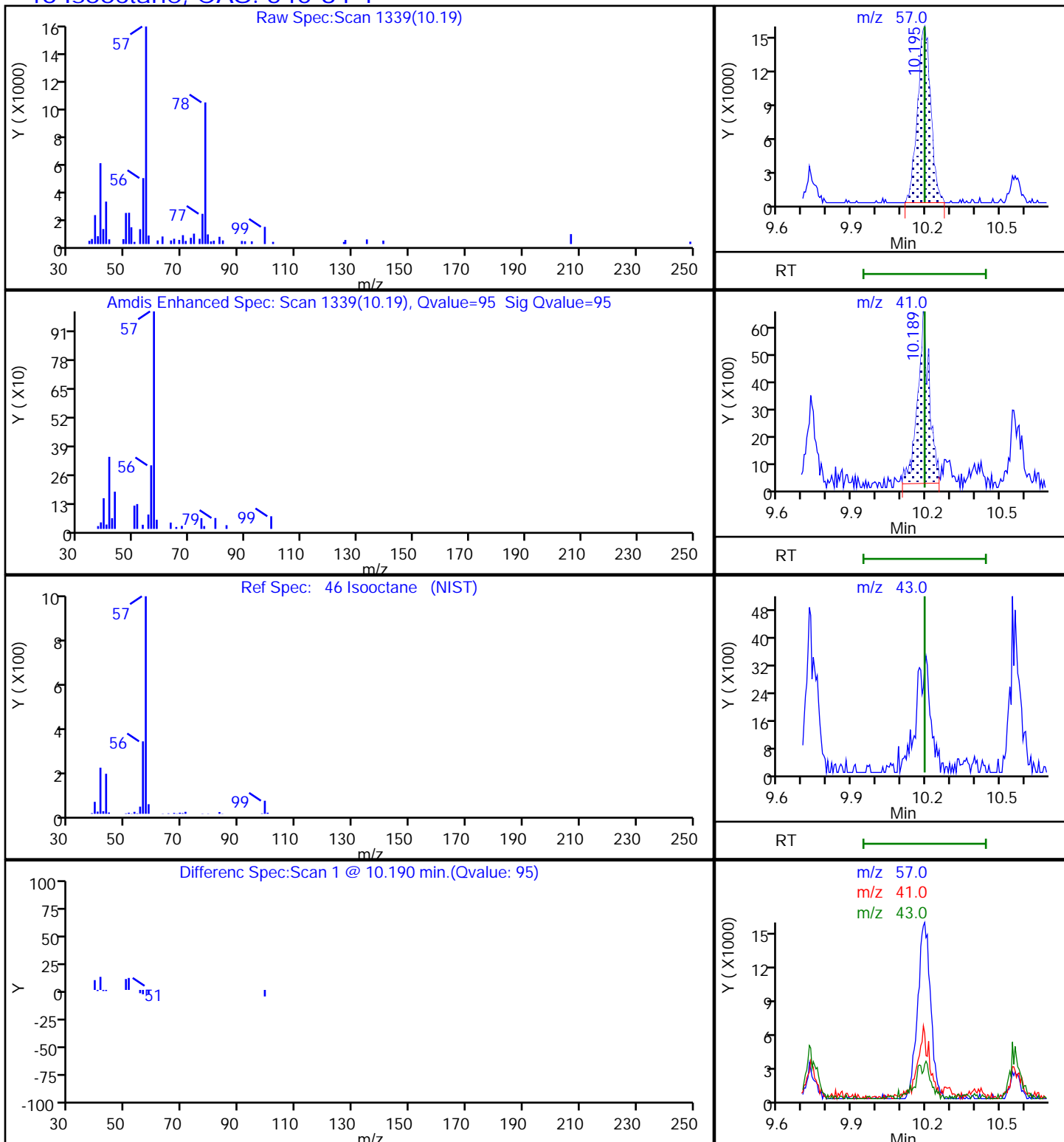
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

46 Isooctane, CAS: 540-84-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

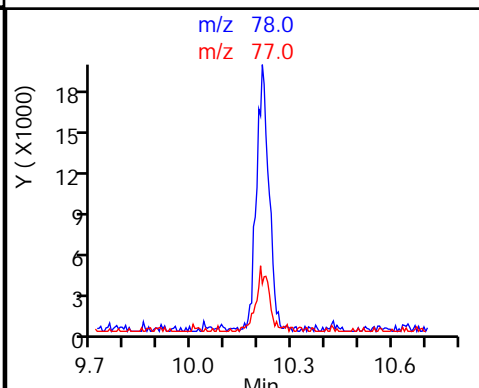
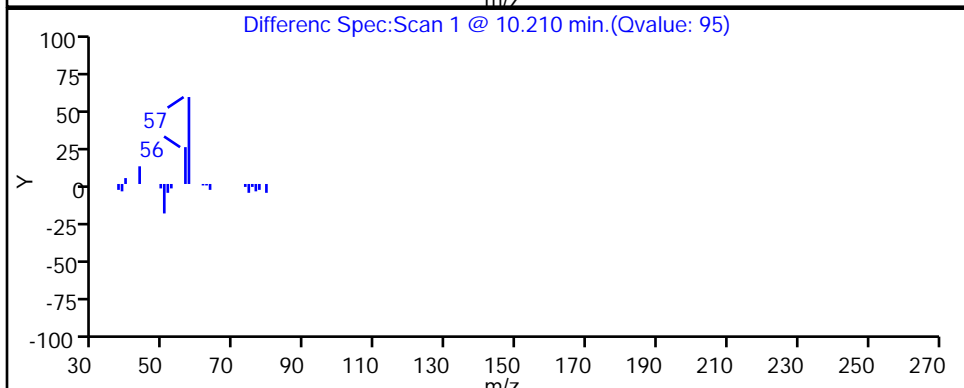
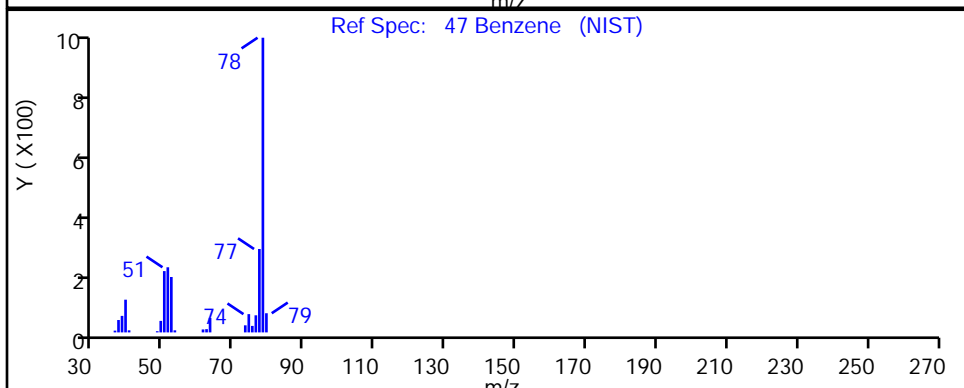
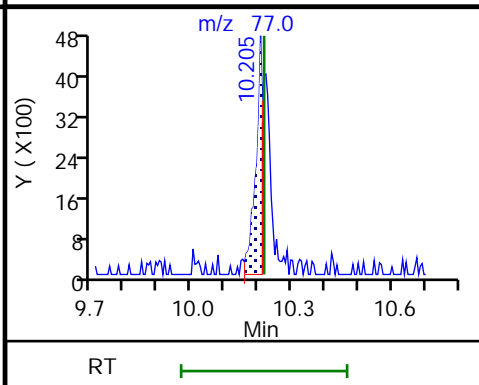
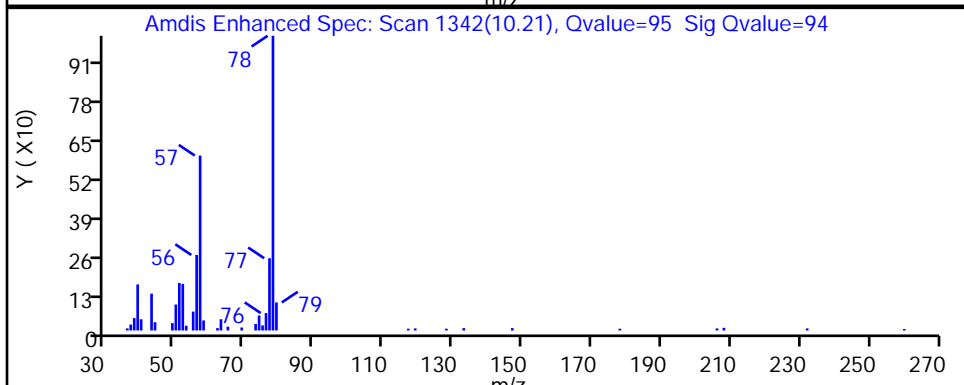
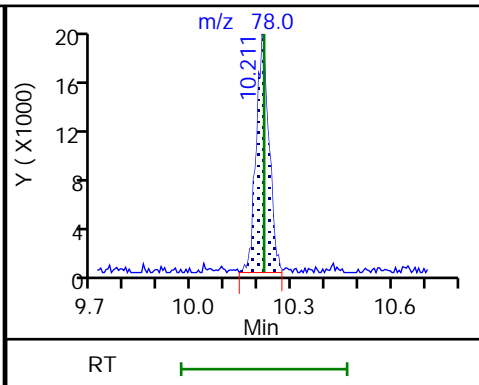
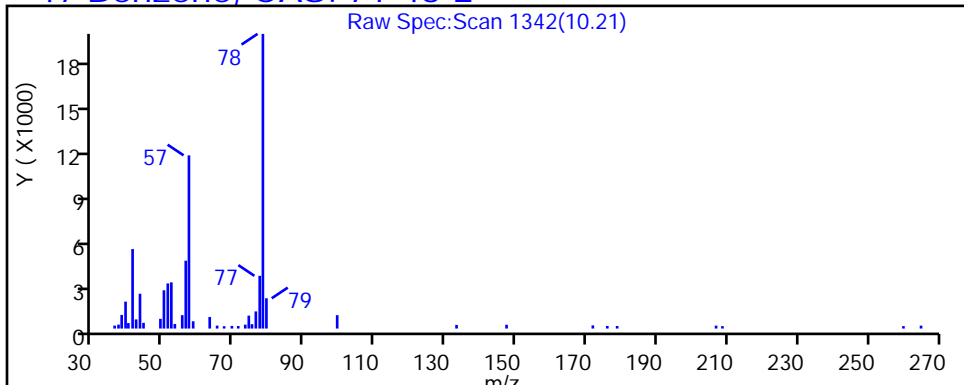
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D

Injection Date: 06-Dec-2018 05:11:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-3

Lab Sample ID: 200-46353-3

Client ID: IA-2\_20181120

Operator ID: ert

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

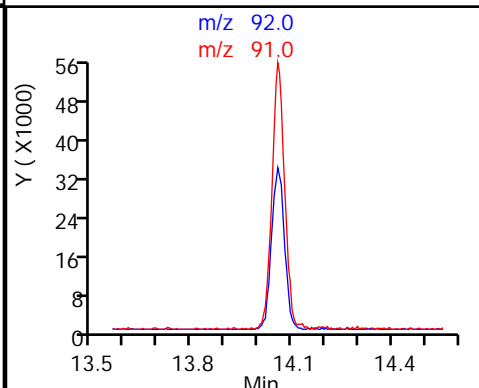
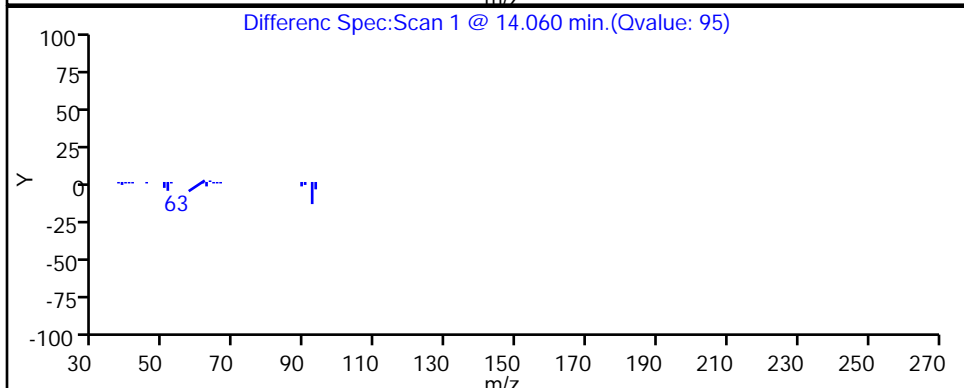
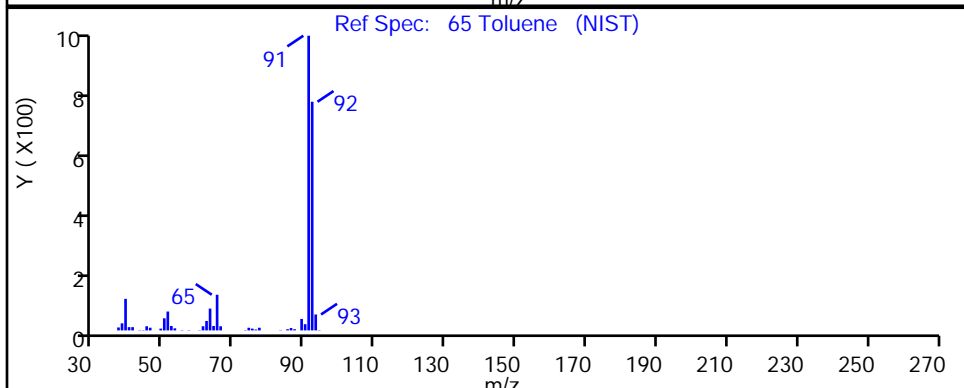
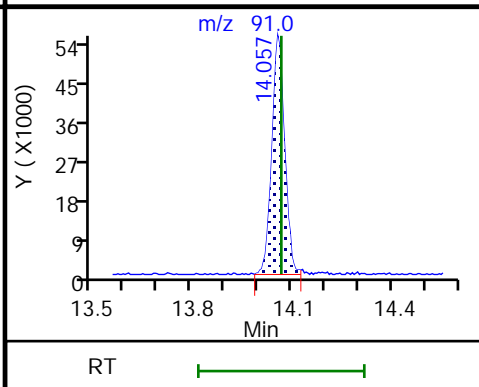
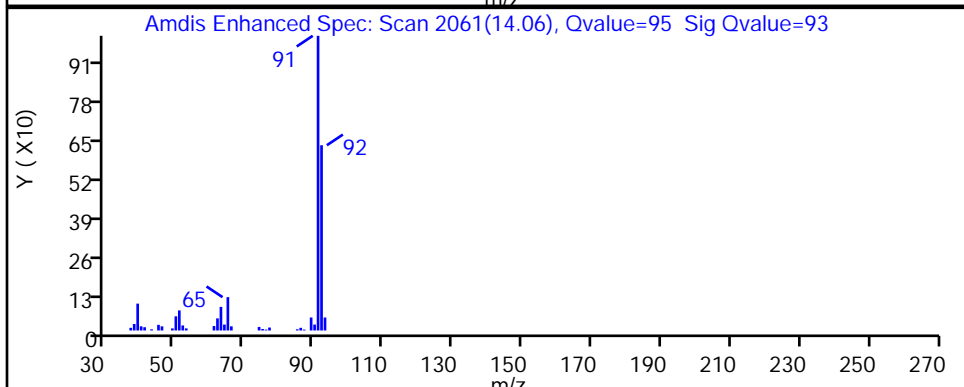
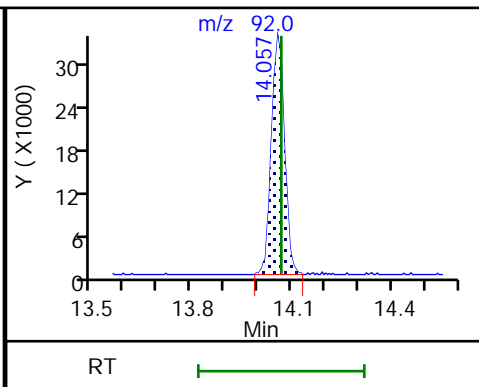
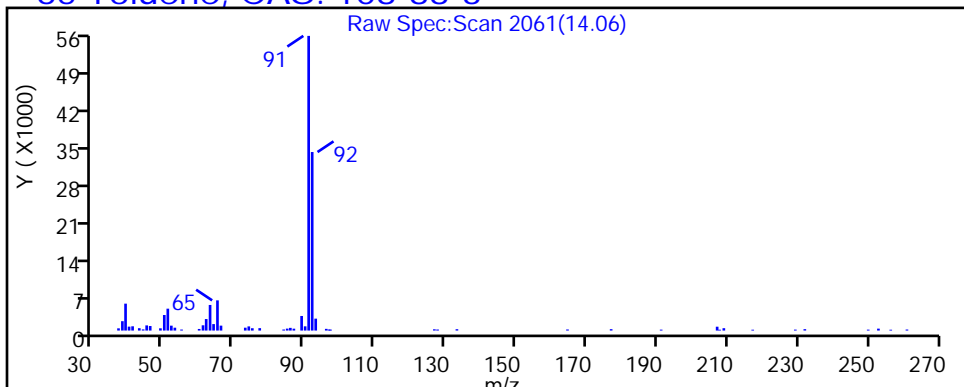
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3

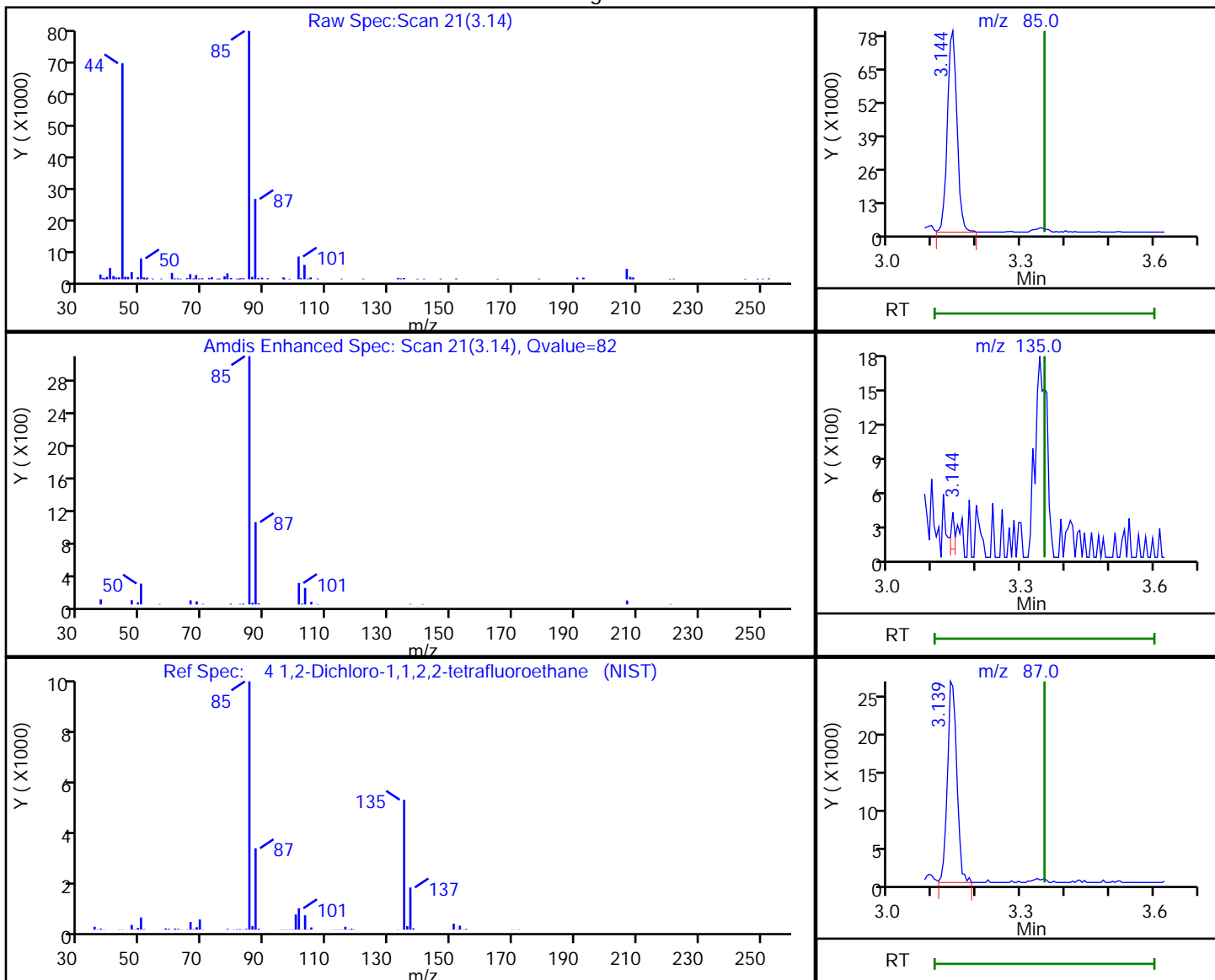


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 120873   | 0.771517 |
| 3.14 | 135.00 | 173      |          |
| 3.14 | 87.00  | 39045    |          |

Reviewer: bunmaa, 07-Dec-2018 08:54:26  
 Audit Action: Marked Compound Undetected

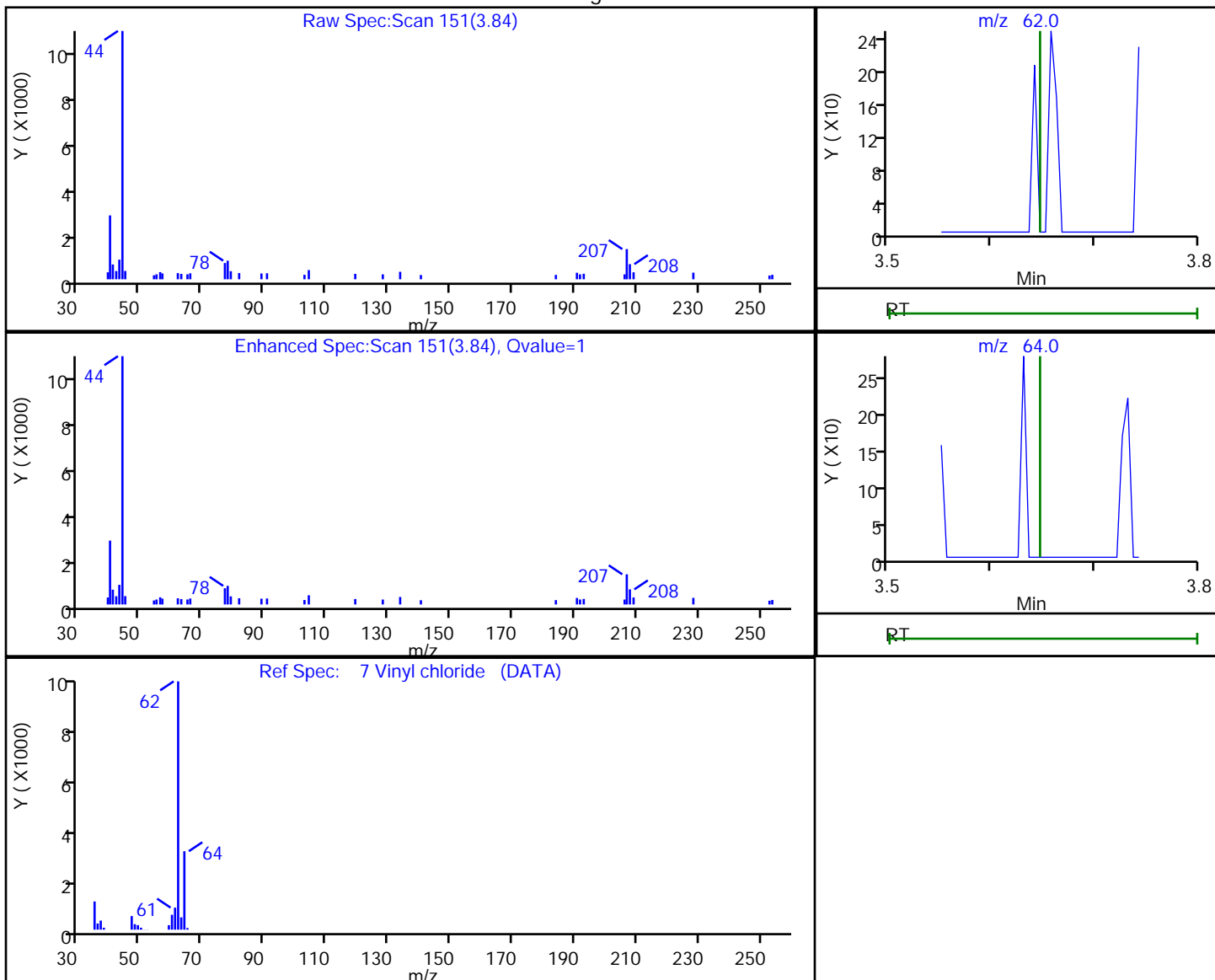
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.84 | 62.00 | 129      | 0.002646 |
| 3.65 | 64.00 | 0        |          |

Reviewer: guazonig, 06-Dec-2018 11:59:22  
 Audit Action: Marked Compound Undetected

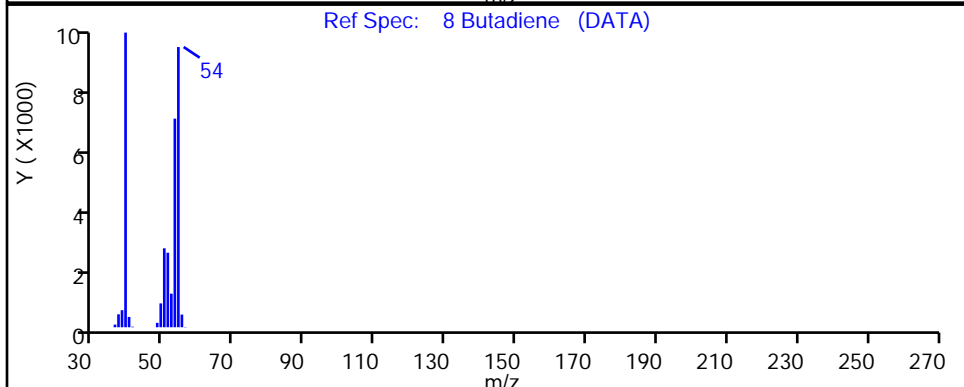
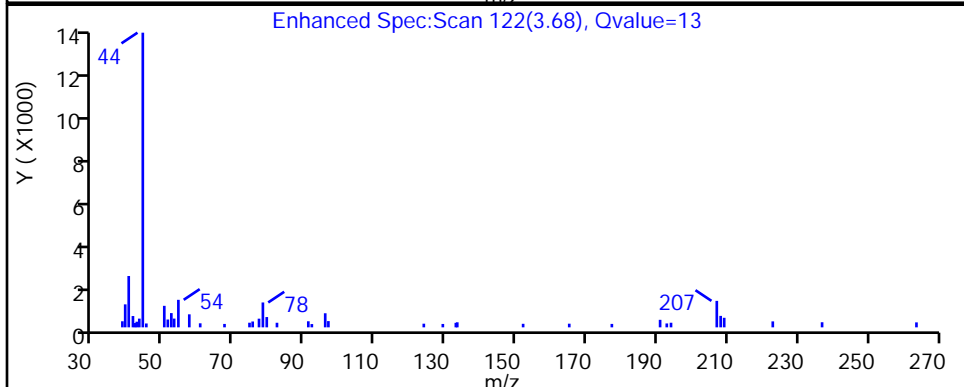
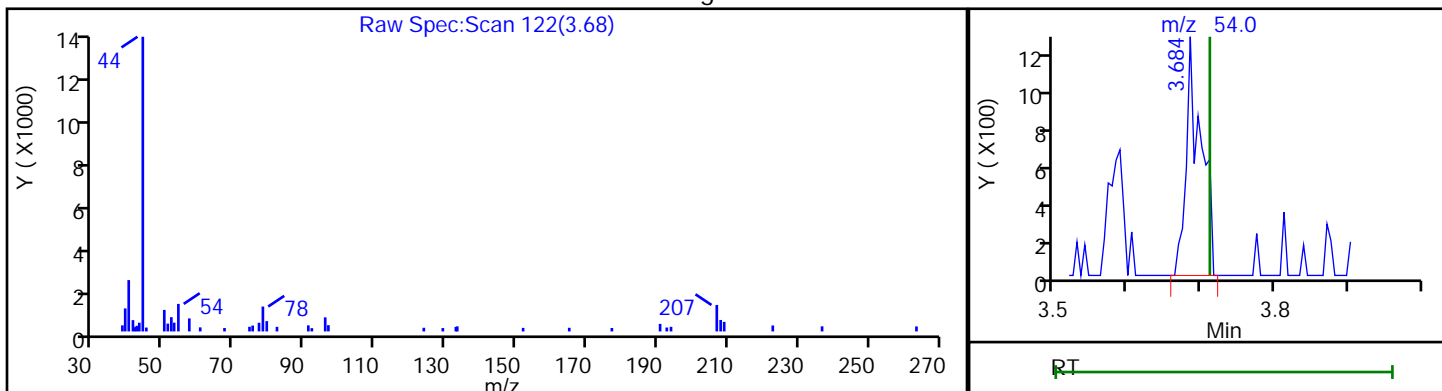
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.68 | 54.00 | 1797     | 0.059236 |

Reviewer: bunmaa, 07-Dec-2018 08:55:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

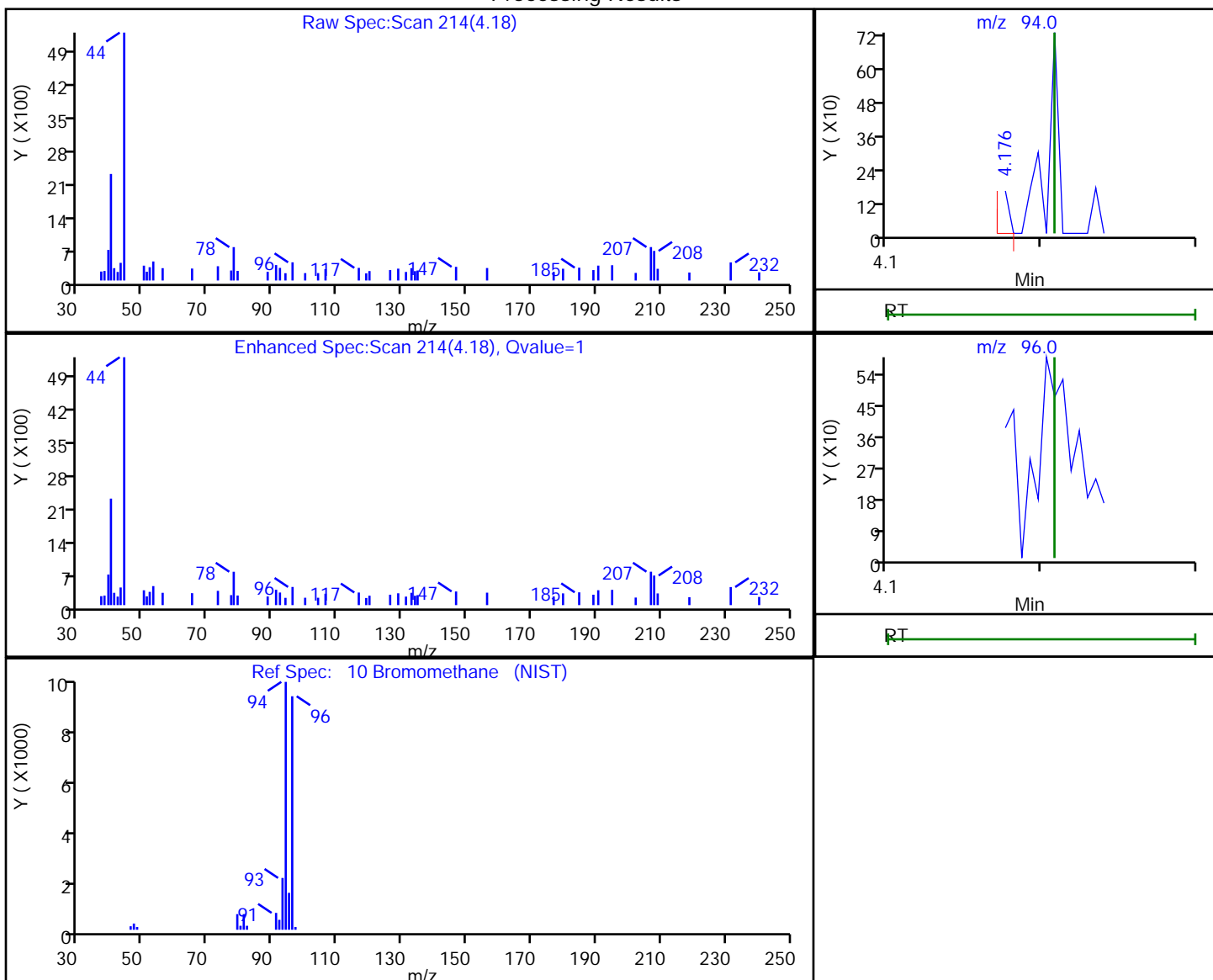


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.18 | 94.00 | 49       | 0.000870 |
| 4.21 | 96.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:25  
Audit Action: Marked Compound Undetected

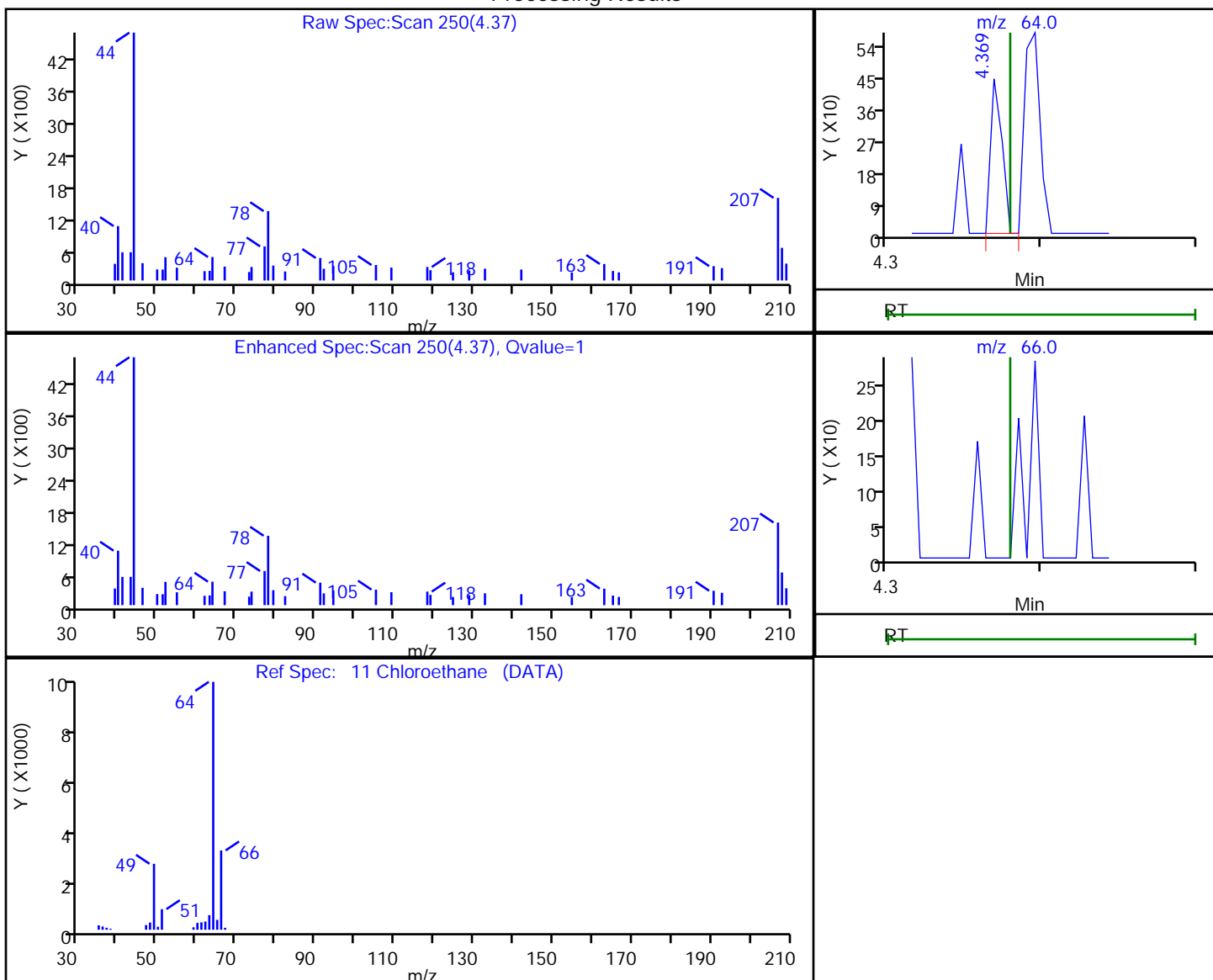
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

11 Chloroethane, CAS: 75-00-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.37 | 64.00 | 226      | 0.012044 |
| 4.38 | 66.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:26

Audit Action: Marked Compound Undetected

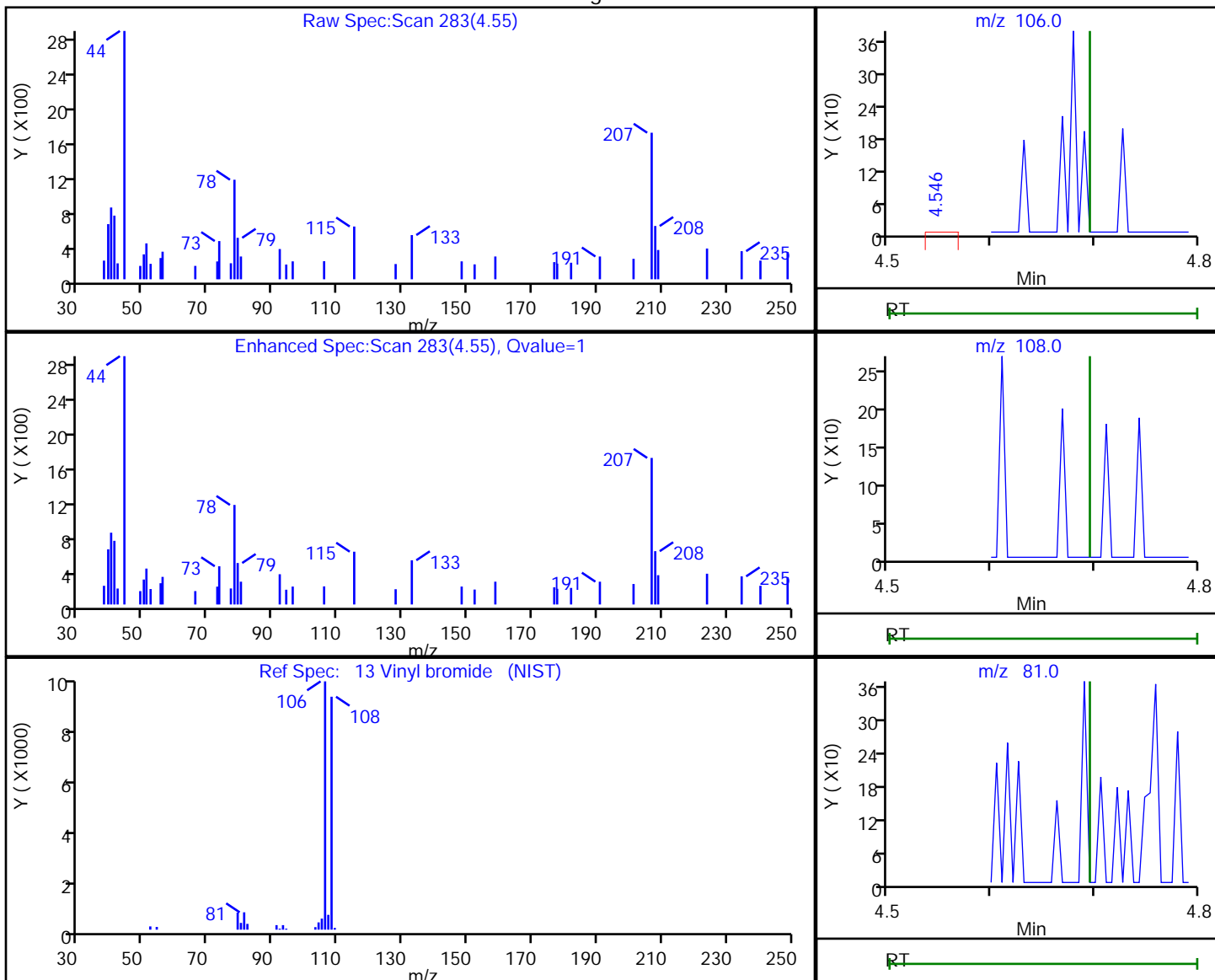
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.55 | 106.00 | 127      | 0.002282 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:27  
 Audit Action: Marked Compound Undetected

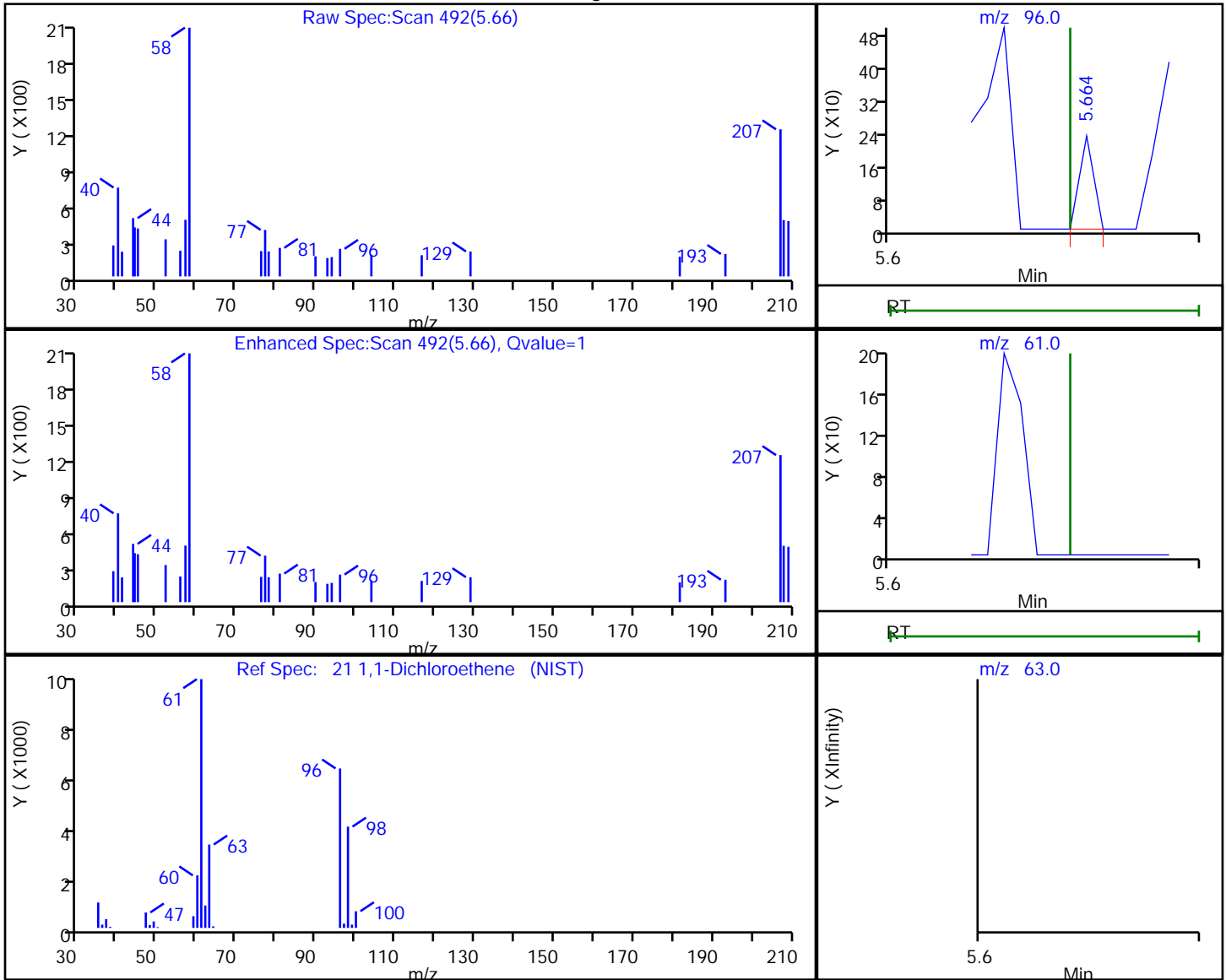
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.66 | 96.00 | 74       | 0.001451 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:30  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

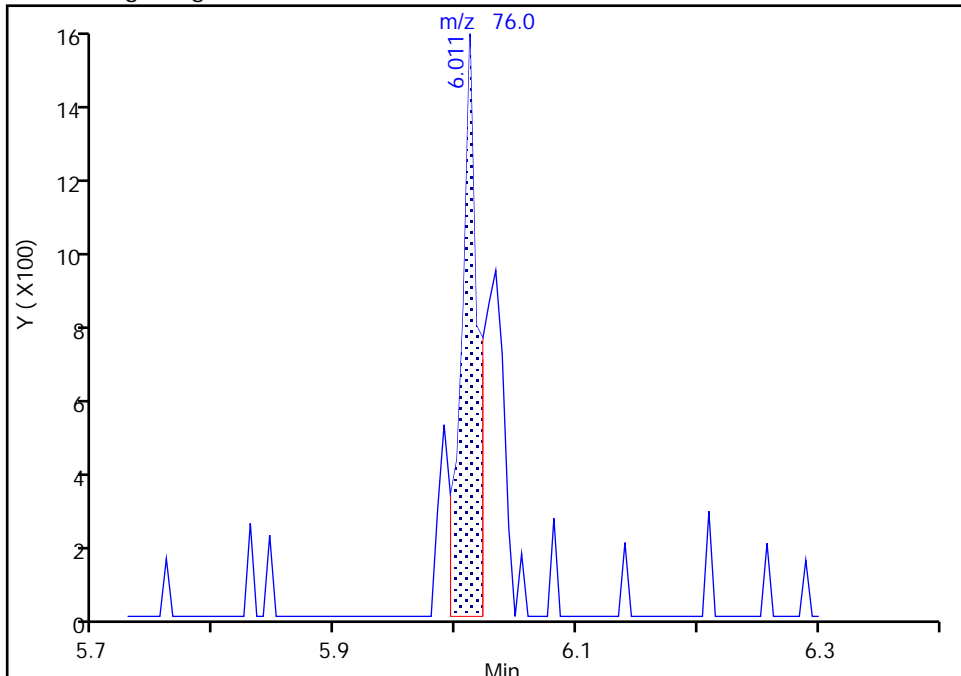
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

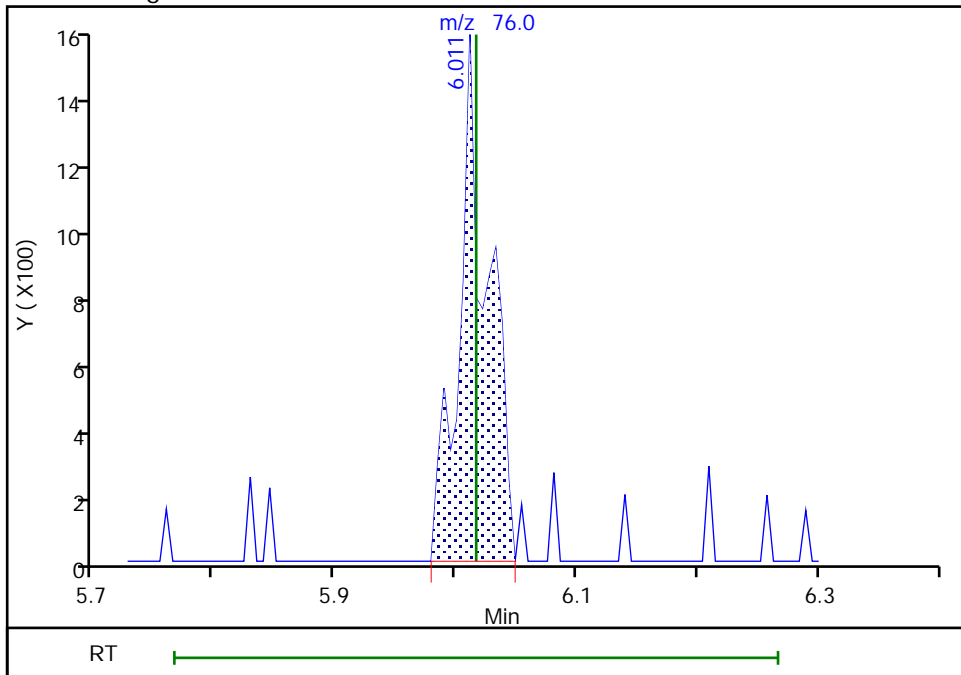
RT: 6.01  
Area: 1498  
Amount: 0.011417  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.01  
Area: 2627  
Amount: 0.020021  
Amount Units: ppb v/v

Manual Integration Results

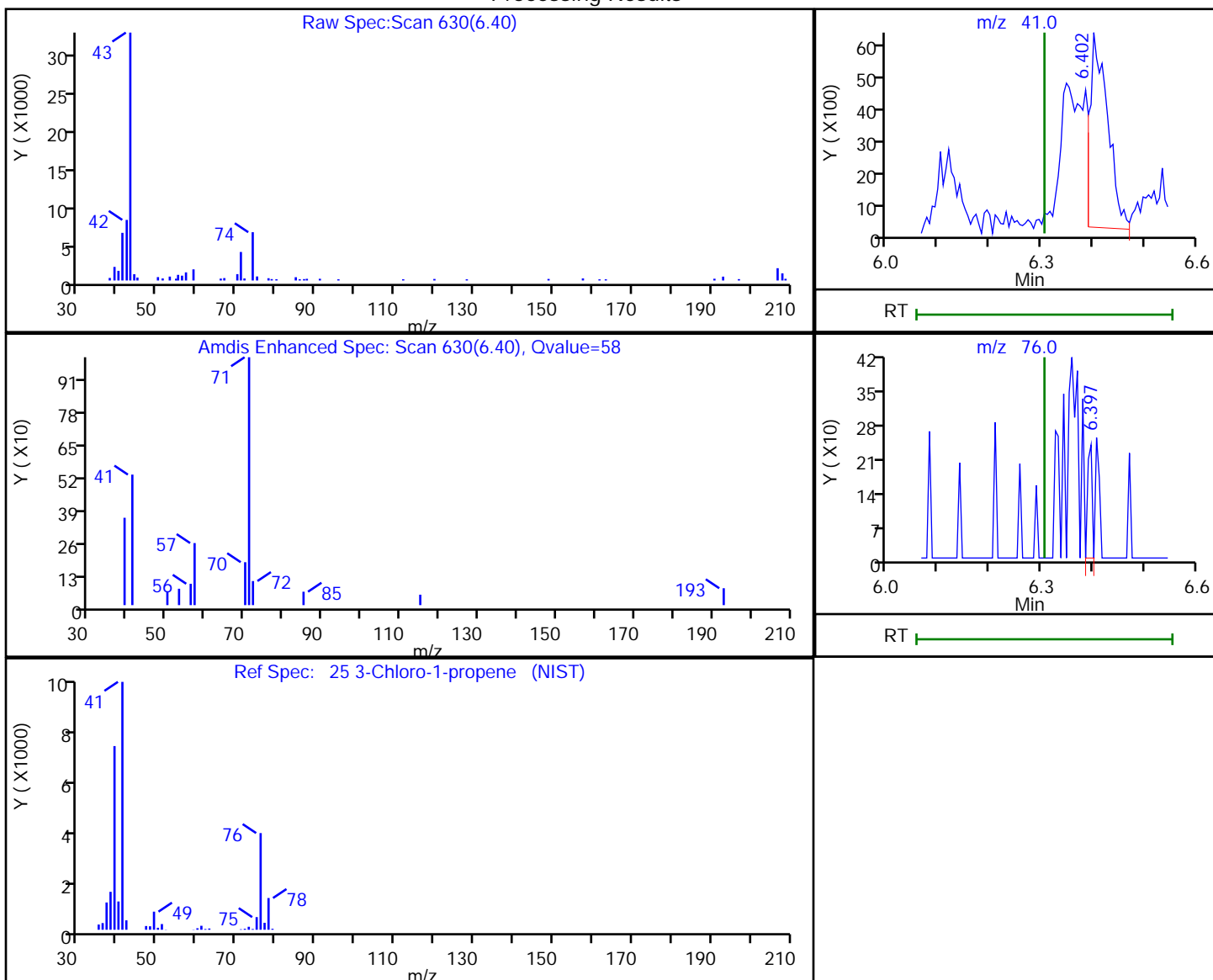


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.40 | 41.00 | 14667    | 0.386477 |
| 6.40 | 76.00 | 141      |          |

Reviewer: bunmaa, 07-Dec-2018 08:56:05

Audit Action: Marked Compound Undetected

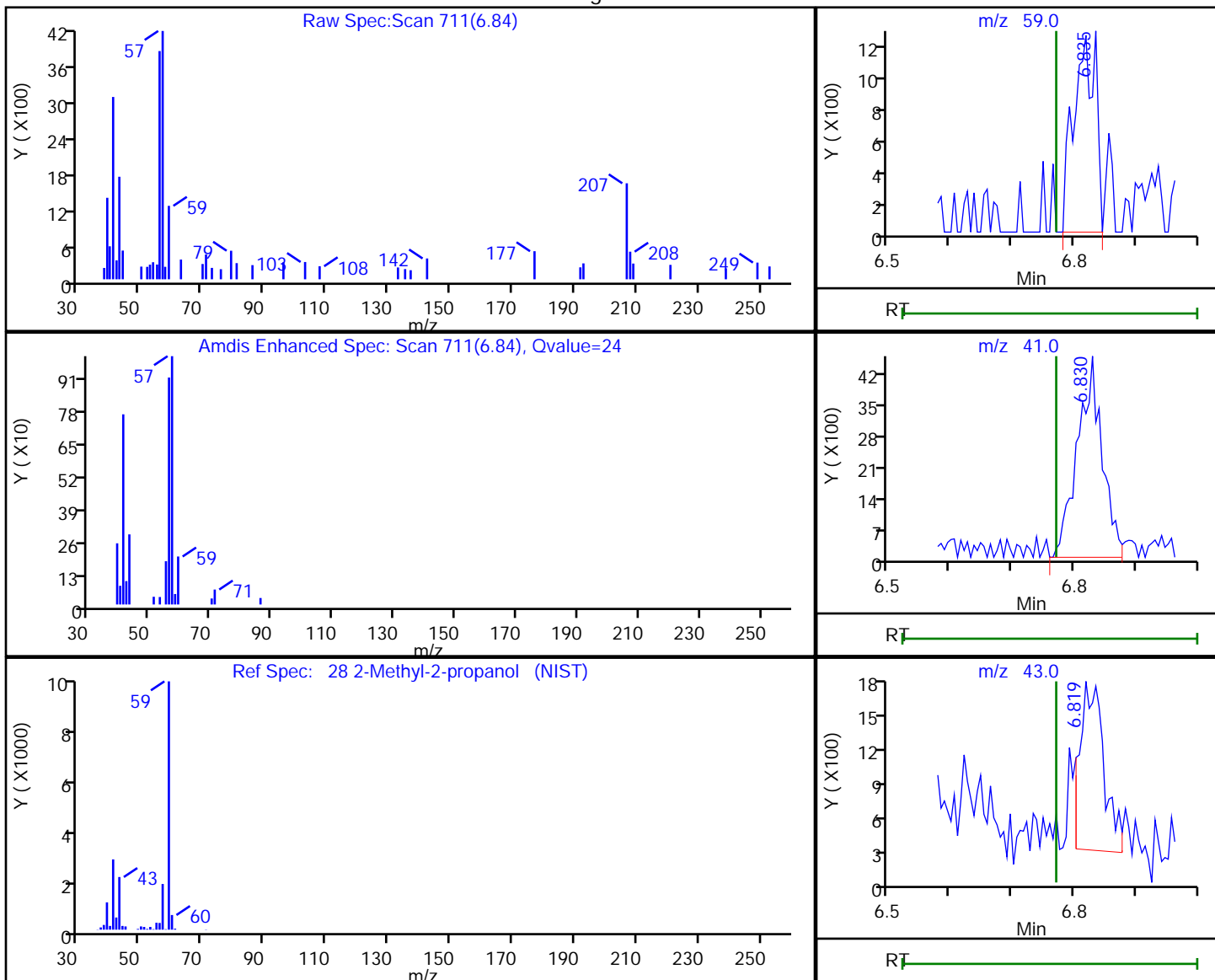
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.84 | 59.00 | 2971     | 0.040480 |
| 6.83 | 41.00 | 12582    |          |
| 6.82 | 43.00 | 3946     |          |

Reviewer: bunmaa, 07-Dec-2018 08:56:15  
 Audit Action: Marked Compound Undetected

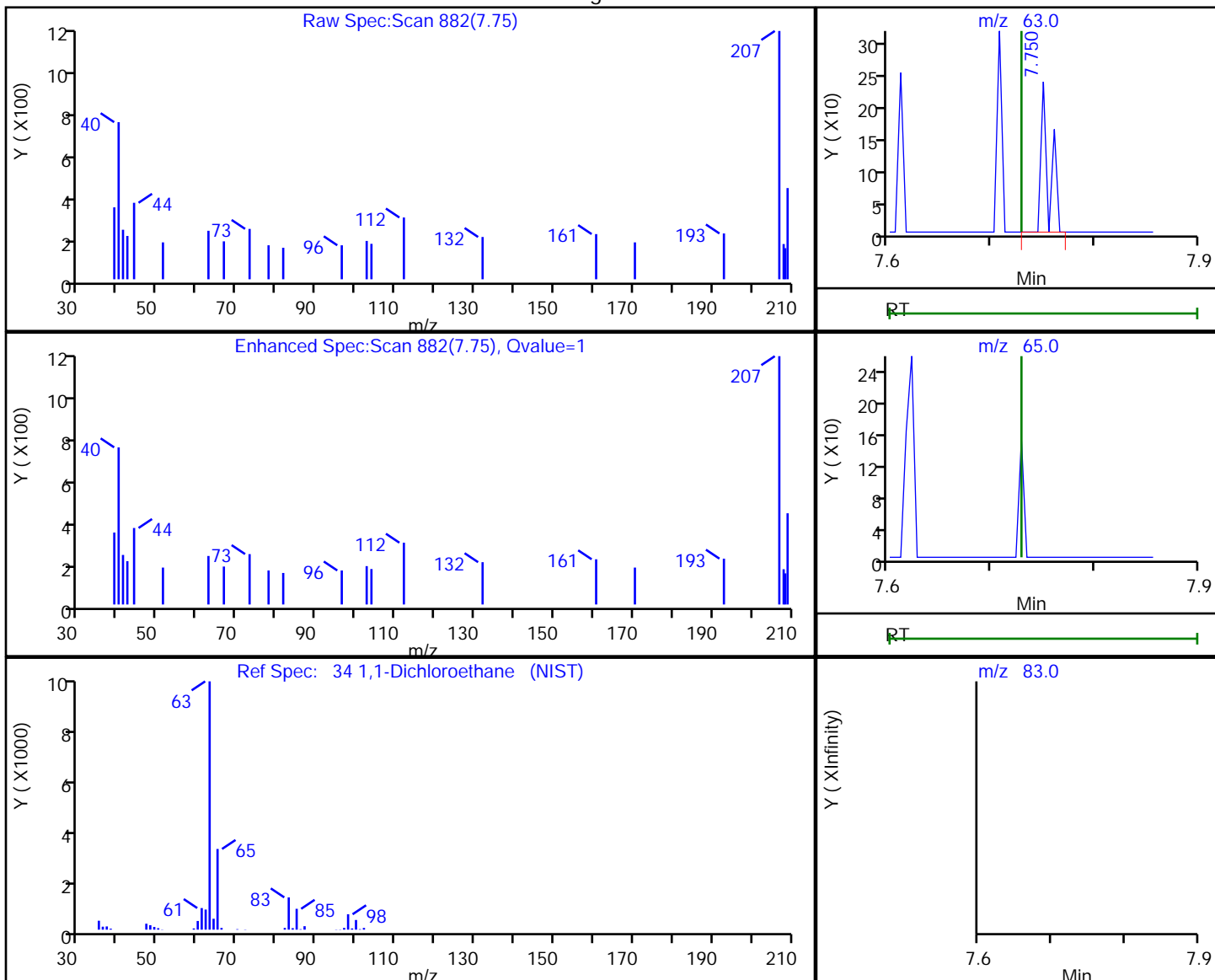
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.75 | 63.00 | 126      | 0.001580 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:45  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

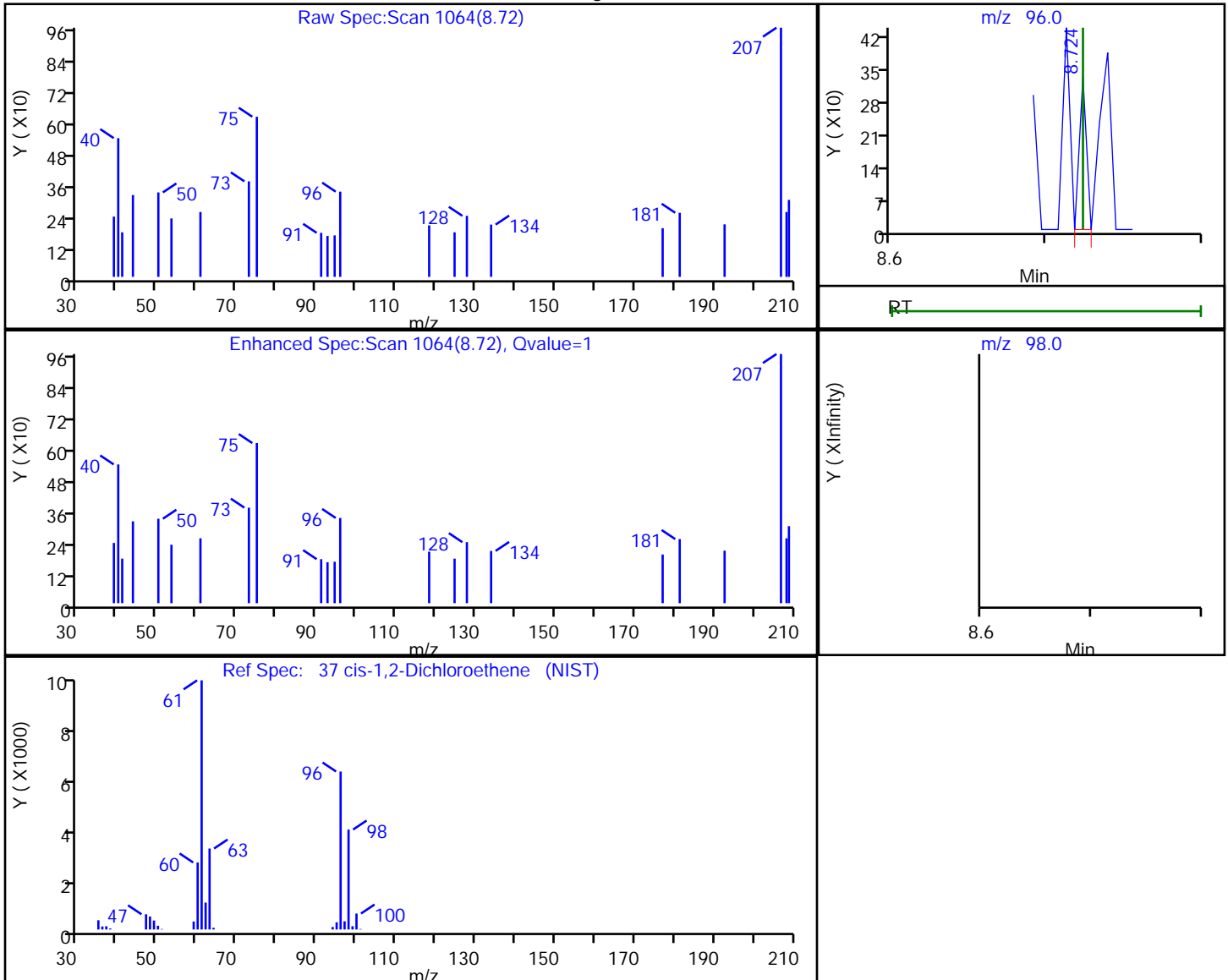


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.72 | 96.00 | 106      | 0.002194 |
| 8.72 | 98.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:46  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

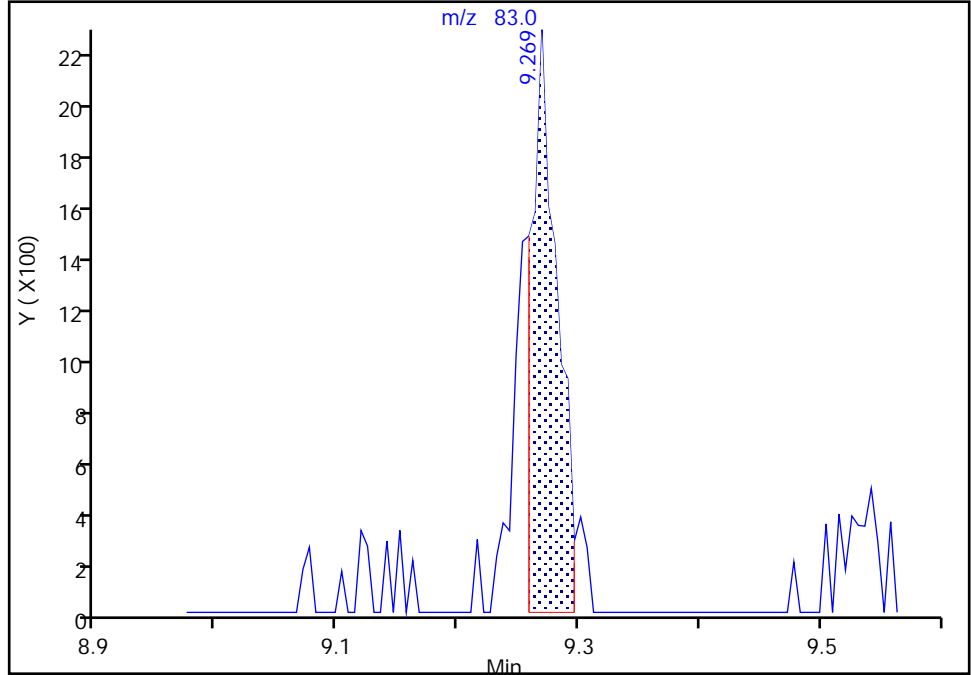
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

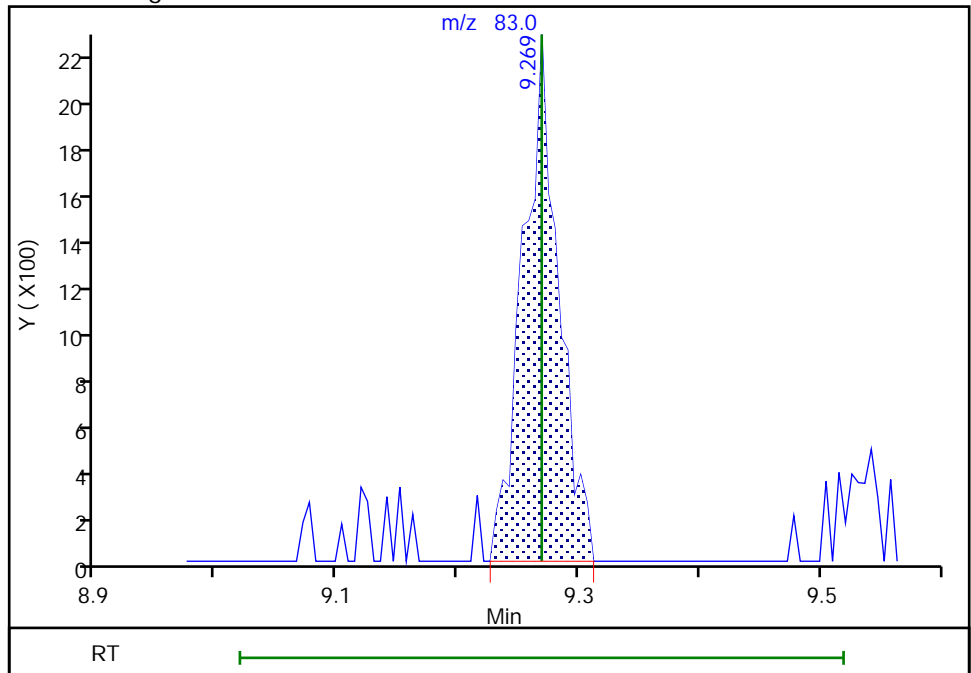
RT: 9.27  
Area: 3372  
Amount: 0.028930  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.27  
Area: 4646  
Amount: 0.039860  
Amount Units: ppb v/v

Manual Integration Results

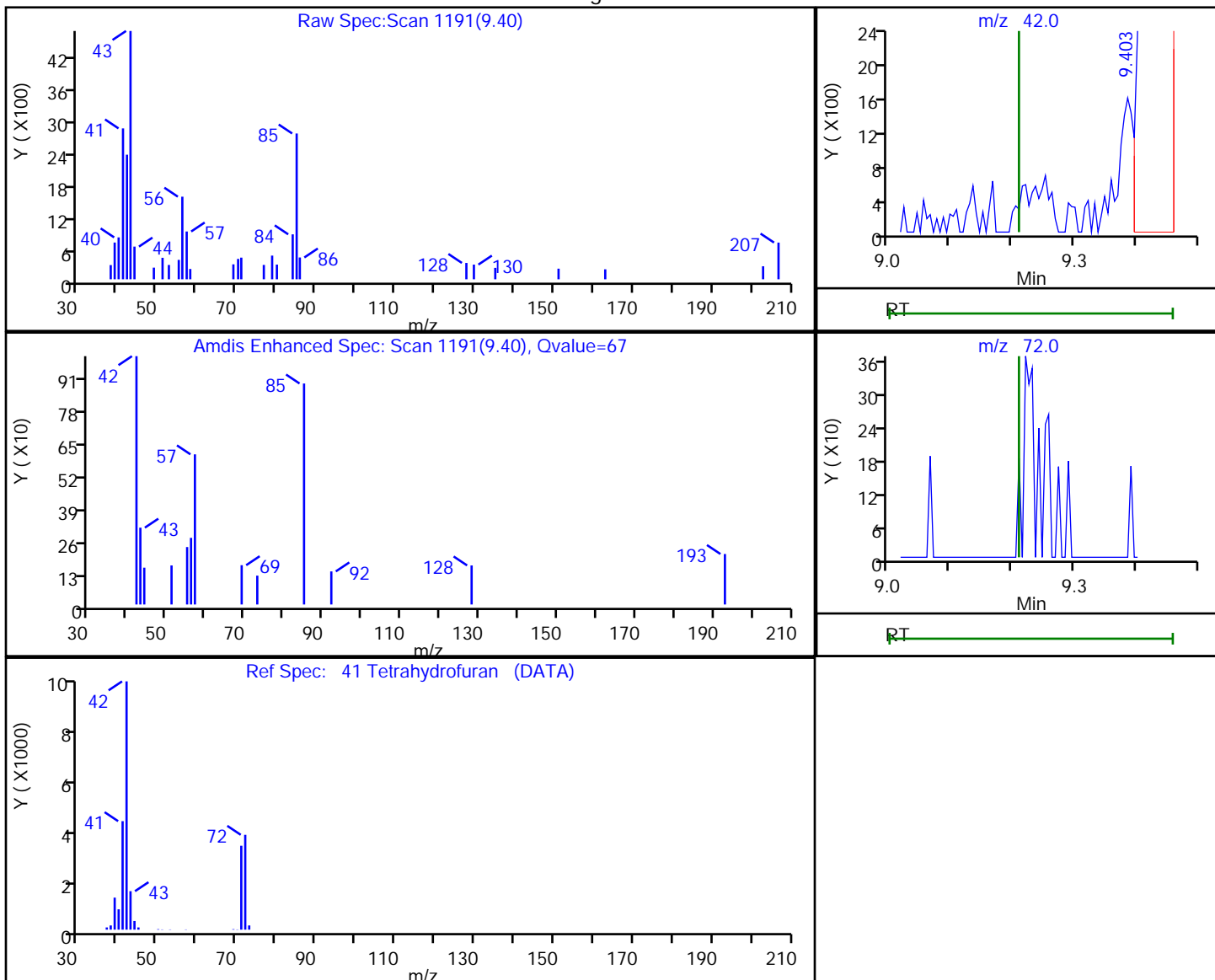


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.40 | 42.00 | 3657     | 0.133354 |
| 9.21 | 72.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:59:48

Audit Action: Marked Compound Undetected

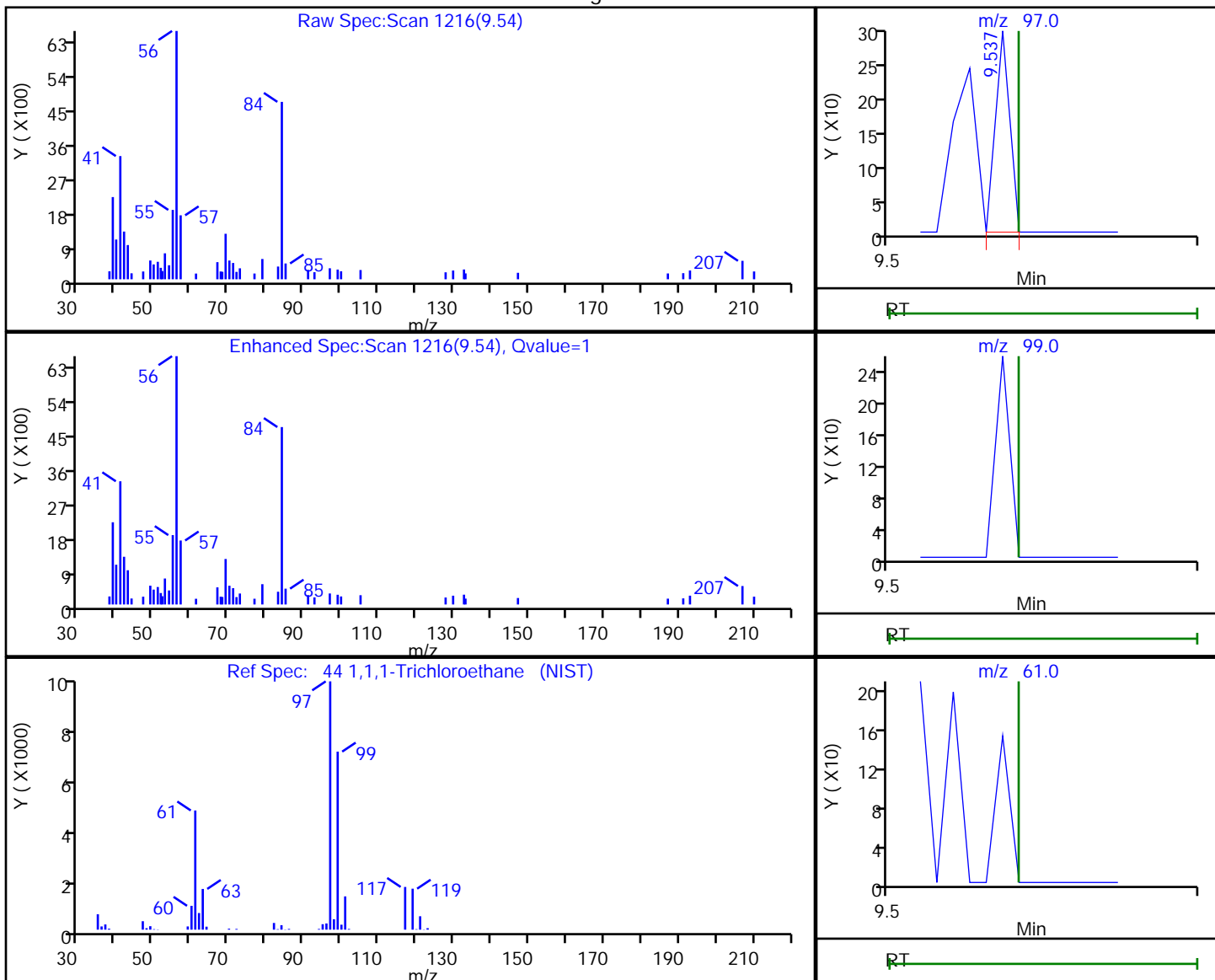
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.54 | 97.00 | 93       | 0.000696 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:14  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

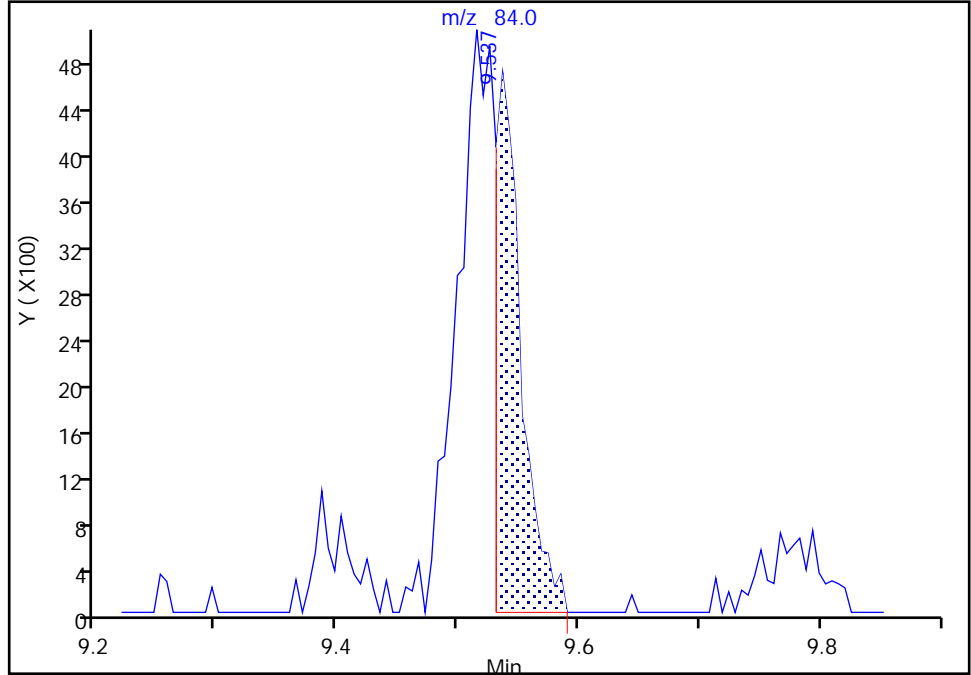
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

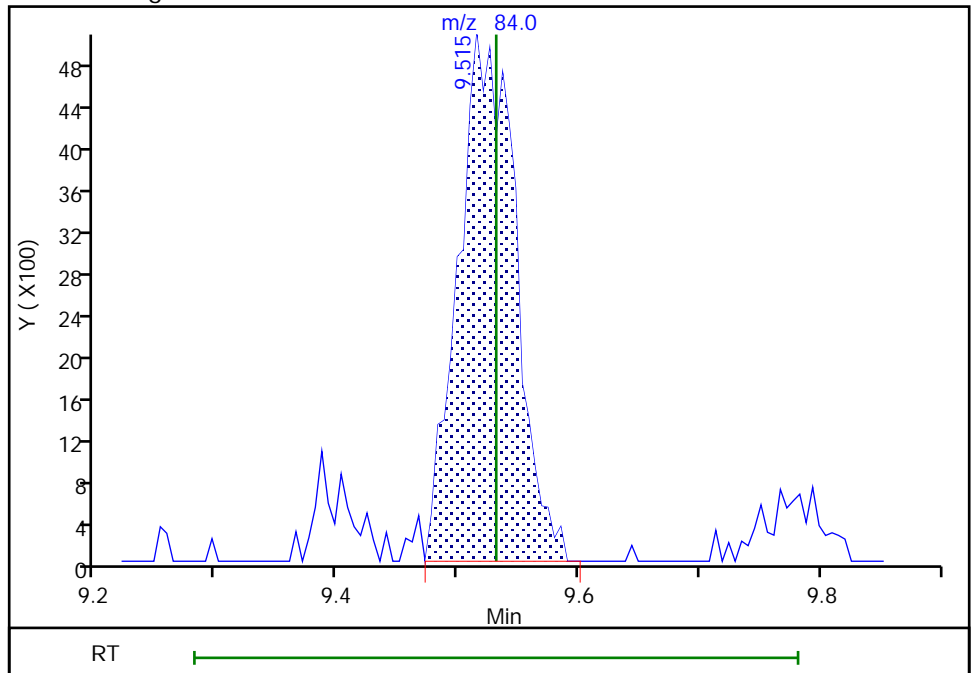
RT: 9.54  
Area: 7113  
Amount: 0.128918  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.52  
Area: 16714  
Amount: 0.302928  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 12:00:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

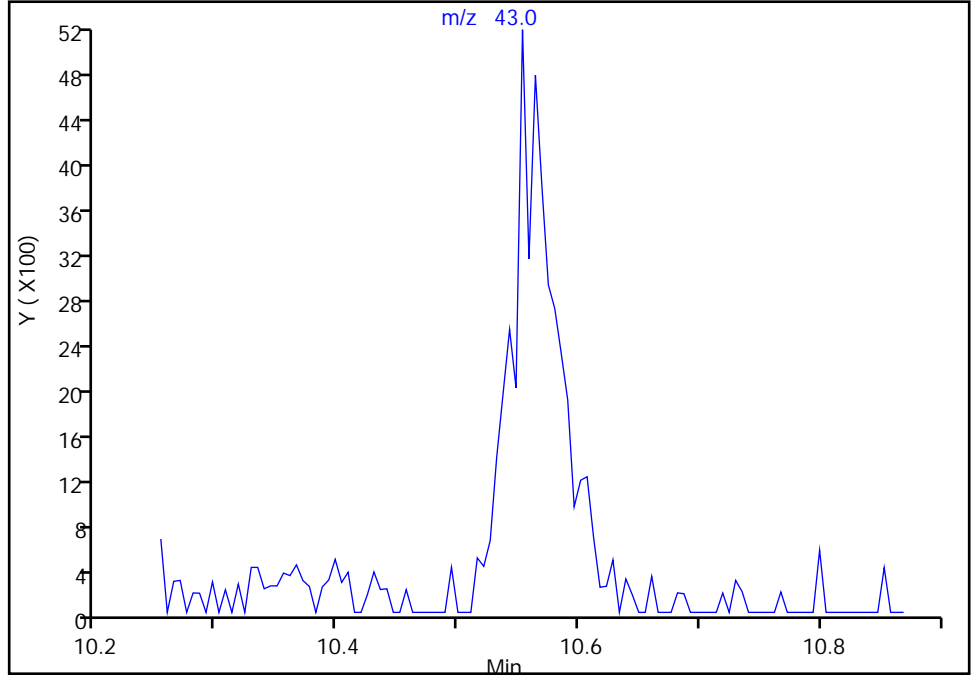
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

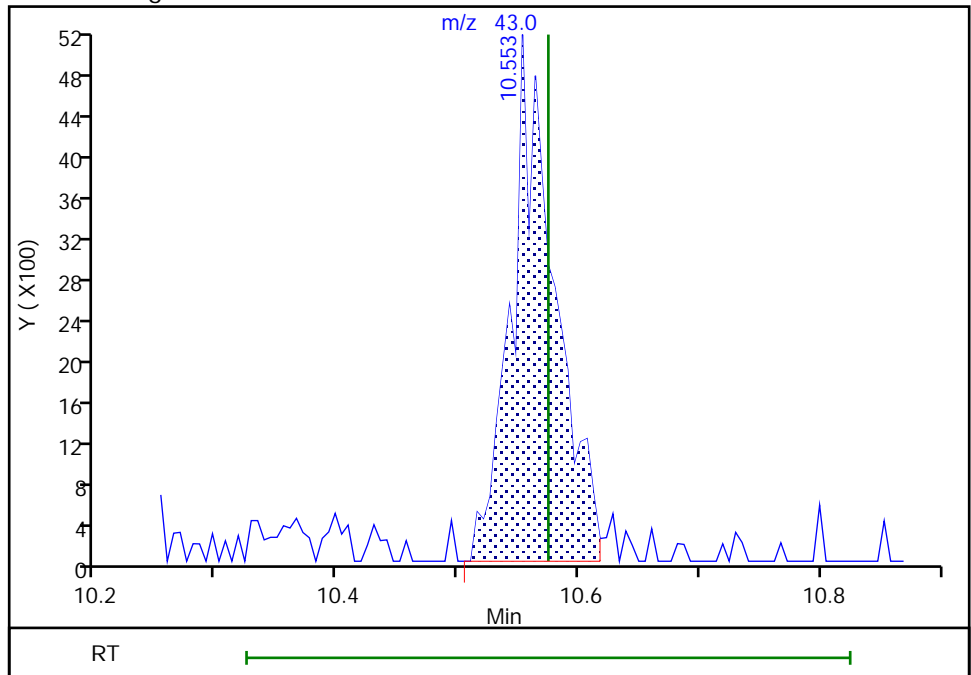
Not Detected  
Expected RT: 10.57

Processing Integration Results



Manual Integration Results

RT: 10.55  
Area: 12736  
Amount: 0.193381  
Amount Units: ppb v/v



Reviewer: bunmaa, 07-Dec-2018 08:56:59  
Audit Action: Manually Integrated

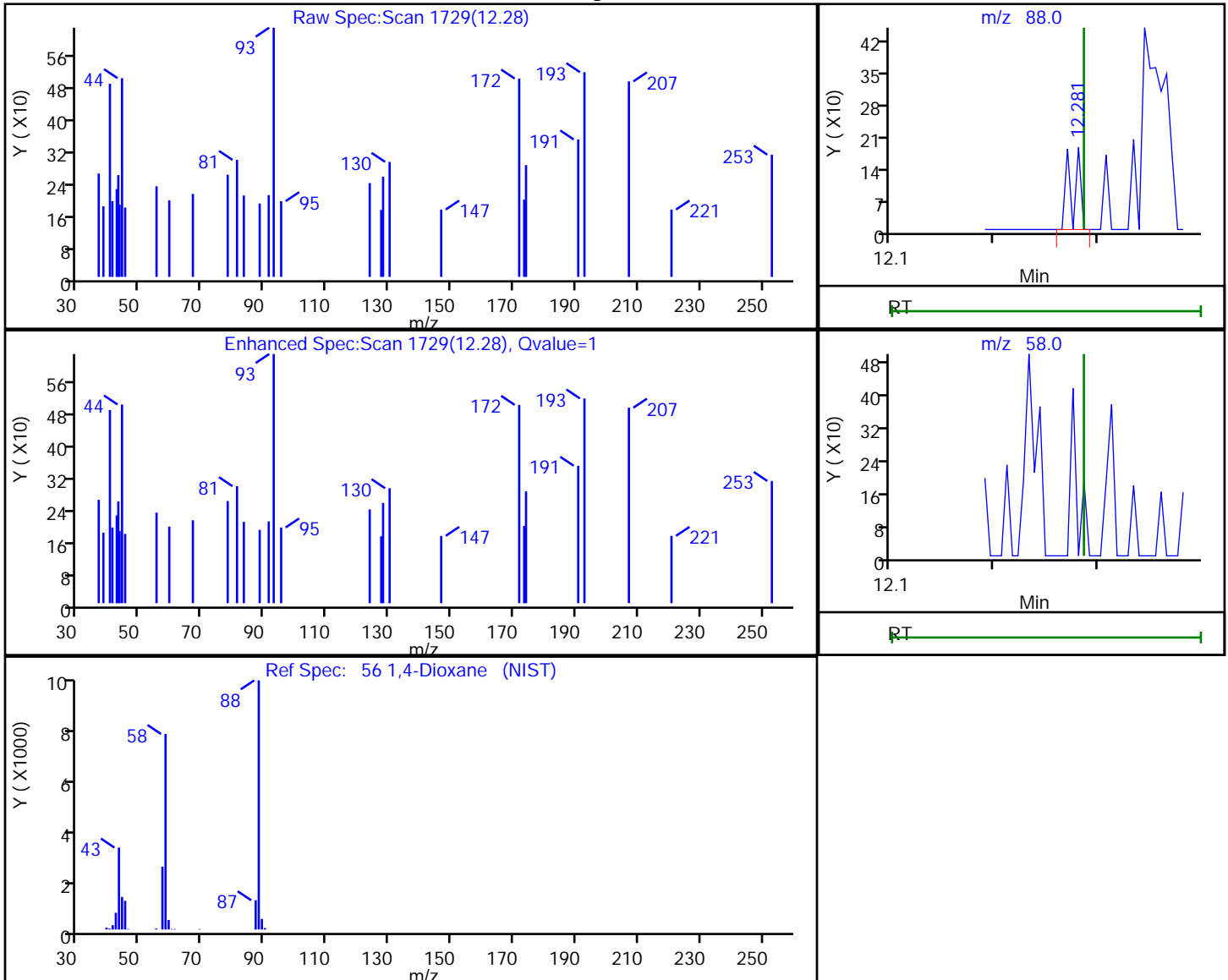
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.28 | 88.00 | 117      | 0.004973 |
| 12.29 | 58.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:20

Audit Action: Marked Compound Undetected

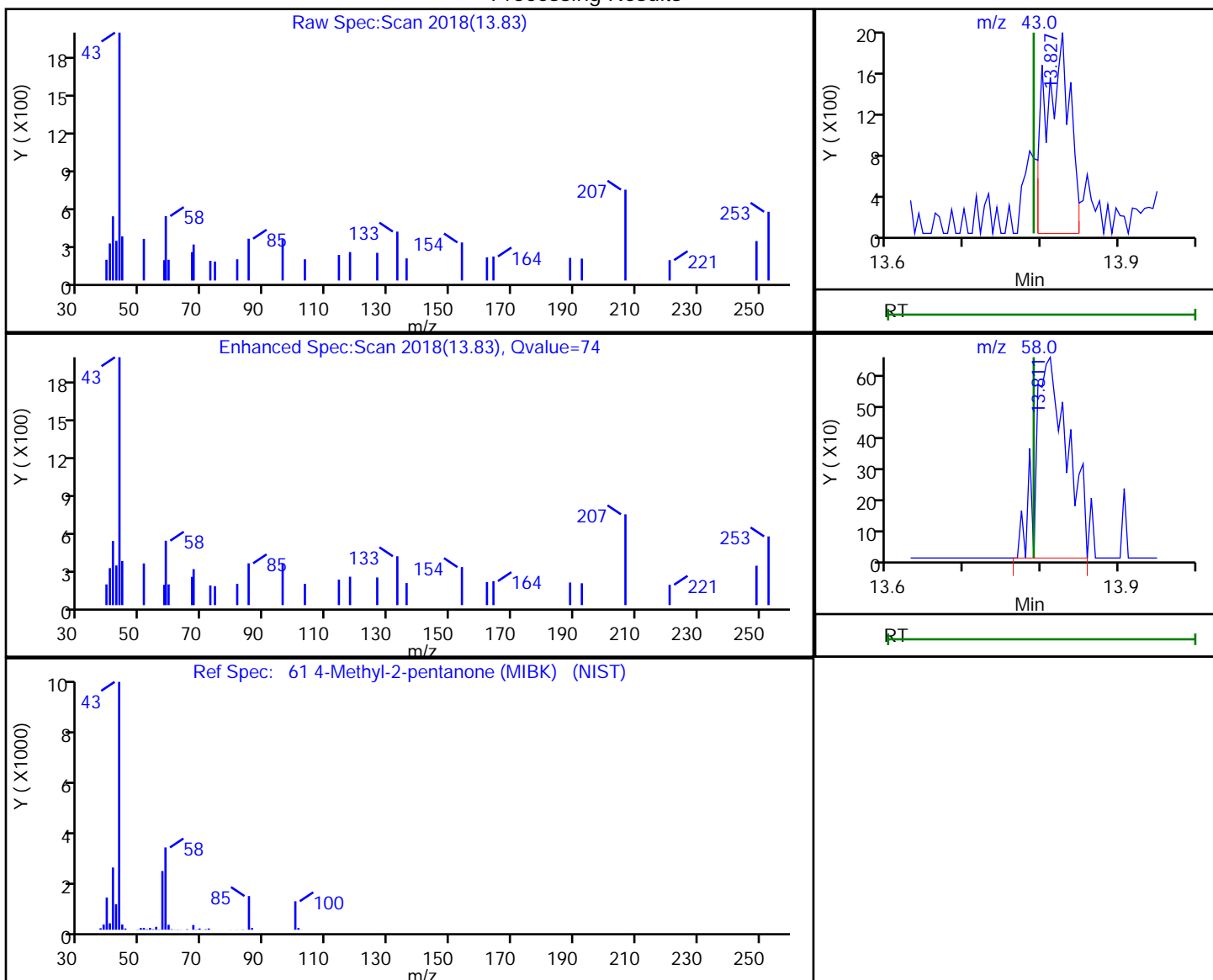
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.83 | 43.00 | 4192     | 0.050363 |
| 13.81 | 58.00 | 1872     |          |

Reviewer: bunmaa, 07-Dec-2018 08:57:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

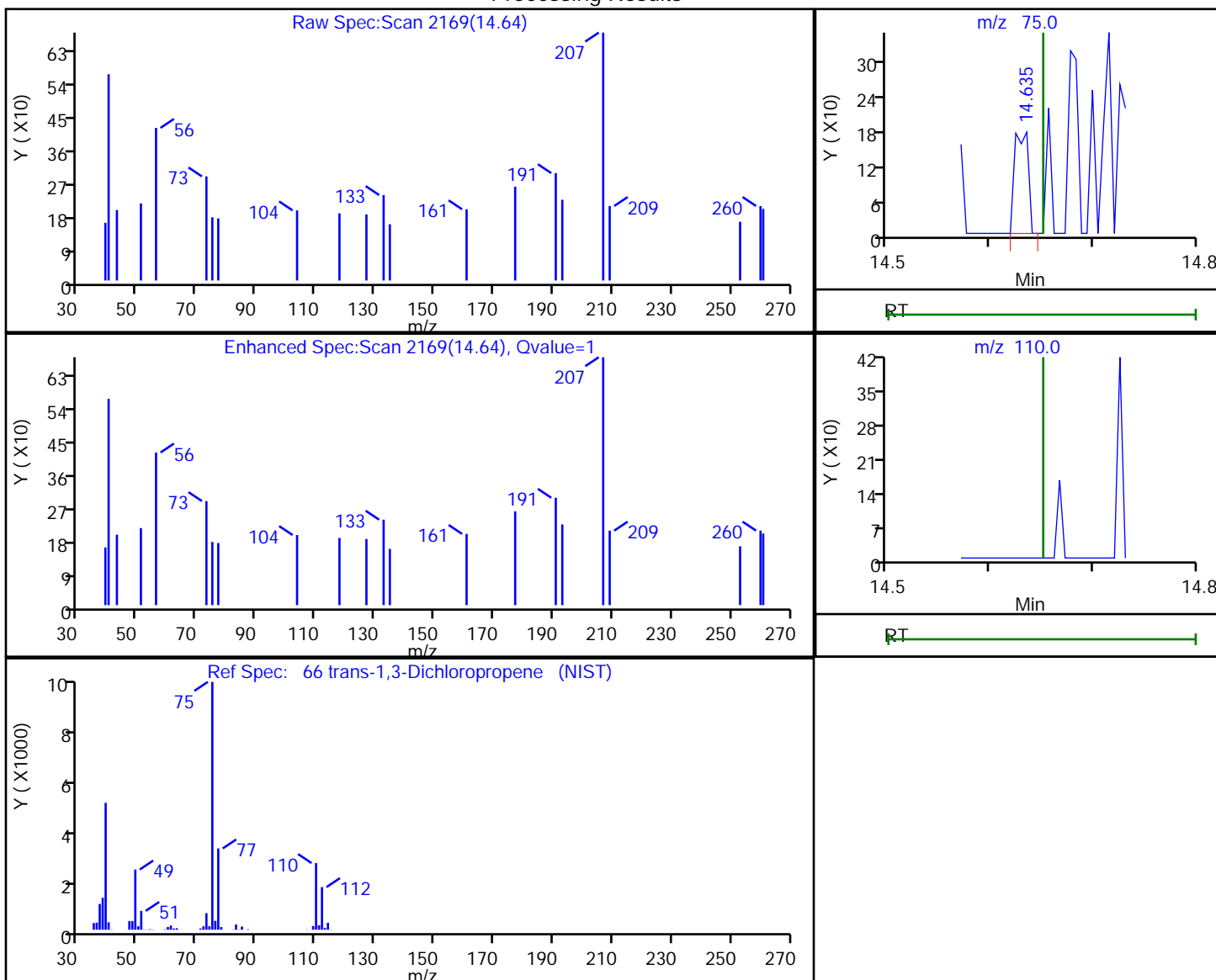


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.64 | 75.00  | 160      | 0.002020 |
| 14.65 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:33

Audit Action: Marked Compound Undetected

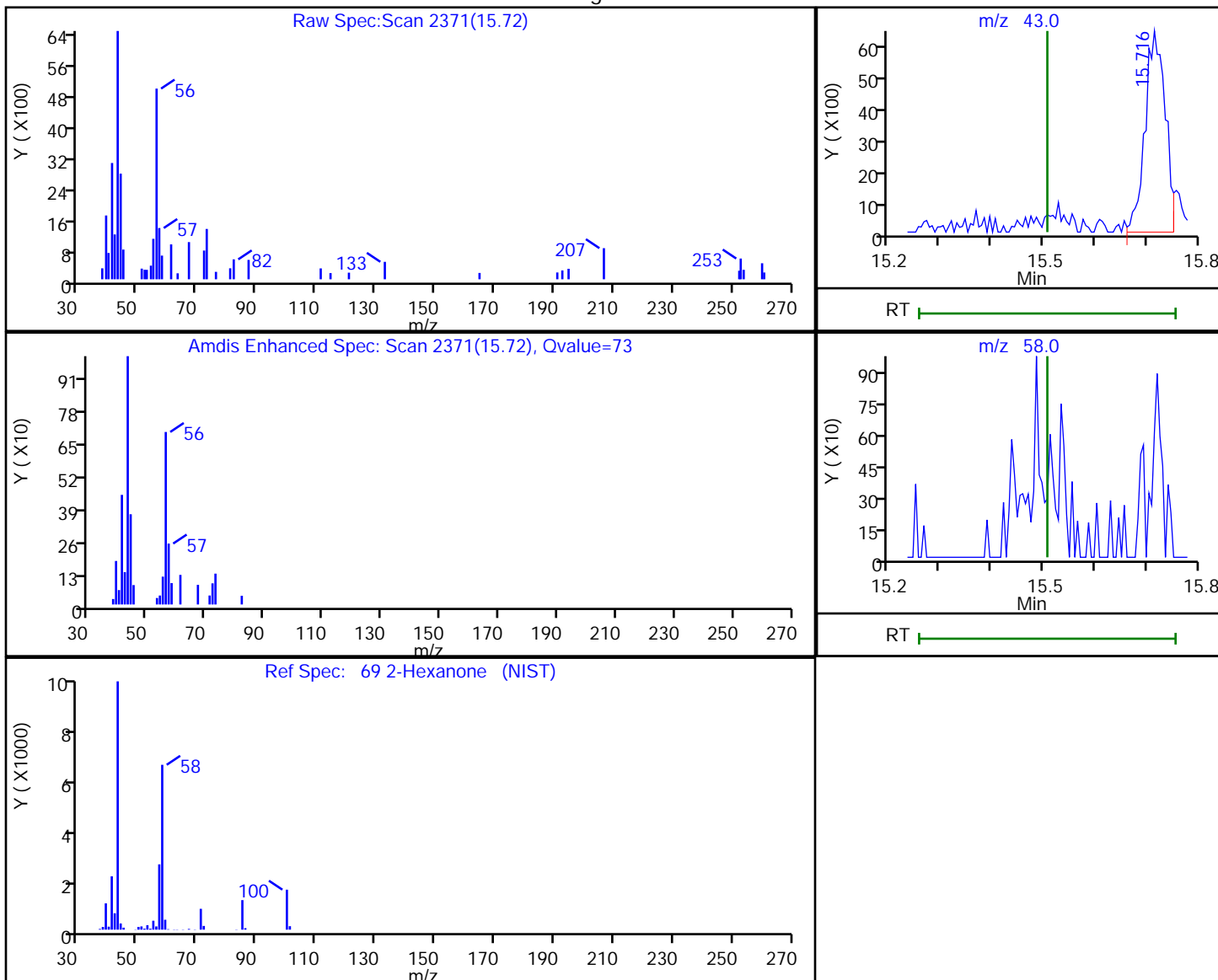
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.72 | 43.00 | 17549    | 0.205311 |
| 15.51 | 58.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:35  
Audit Action: Marked Compound Undetected

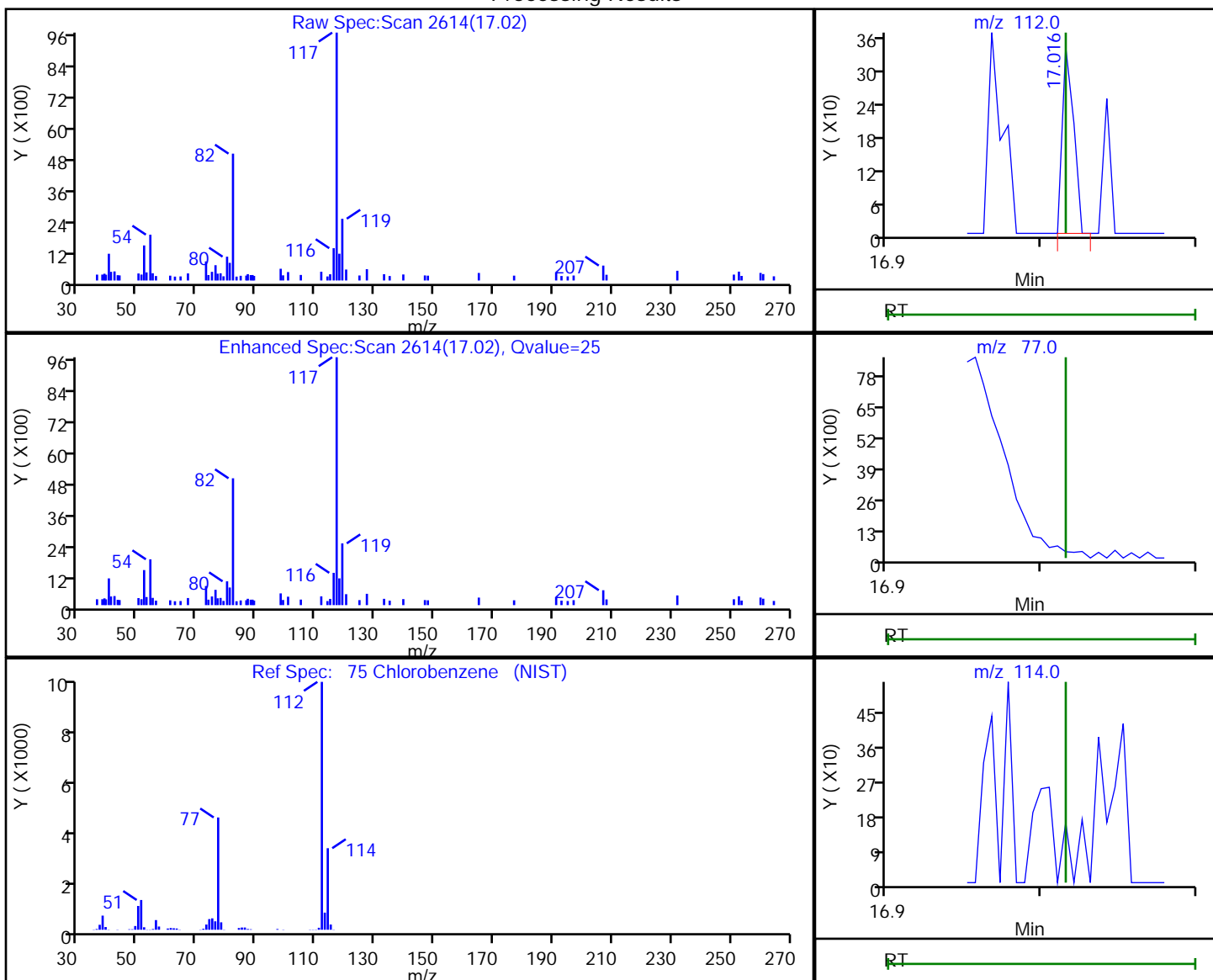
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.02 | 112.00 | 175      | 0.001170 |
| 17.02 | 77.00  | 0        |          |
| 17.02 | 114.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 08:57:54  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

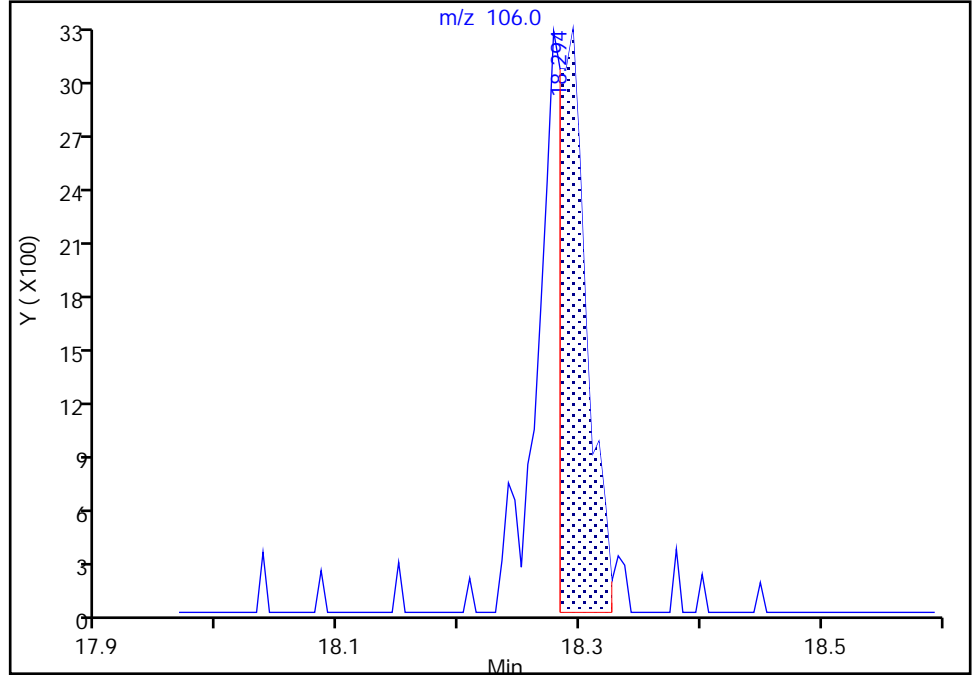
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Signal: 1

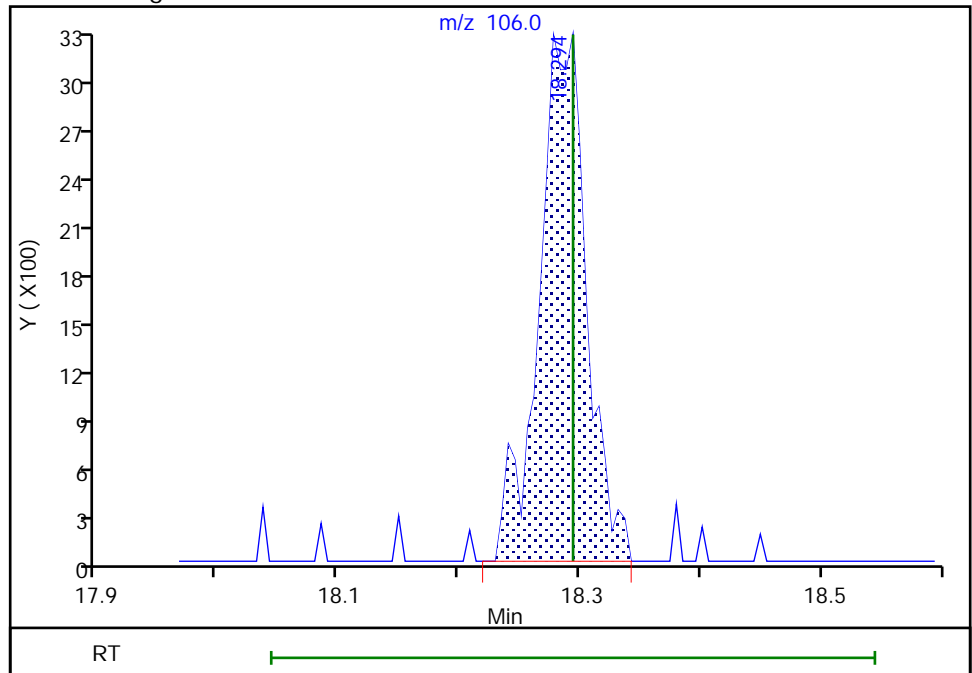
RT: 18.29  
Area: 5160  
Amount: 0.061162  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.29  
Area: 8884  
Amount: 0.105304  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 12:00:43  
Audit Action: Manually Integrated

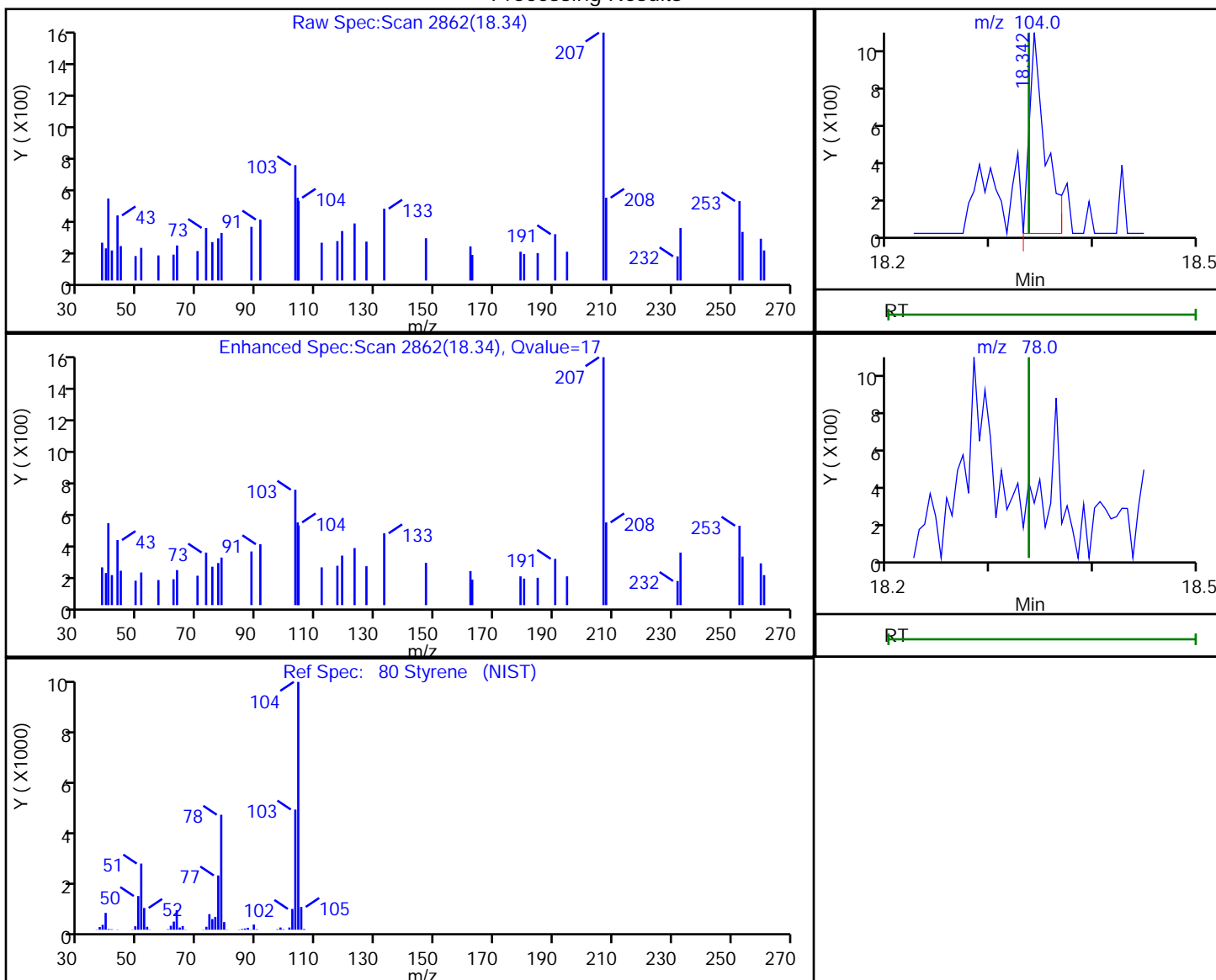
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.34 | 104.00 | 1071     | 0.008293 |
| 18.34 | 78.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 08:58:24

Audit Action: Marked Compound Undetected

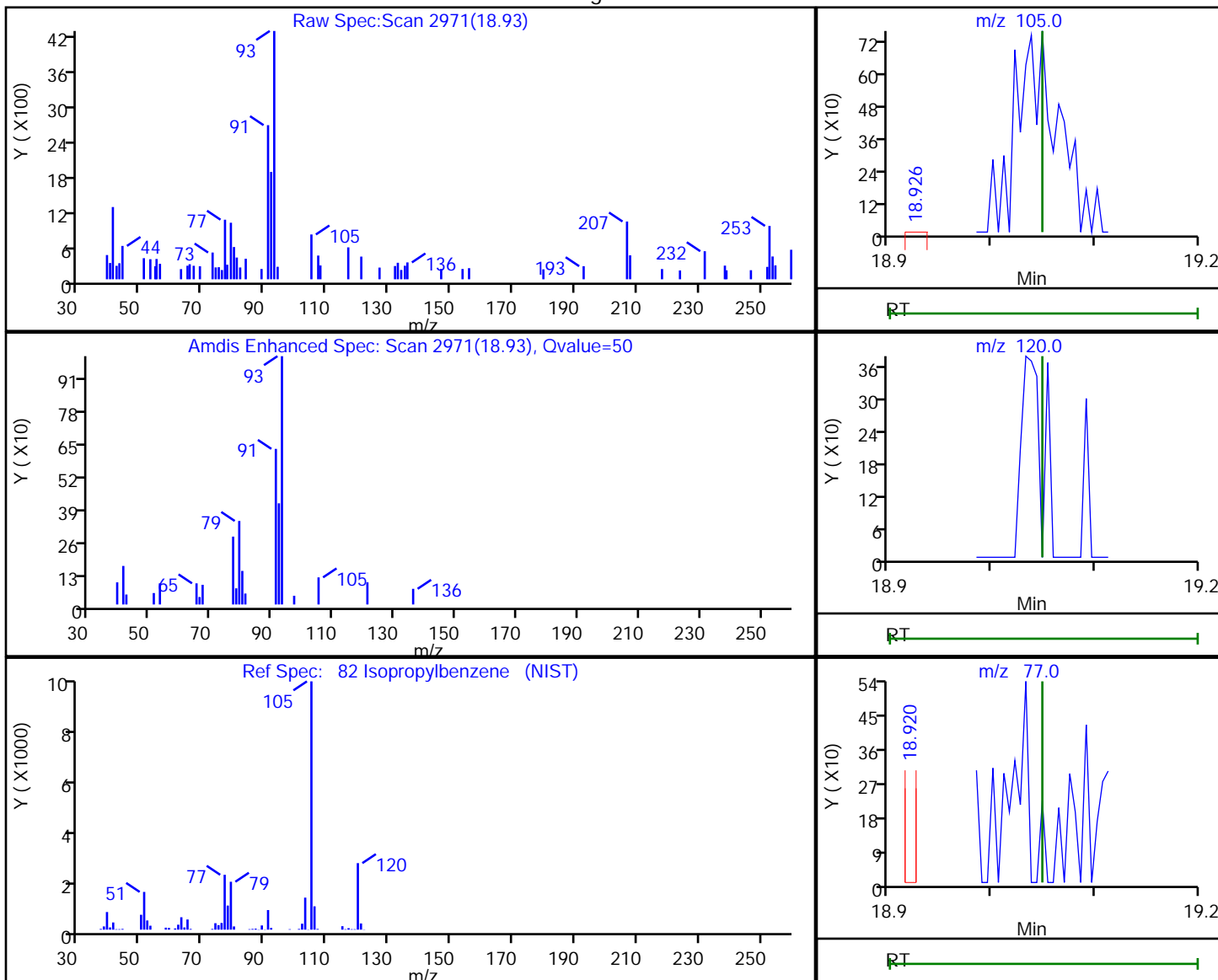
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.93 | 105.00 | 721      | 0.002923 |
| 19.05 | 120.00 | 0        |          |
| 18.92 | 77.00  | 1086     |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:49  
 Audit Action: Marked Compound Undetected

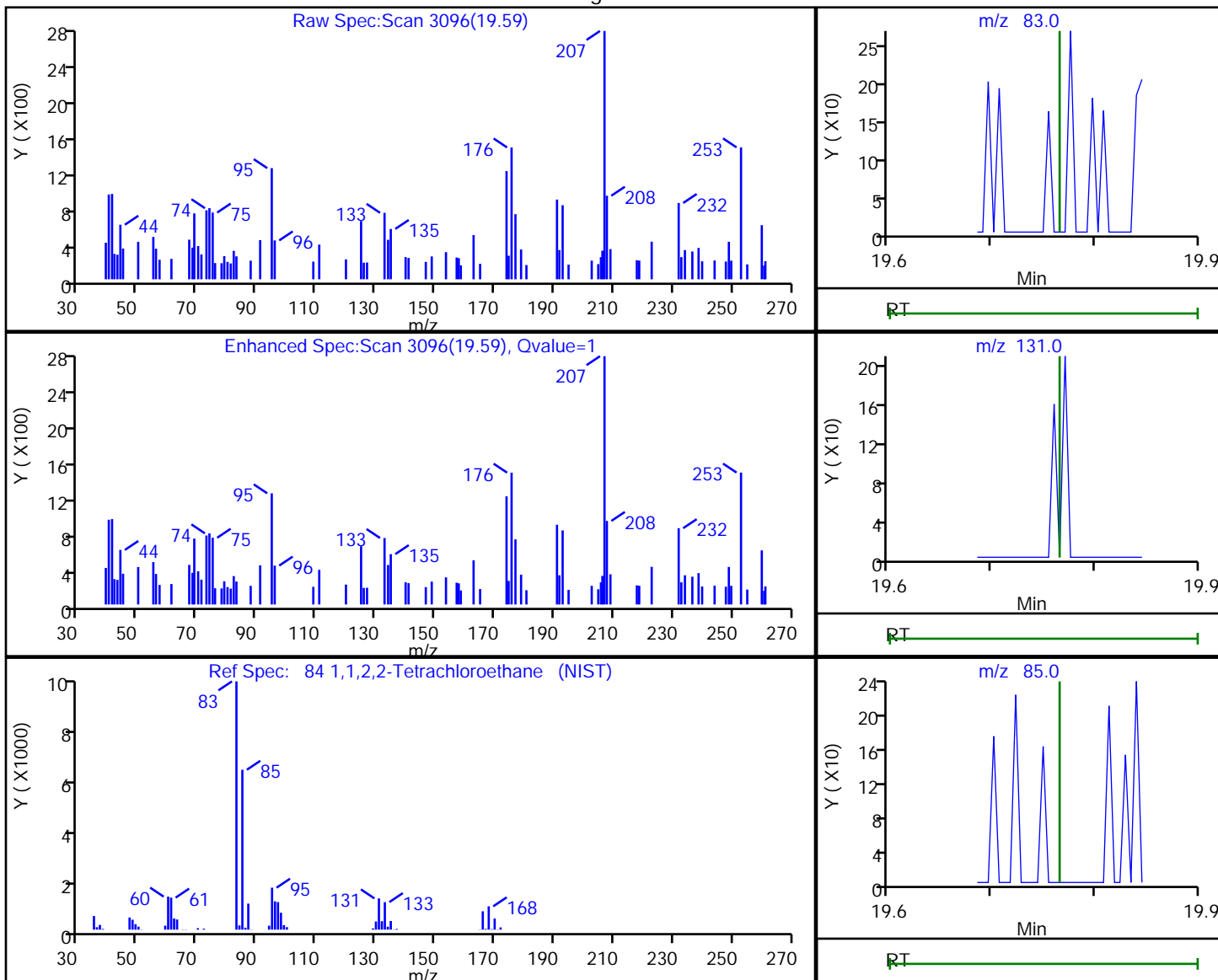
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.59 | 83.00  | 280      | 0.002080 |
| 19.77 | 131.00 | 0        |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:50  
 Audit Action: Marked Compound Undetected

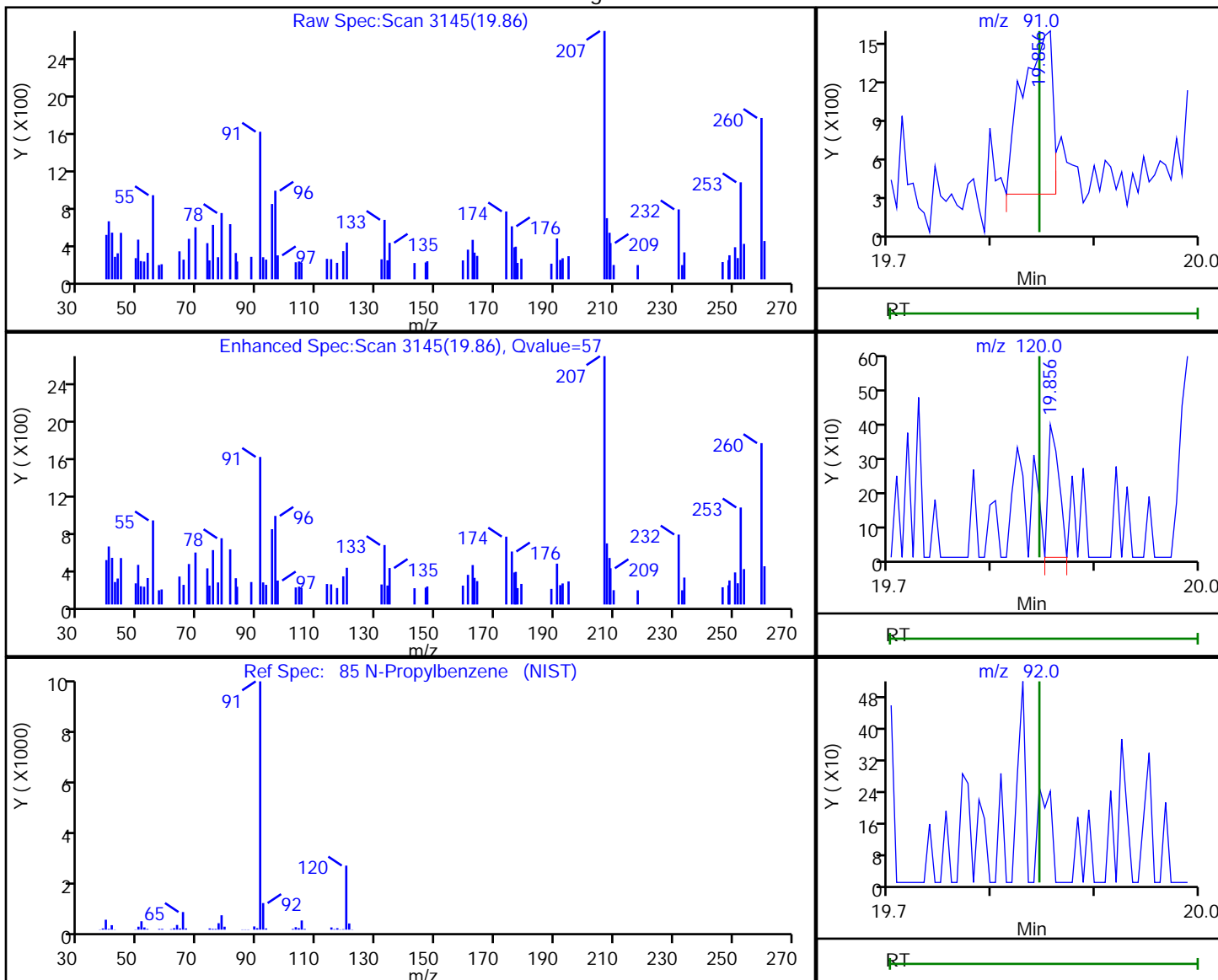
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.86 | 91.00  | 2578     | 0.008776 |
| 19.86 | 120.00 | 283      |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:51  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

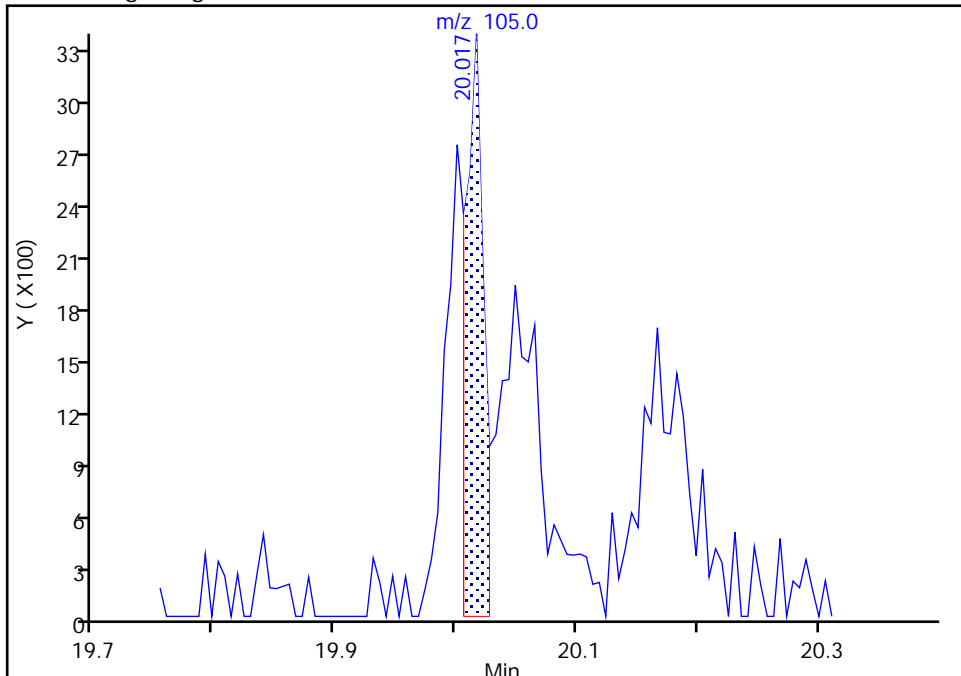
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

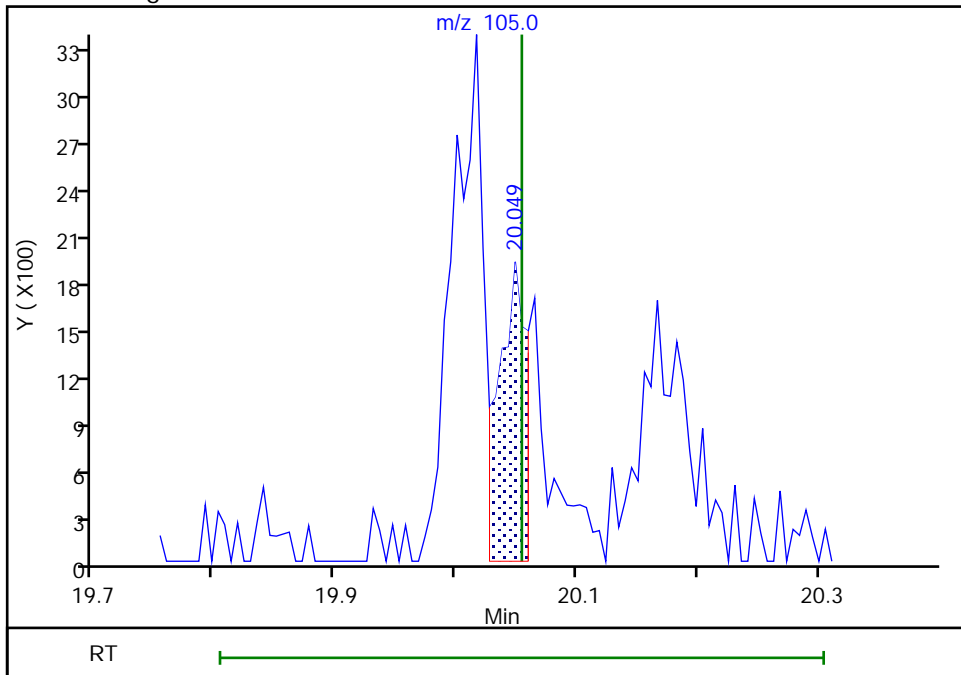
RT: 20.02  
Area: 3641  
Amount: 0.014560  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.05  
Area: 3128  
Amount: 0.012509  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 08:58:48  
Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Burlington

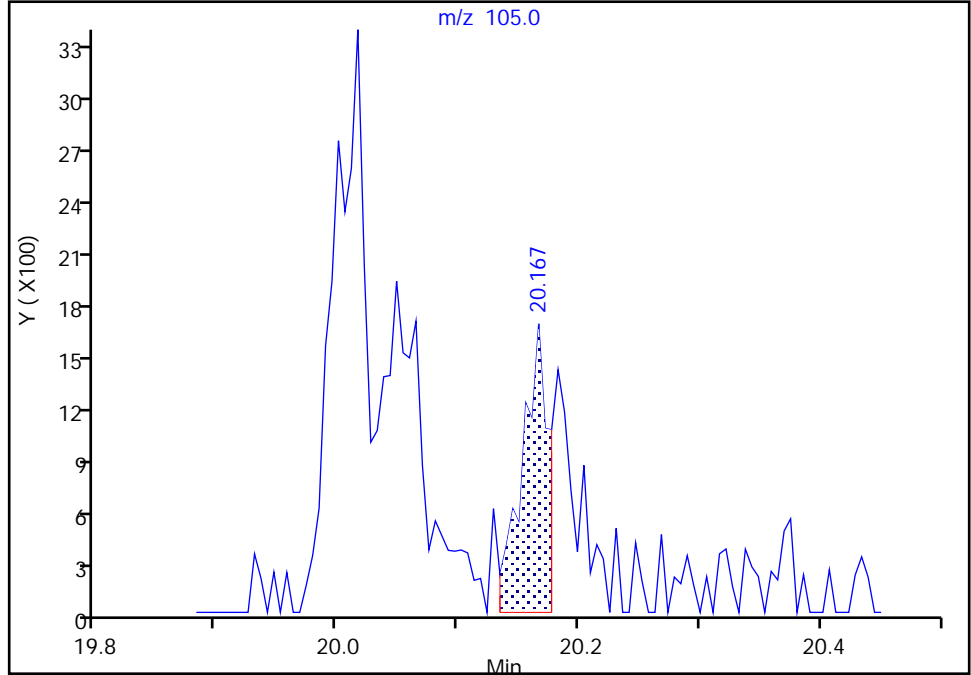
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Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

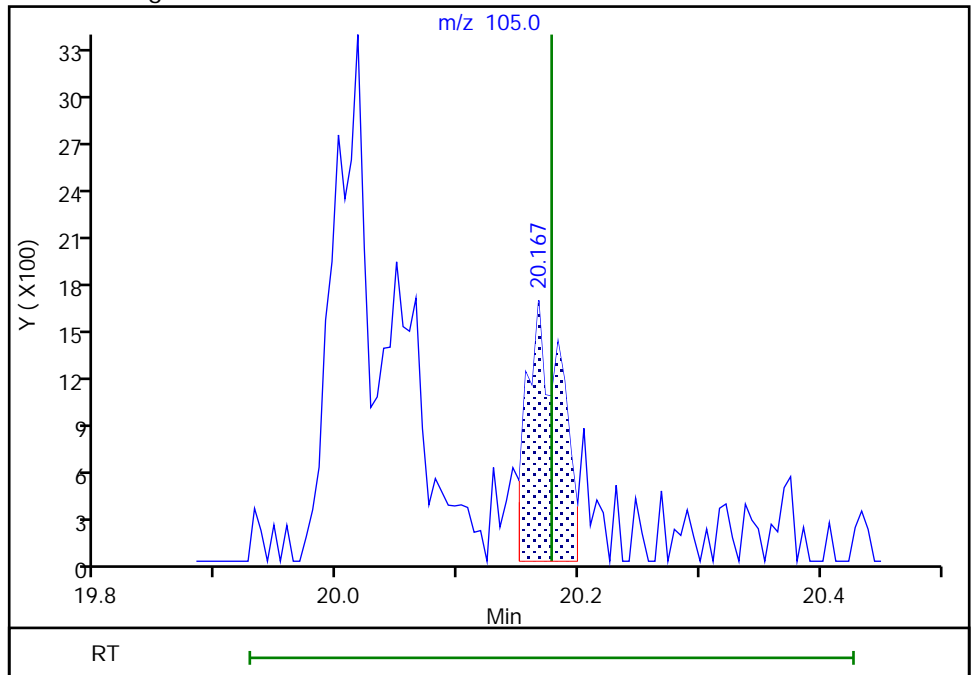
RT: 20.17  
Area: 2537  
Amount: 0.011858  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.17  
Area: 3319  
Amount: 0.015513  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 08:59:26  
Audit Action: Manually Integrated

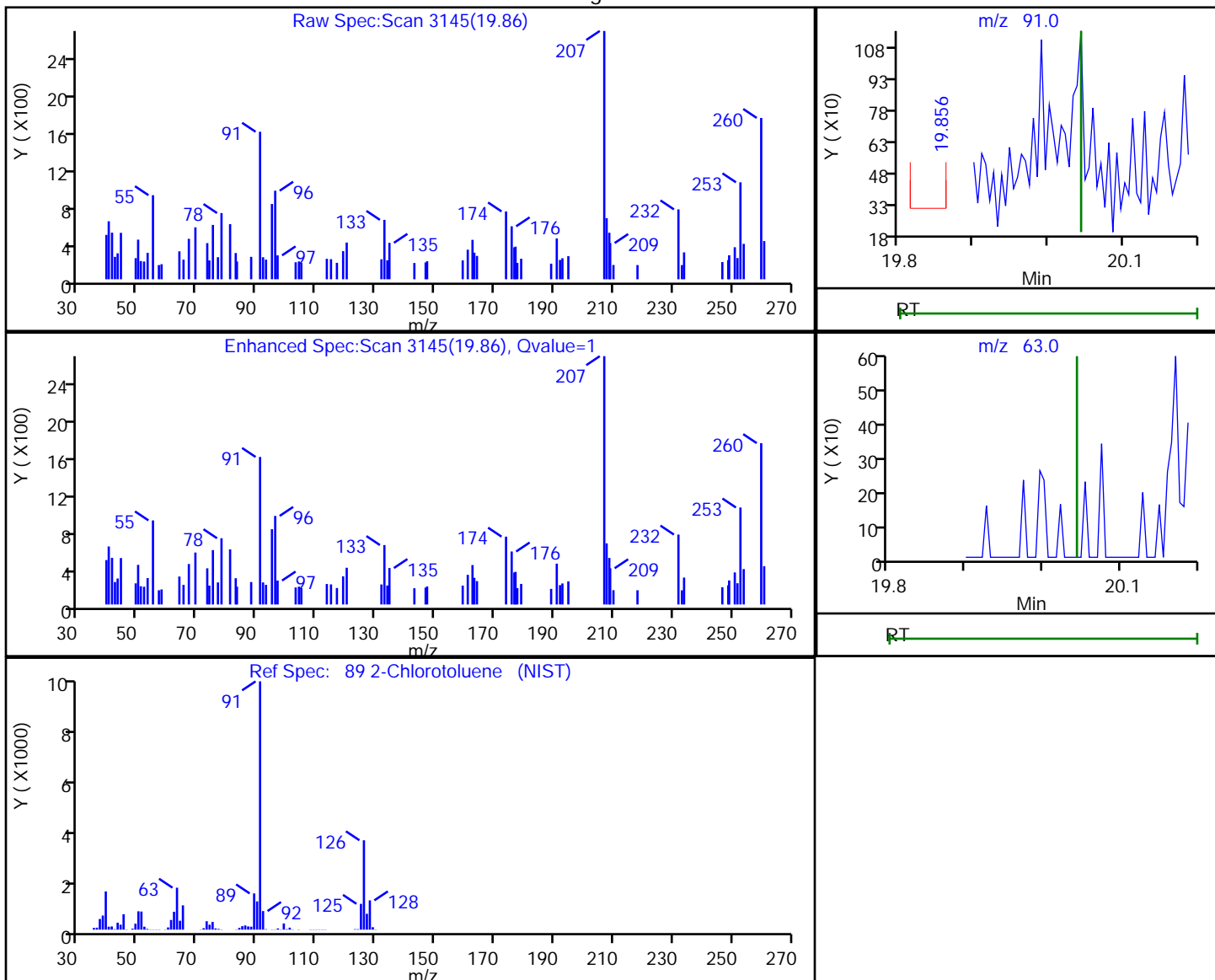
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 19.86 | 91.00 | 2578     | 0.011621 |
| 20.04 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:00:52  
Audit Action: Marked Compound Undetected

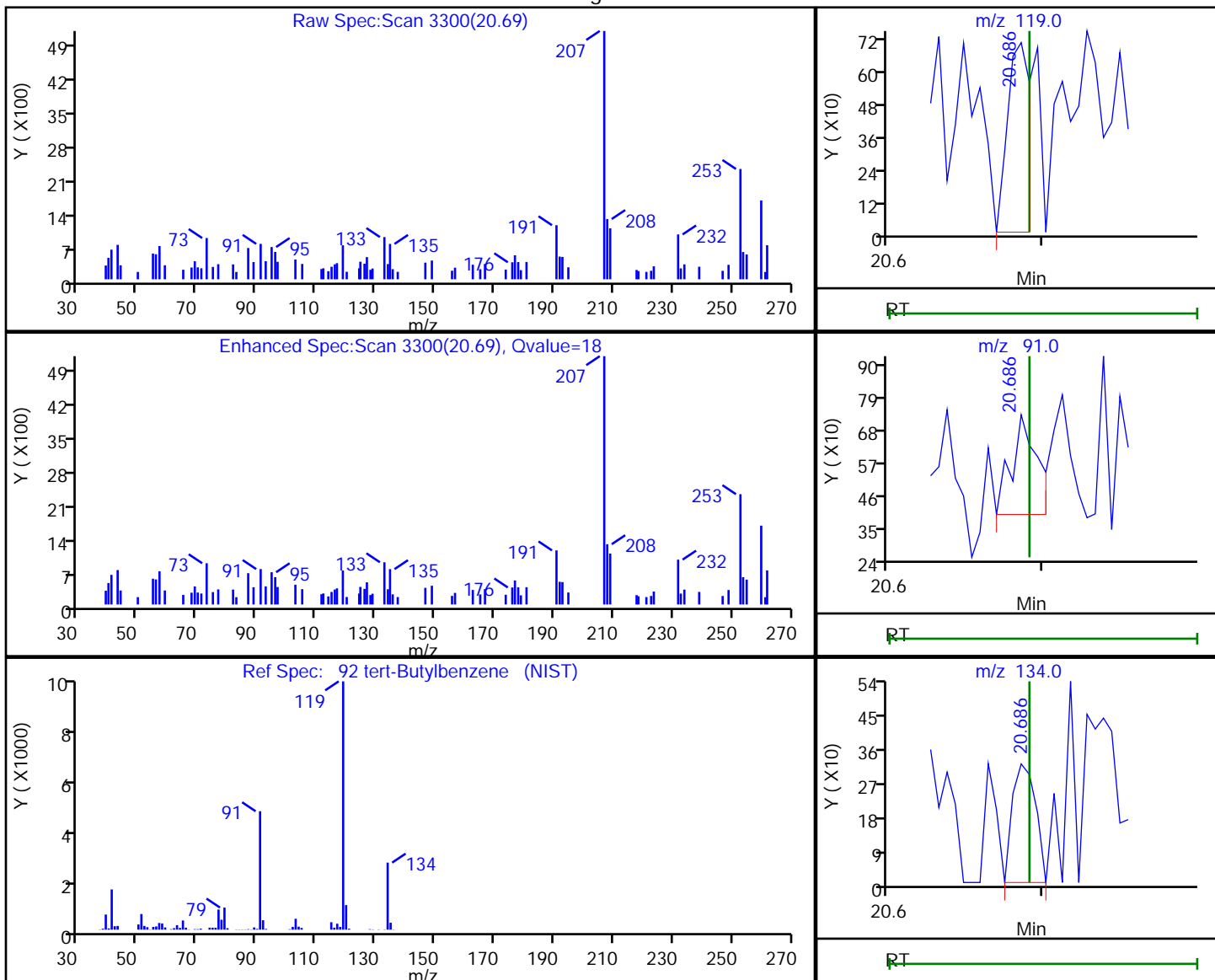
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.69 | 119.00 | 707      | 0.003533 |
| 20.69 | 91.00  | 391      |          |
| 20.69 | 134.00 | 326      |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:02  
 Audit Action: Marked Compound Undetected

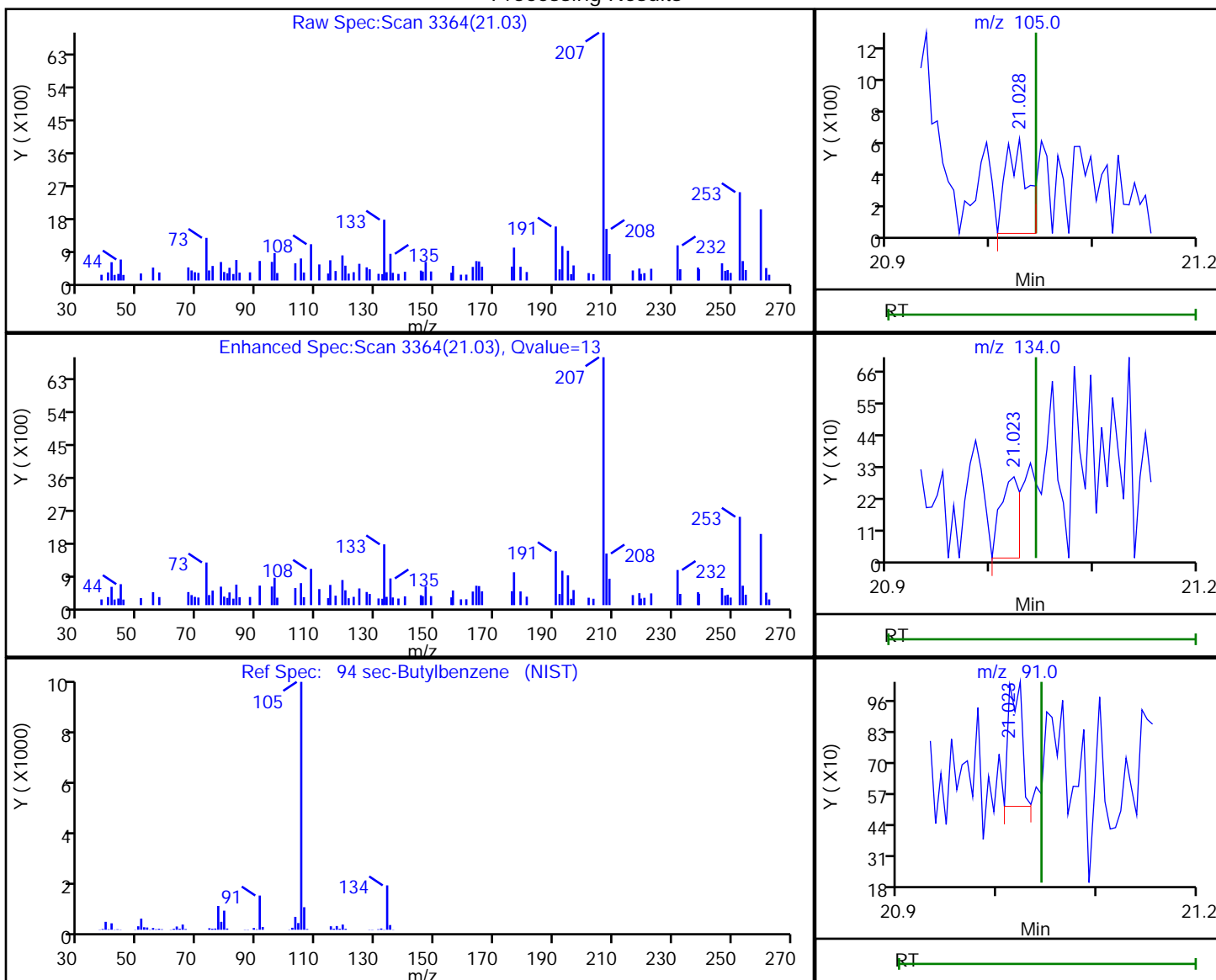
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.03 | 105.00 | 899      | 0.003029 |
| 21.02 | 134.00 | 368      |          |
| 21.02 | 91.00  | 479      |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:07

Audit Action: Marked Compound Undetected

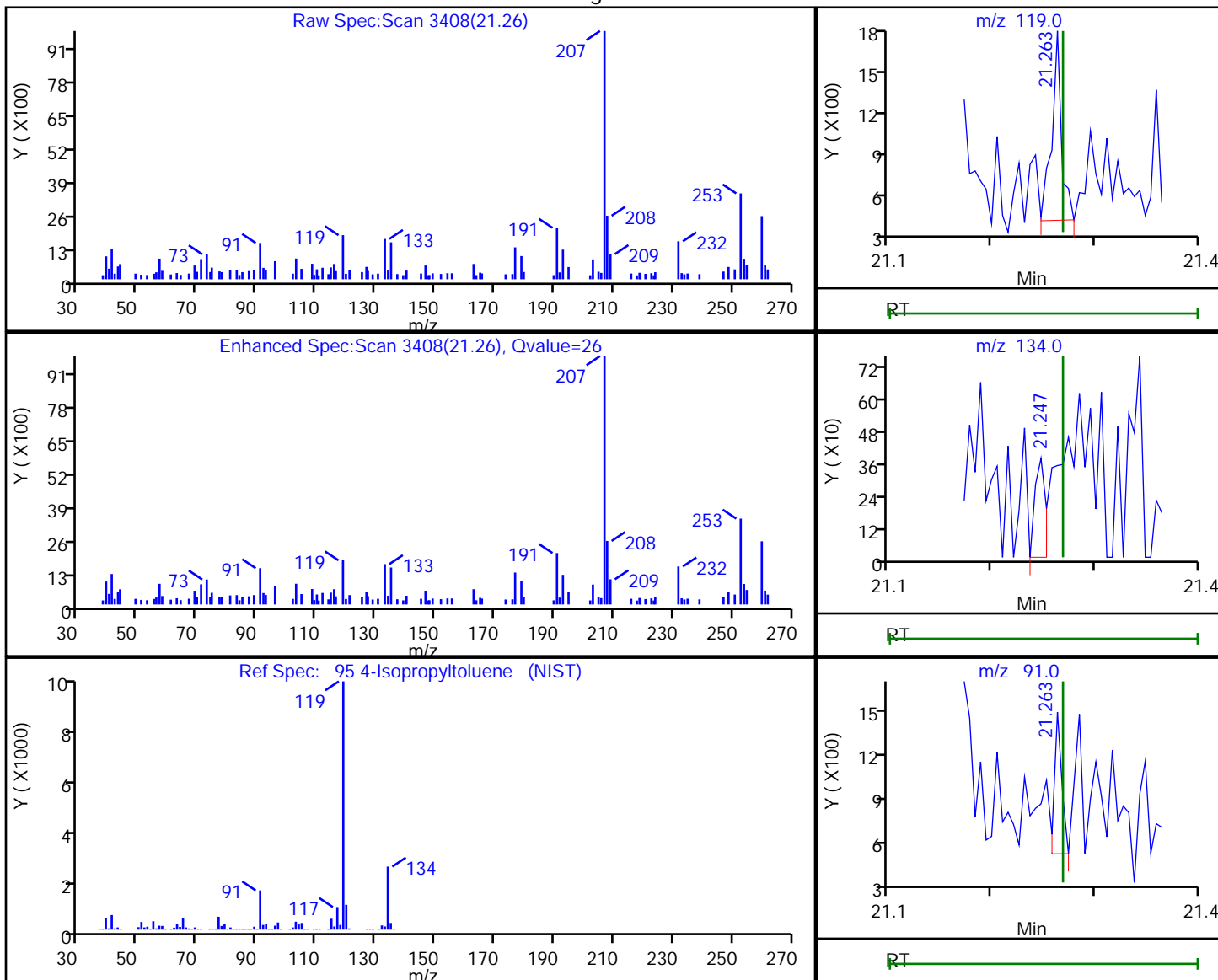
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 119.00 | 864      | 0.003397 |
| 21.25 | 134.00 | 265      |          |
| 21.26 | 91.00  | 457      |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:08

Audit Action: Marked Compound Undetected

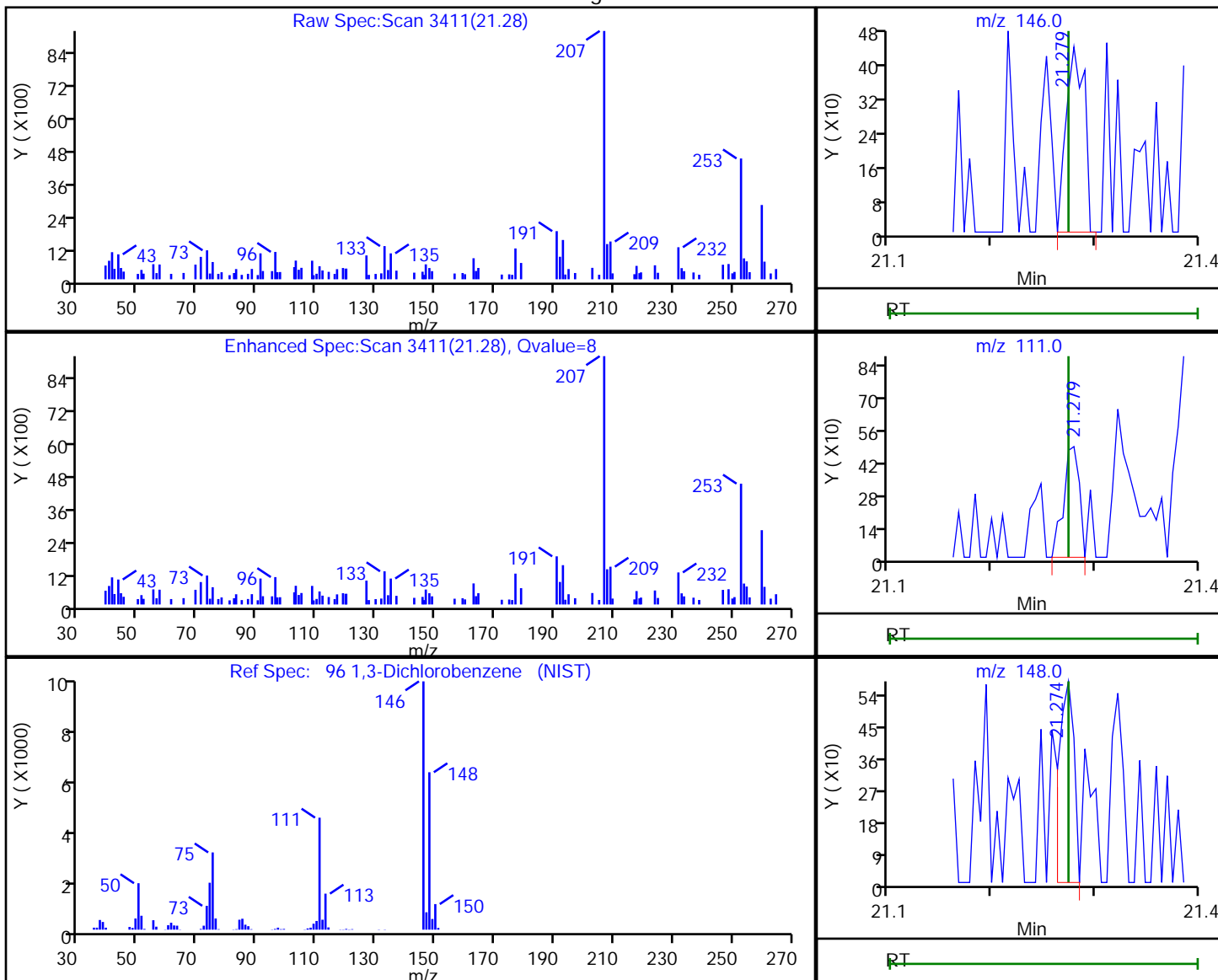
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.28 | 146.00 | 541      | 0.003162 |
| 21.28 | 111.00 | 511      |          |
| 21.27 | 148.00 | 578      |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:10  
Audit Action: Marked Compound Undetected

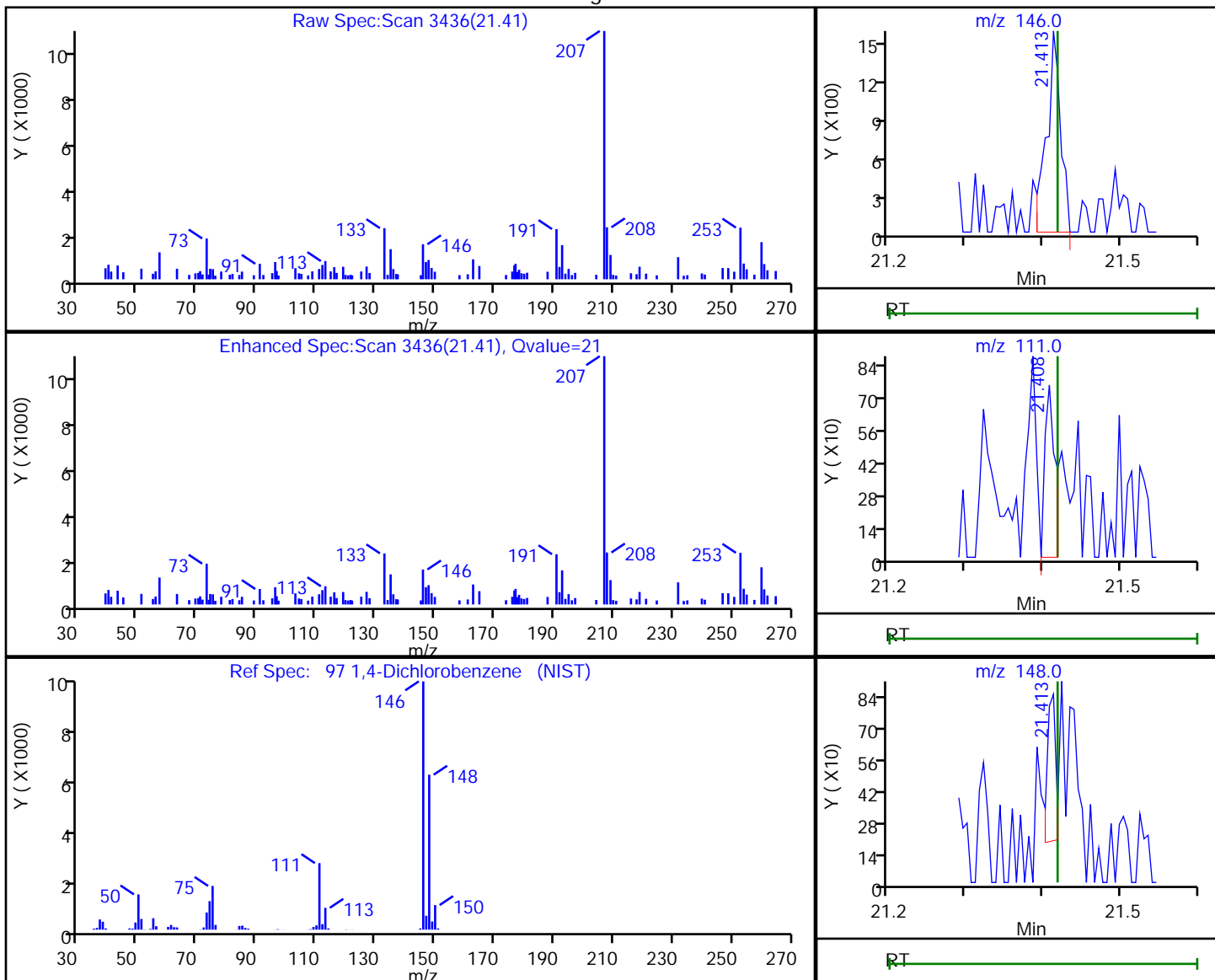
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.41 | 146.00 | 1944     | 0.011883 |
| 21.41 | 111.00 | 680      |          |
| 21.41 | 148.00 | 505      |          |

Reviewer: bunmaa, 07-Dec-2018 08:59:55  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

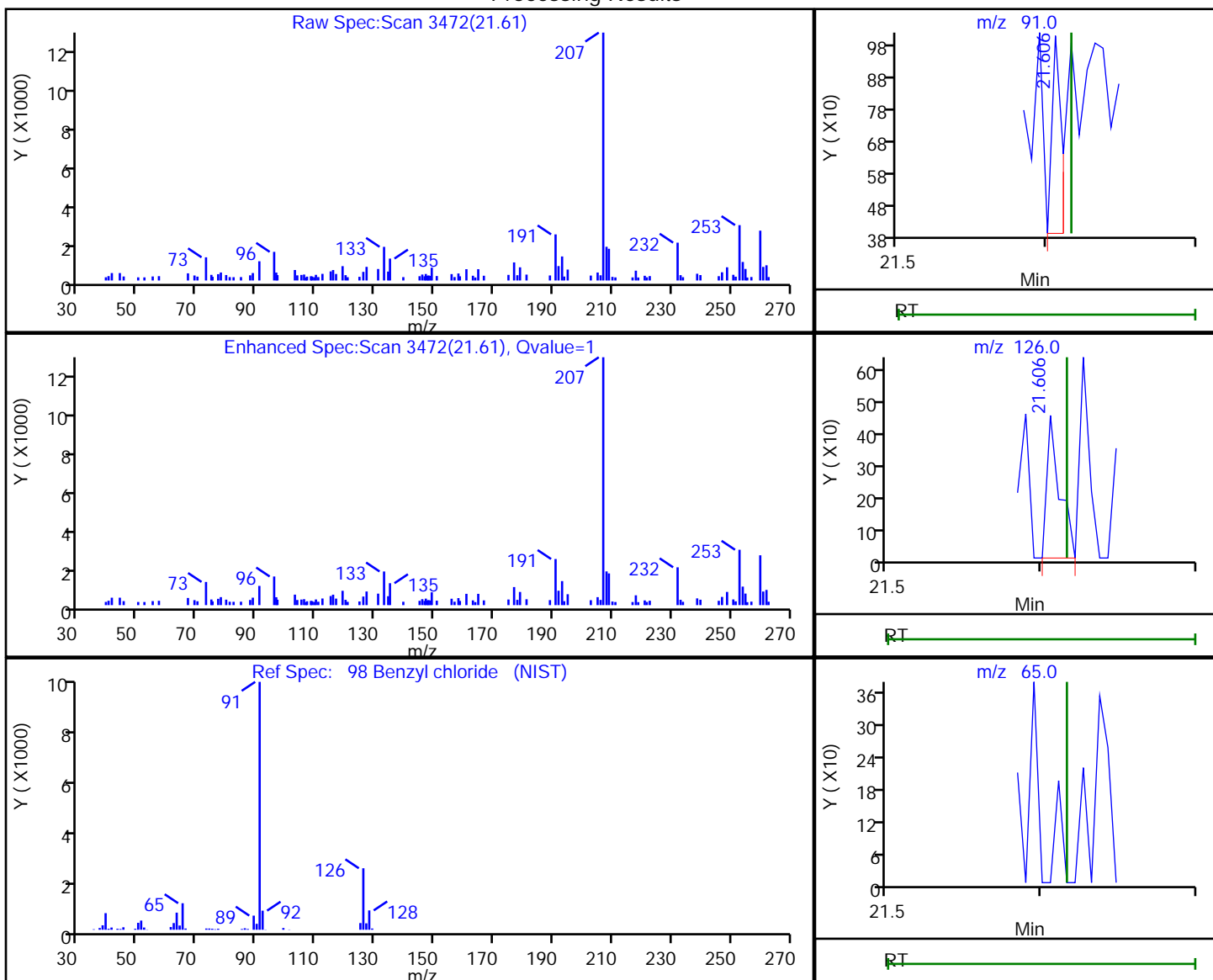


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.61 | 91.00  | 280      | 0.001387 |
| 21.61 | 126.00 | 261      |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:13  
 Audit Action: Marked Compound Undetected

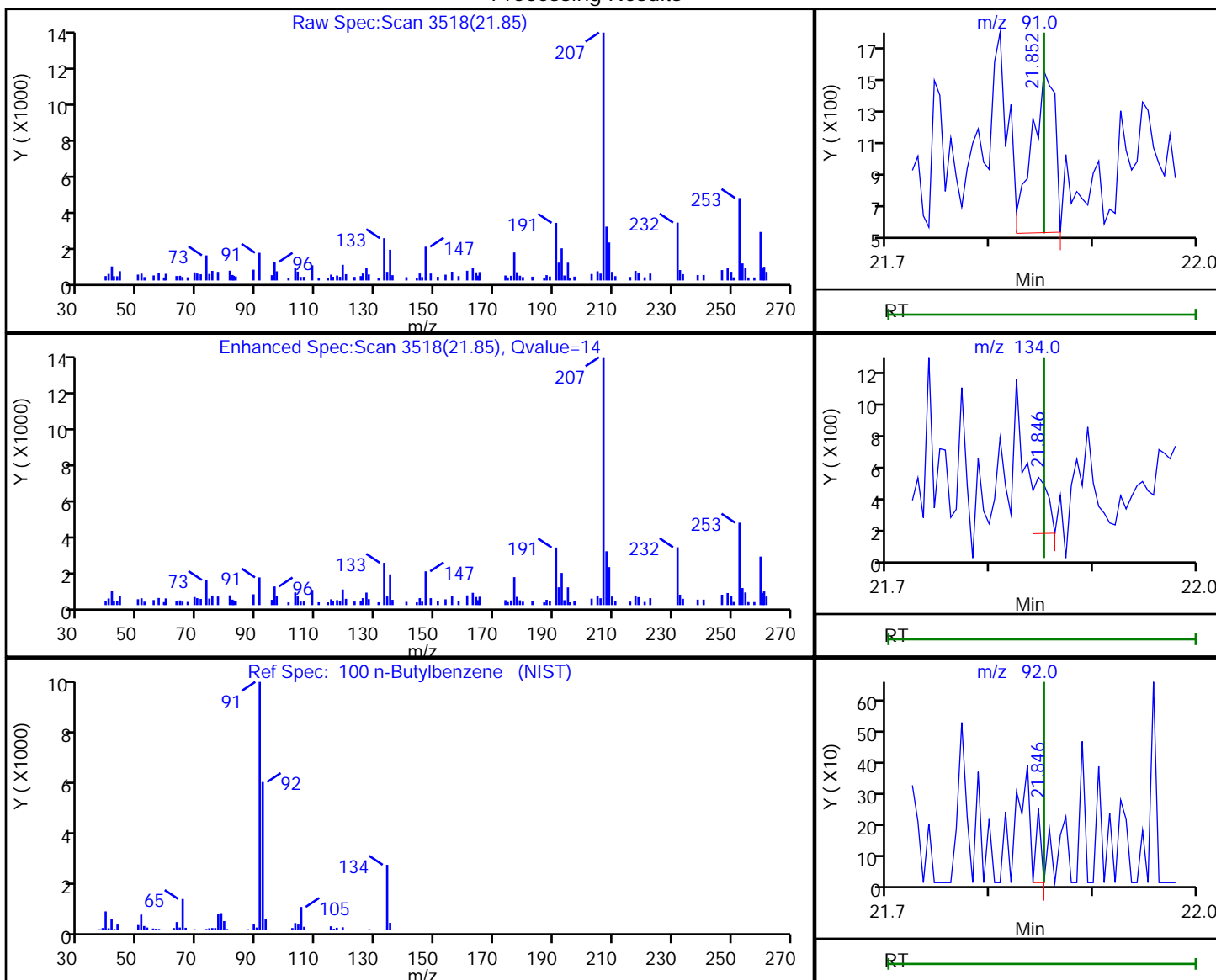
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 1484     | 0.006400 |
| 21.85 | 134.00 | 377      |          |
| 21.85 | 92.00  | 78       |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:15  
 Audit Action: Marked Compound Undetected

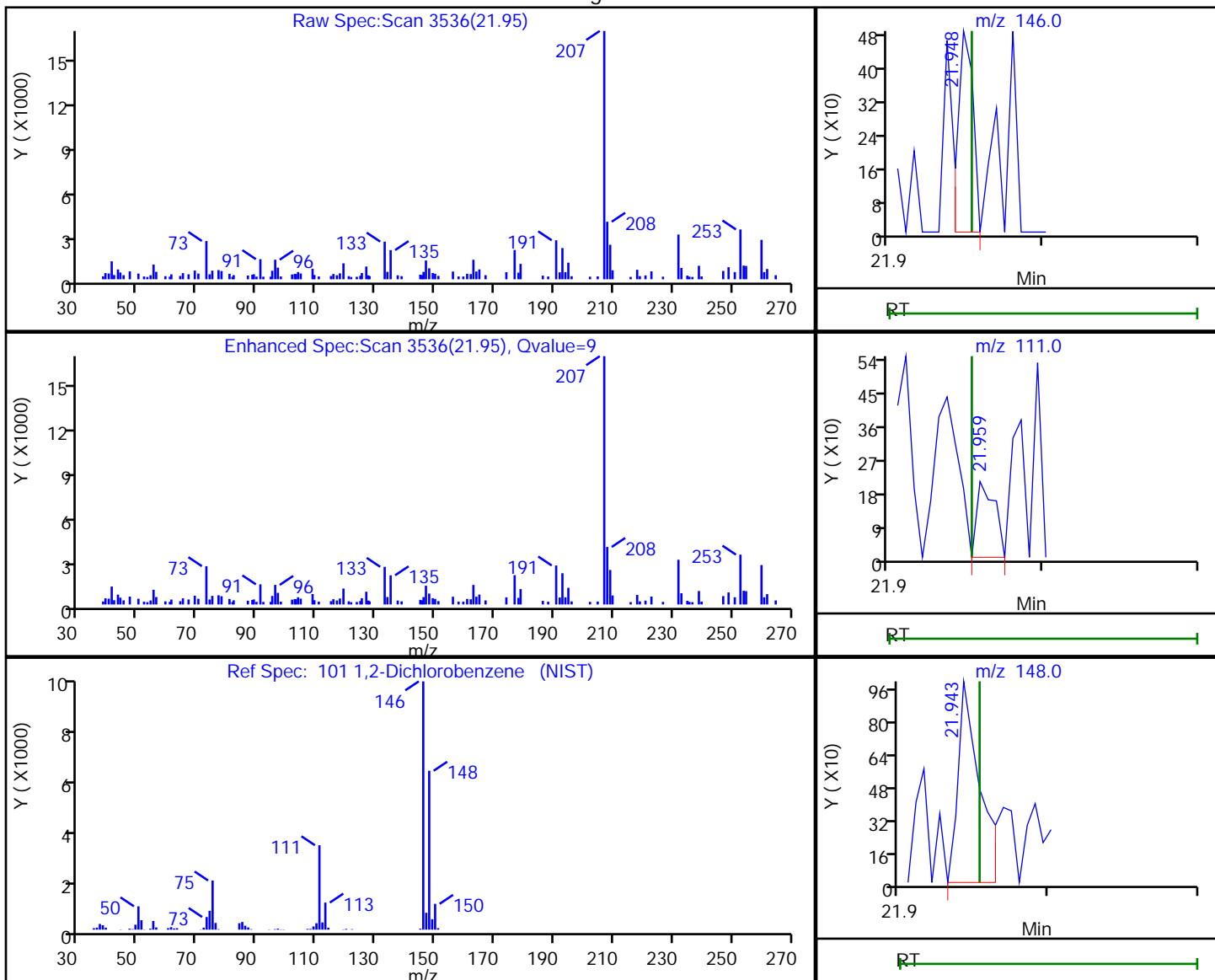
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
 Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
 Client ID: IA-2\_20181120  
 Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 331      | 0.002105 |
| 21.96 | 111.00 | 164      |          |
| 21.94 | 148.00 | 1006     |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:15  
 Audit Action: Marked Compound Undetected

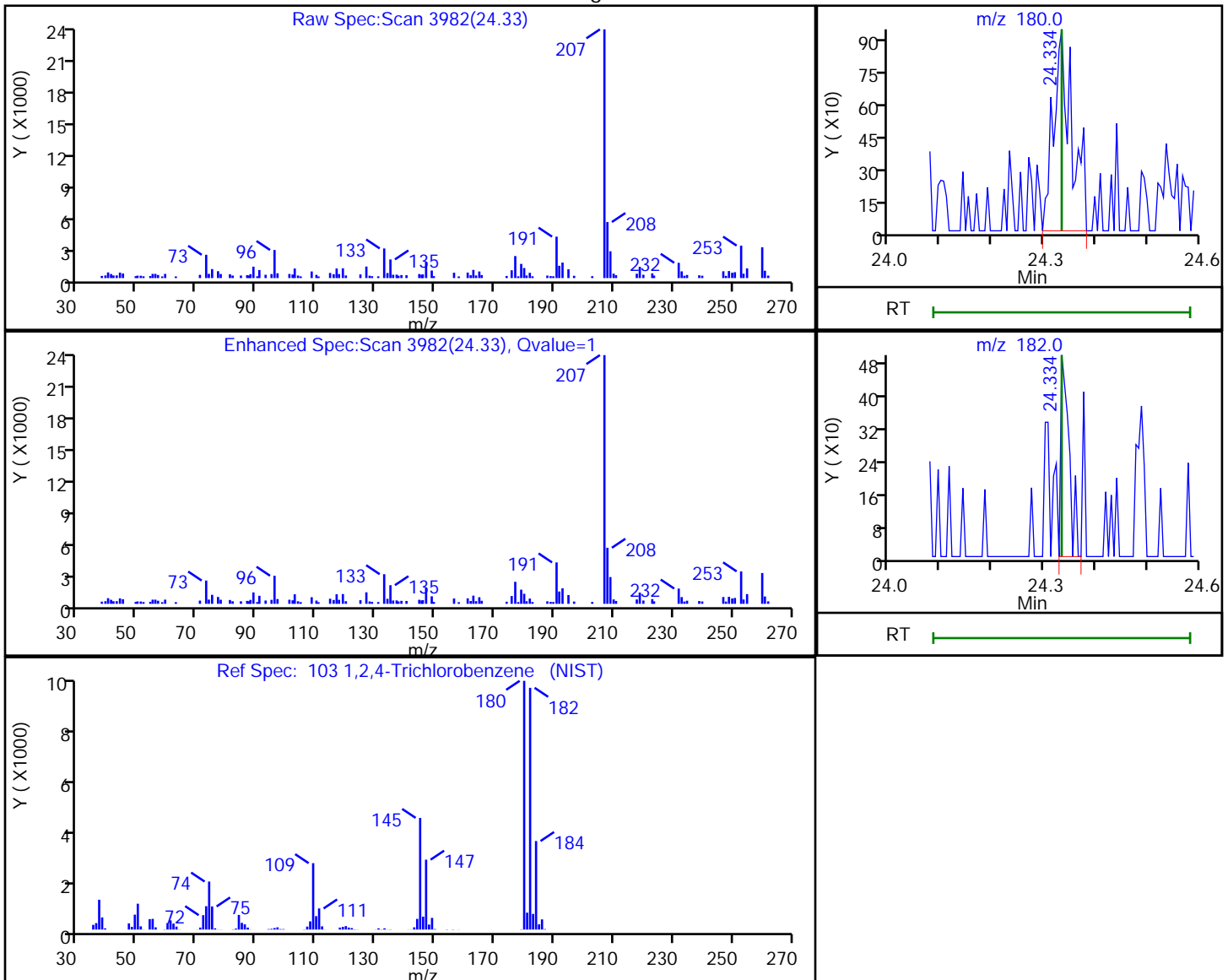
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 2320     | 0.019632 |
| 24.33 | 182.00 | 551      |          |

Reviewer: bunmaa, 07-Dec-2018 09:00:04

Audit Action: Marked Compound Undetected

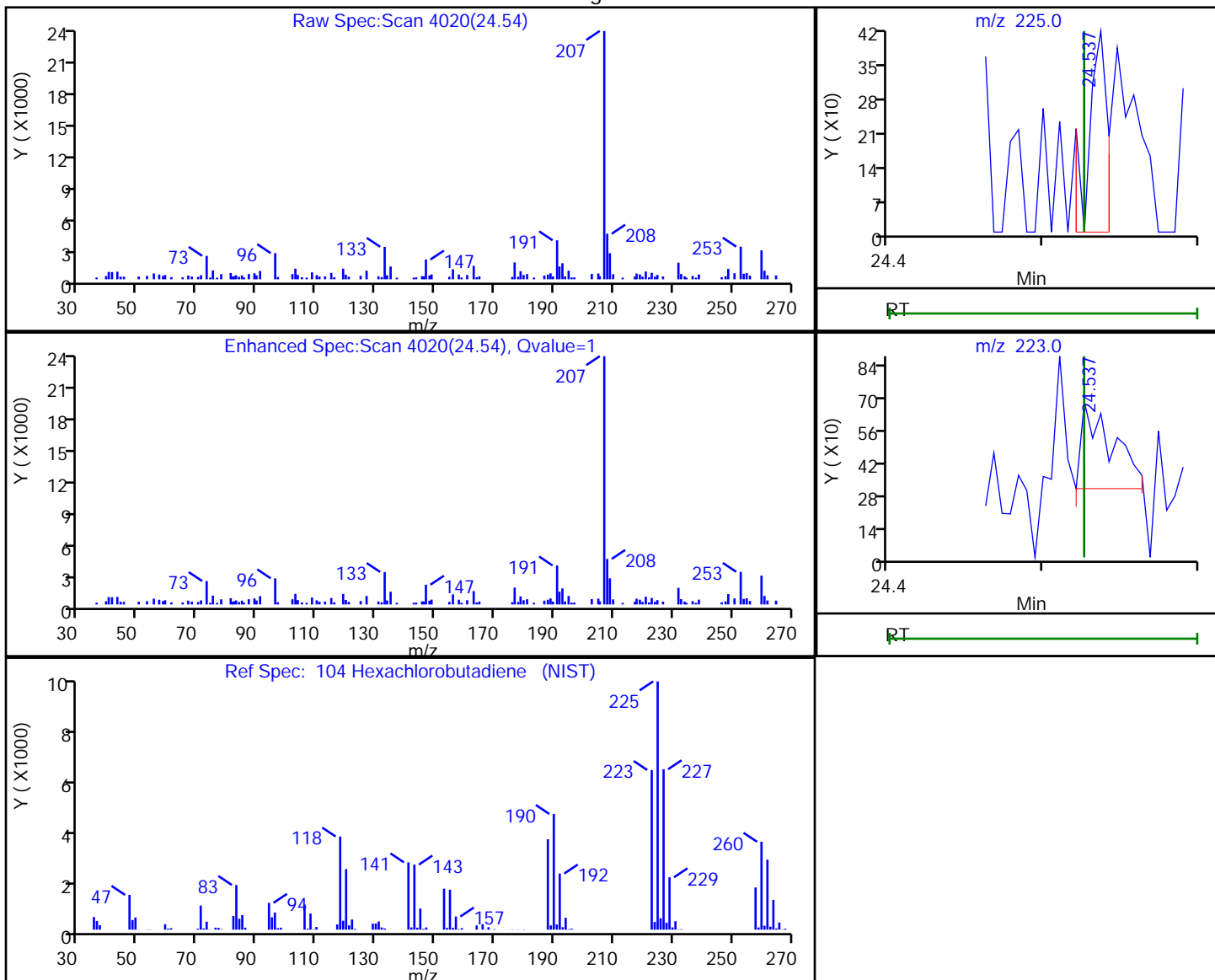
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.54 | 225.00 | 366      | 0.003113 |
| 24.54 | 223.00 | 519      |          |

Reviewer: guazzonig, 06-Dec-2018 12:01:20

Audit Action: Marked Compound Undetected

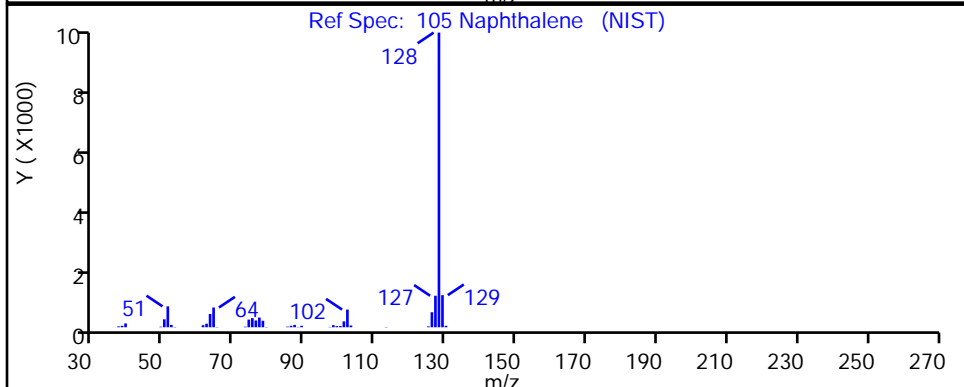
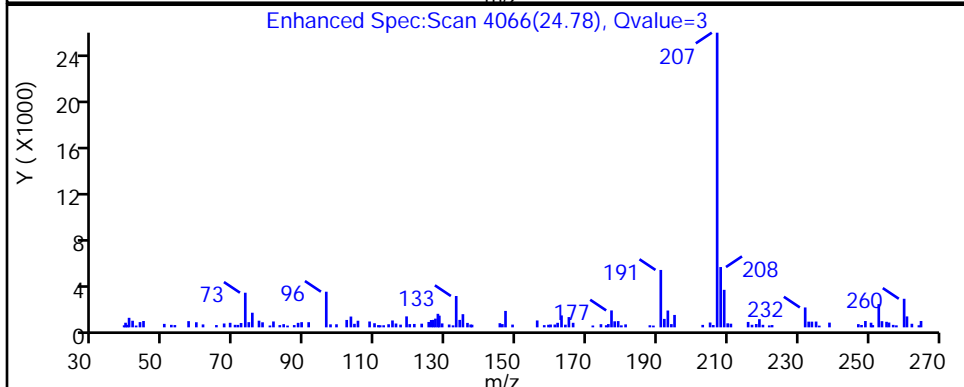
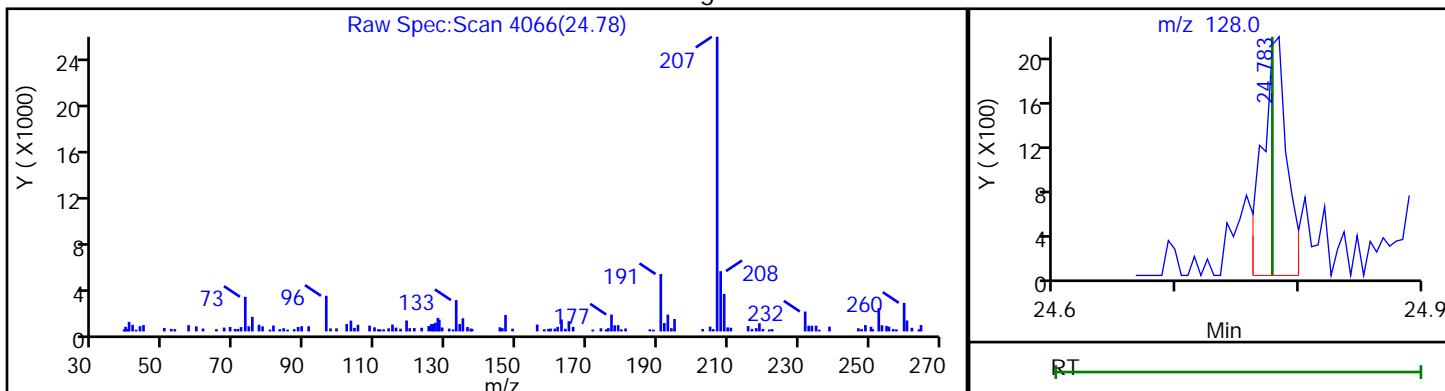
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-019.D  
Injection Date: 06-Dec-2018 05:11:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-3 Lab Sample ID: 200-46353-3  
Client ID: IA-2\_20181120  
Operator ID: ert ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.78 | 128.00 | 3049     | 0.013308 |

Reviewer: bunmaa, 07-Dec-2018 09:00:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.66   |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.4    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 9.2    |   | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.47   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.8    |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.35   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.053  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.22   |   | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.32   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 0.90   |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   |   | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.68   |   | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 0.27   |   | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    |   | 2.5  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.4    |   | 1.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 5.7    |   | 1.2  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2    |   | 1.1  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 22     |   | 12   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 1.7    |   | 0.70 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 5.2    |   | 1.5  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.2    |   | 0.69 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.34   |   | 0.22 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.0    |   | 0.93 |  |
| 71-43-2   | Benzene                          | 78.11            | 1.0    |   | 0.64 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.4    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.86   |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 3.0    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 1.2    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Lims ID: 200-46353-A-4  
 Client ID: IA-3\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 06:01:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-020  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:06:52 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: guazzonig

Date: 06-Dec-2018 11:54:55

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011         | 99  | 117057   | 0.5063            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.179         | -0.005         | 96  | 38817    | 0.3944            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |                |     |          | ND                | MU    |
| 5 Chloromethane               | 50  | 3.454     | 3.463         | -0.011         | 97  | 29828    | 0.6631            |       |
| 6 Butane                      | 43  | 3.604     | 3.598         | 0.000          | 99  | 144740   | 2.39              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |     |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  | 4.380     | 4.377         | 0.000          | 19  | 2095     | 0.1005            |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.754     | 4.754         | -0.006         | 97  | 40642    | 0.2225            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599     | 5.599         | -0.006         | 63  | 8198     | 0.0637            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.851     | 5.853         | -0.005         | 99  | 442293   | 9.17              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.011         | -0.006         | 64  | 2702     | 0.0185            |       |
| 24 Isopropyl alcohol          | 45  | 6.107     | 6.093         | 0.010          | 100 | 94156    | 1.77              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |     |          | ND                | Ua    |
| 27 Methylene Chloride         | 49  | 6.551     | 6.552         | -0.006         | 87  | 15801    | 0.3091            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.803     | 6.767         | 0.032          | 81  | 9653     | 0.1184            |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |                |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |                |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.284     | 7.275         | 0.005          | 90  | 25710    | 0.4699            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.798     | 8.788         | 0.005          | 100 | 30791    | 1.78              |       |
| * 40 Chlorobromomethane       | 128 | 9.146     | 9.152         | -0.006         | 74  | 619684   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  | 9.242     | 9.210         | 0.032          | 71  | 3404     | 0.1010            |       |
| 42 Chloroform                 | 83  | 9.269     | 9.269         | 0.000          | 47  | 5299     | 0.0409            | M     |
| 43 Cyclohexane                | 84  | 9.521     | 9.515         | -0.010         | 96  | 23607    | 0.3482            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.761     | 9.778         | -0.022         | 73  | 9357     | 0.0534            |       |
| 46 Isooctane                  | 57  | 10.189    | 10.190        | -0.006         | 95  | 48601    | 0.2167            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.216        | -0.005        | 95 | 49804    | 0.3166            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                | MU    |
| 49 n-Heptane                   | 43  | 10.553    | 10.553        | -0.022        | 87 | 16210    | 0.2003            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2953990  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  | 12.318    | 12.318        | 0.032         | 71 | 2821     | 0.0976            | M     |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                |       |
| 65 Toluene                     | 92  | 14.052    | 14.068        | -0.016        | 97 | 95699    | 0.9004            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.143        | -0.005        | 94 | 14699    | 0.1155            | M     |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957        | -0.006        | 85 | 2623869  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.176    | 17.187        | -0.006        | 97 | 47492    | 0.1984            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.427    | 17.438        | -0.006        | 0  | 66042    | 0.6807            |       |
| 79 o-Xylene                    | 106 | 18.278    | 18.294        | -0.016        | 98 | 25188    | 0.2732            | M     |
| 80 Styrene                     | 104 | 18.332    | 18.342        | -0.005        | 48 | 5128     | 0.0363            | M     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 | 19.043    | 19.043        | -0.006        | 21 | 4162     | 0.0154            | M     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.846        | 0.000         | 97 | 11313    | 0.0352            |       |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                |       |
| 88 4-Ethyltoluene              | 105 | 20.043    | 20.049        | -0.011        | 85 | 12204    | 0.0447            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.167        | 0.000         | 88 | 10221    | 0.0437            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                |       |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.804        | 0.000         | 97 | 31565    | 0.1368            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 | 21.408    | 21.408        | -0.010        | 57 | 7477     | 0.0418            | a     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                |       |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 | 24.773    | 24.786        | -0.005        | 31 | 6438     | 0.0257            |       |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Worklist Smp#: 20

Client ID: IA-3\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

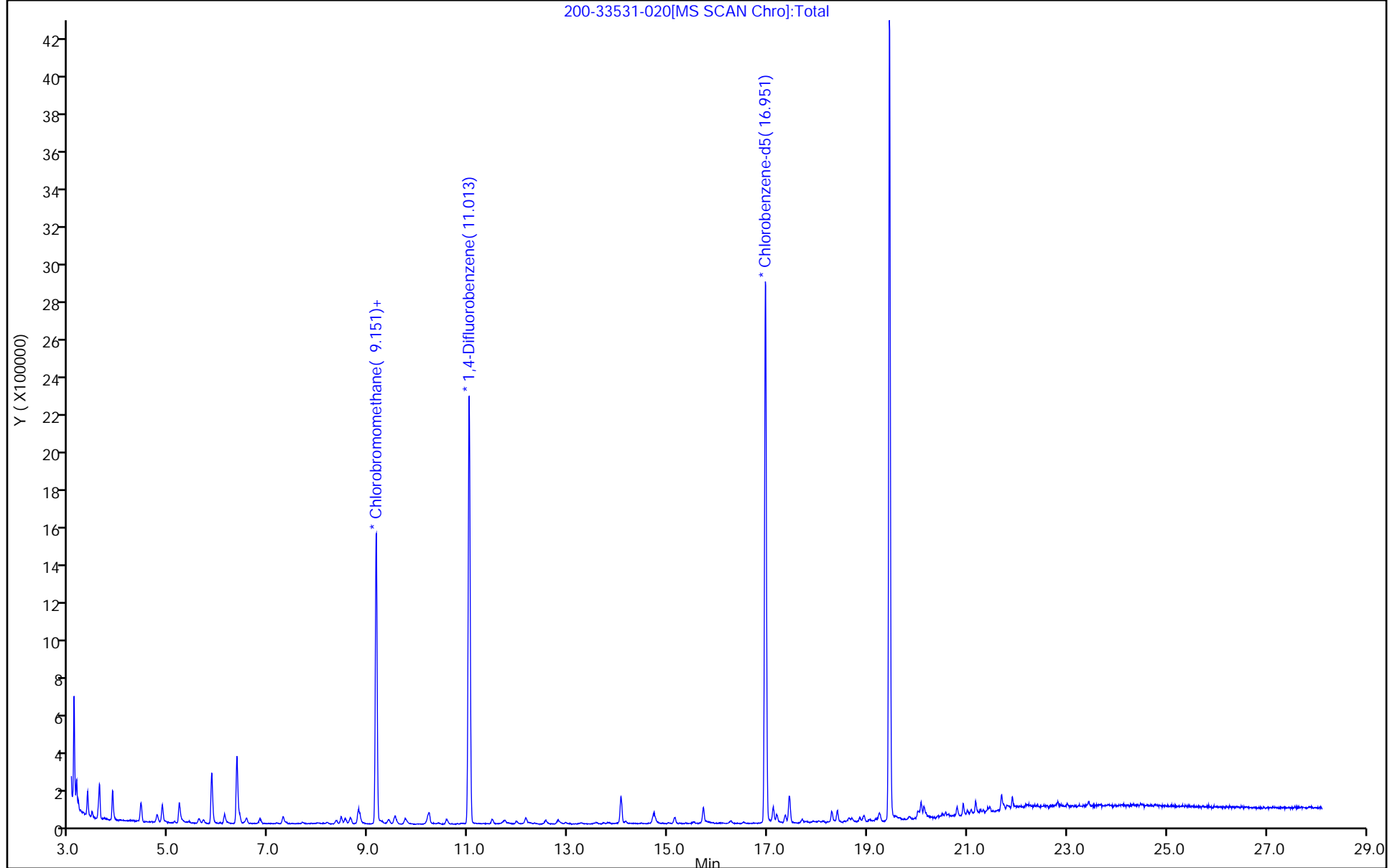
ALS Bottle#: 20

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

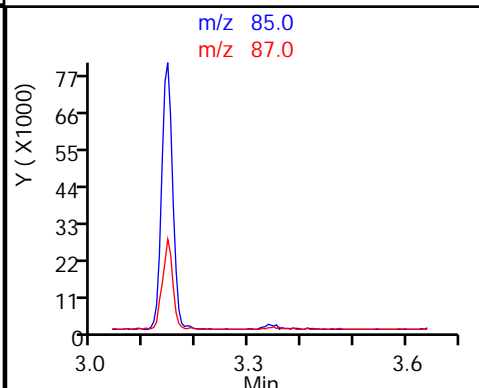
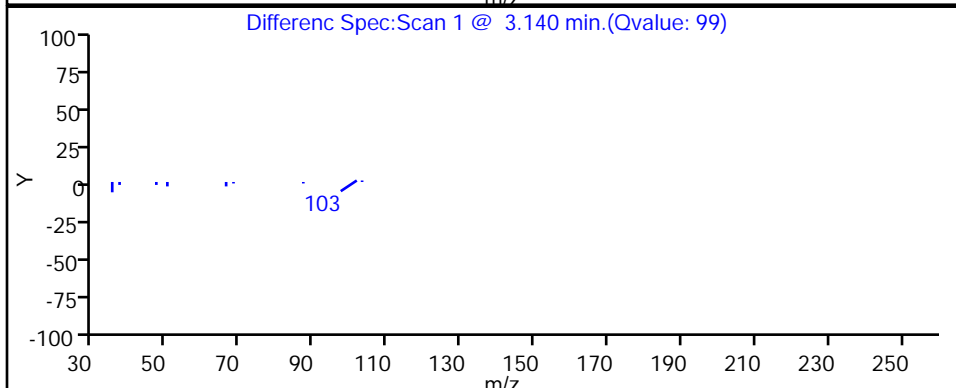
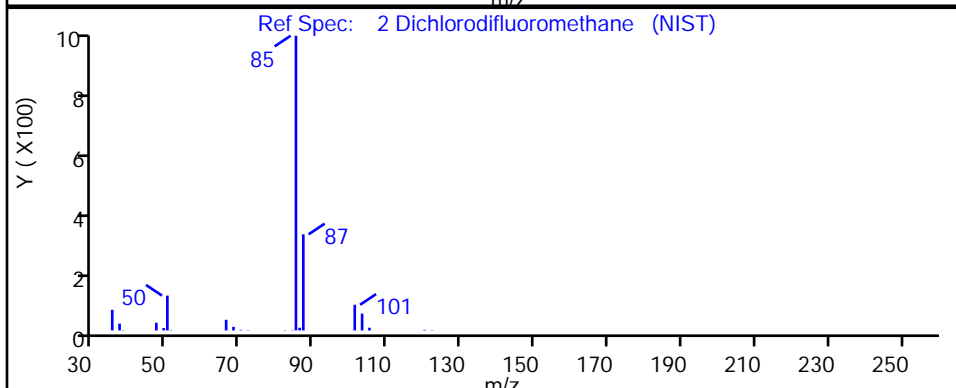
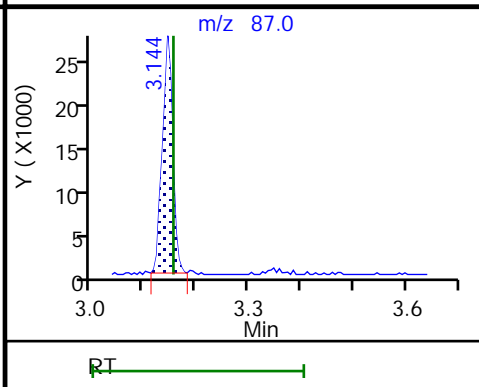
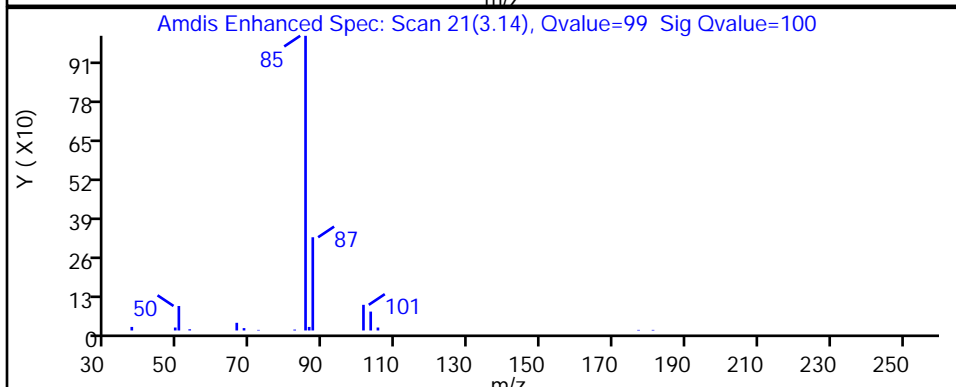
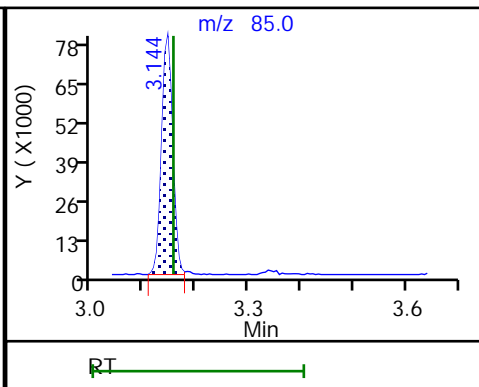
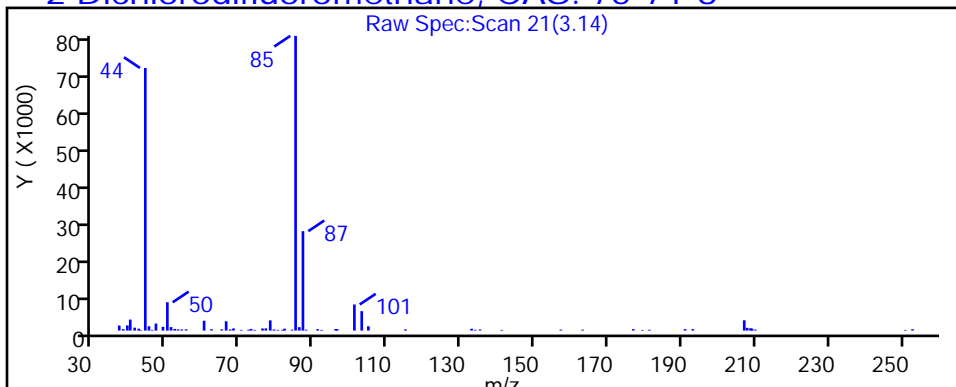
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

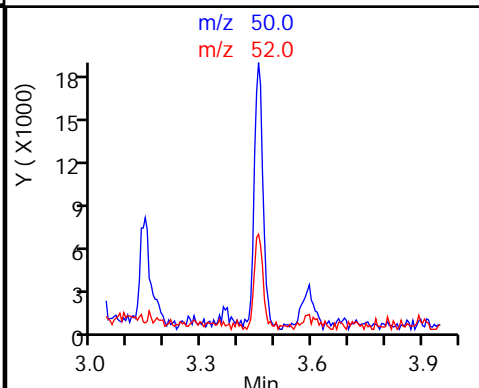
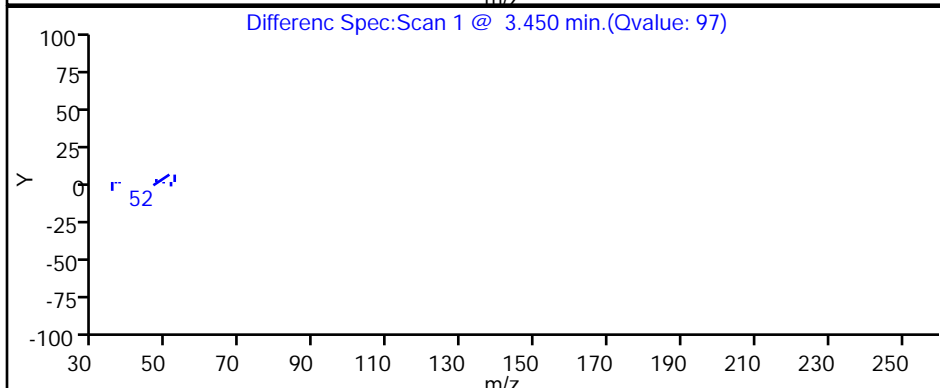
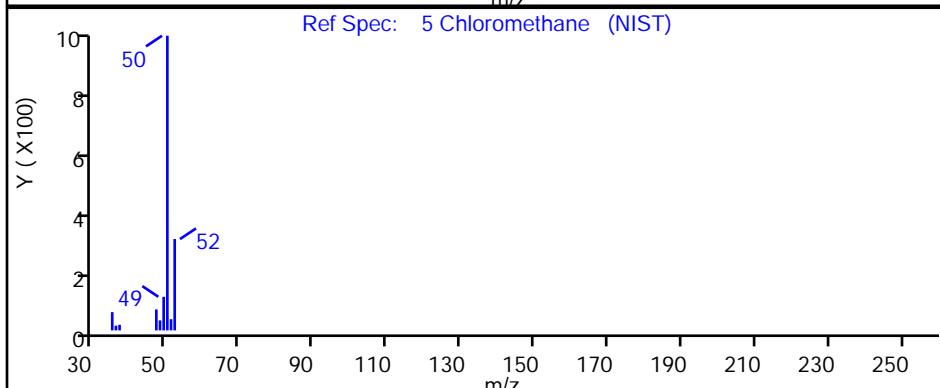
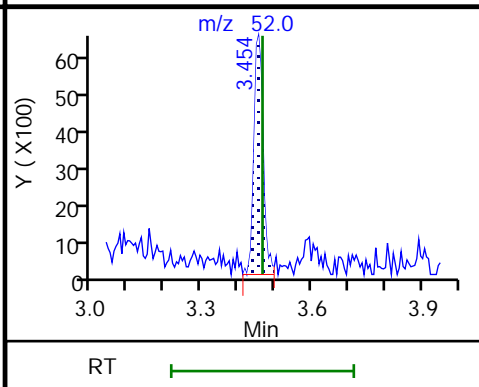
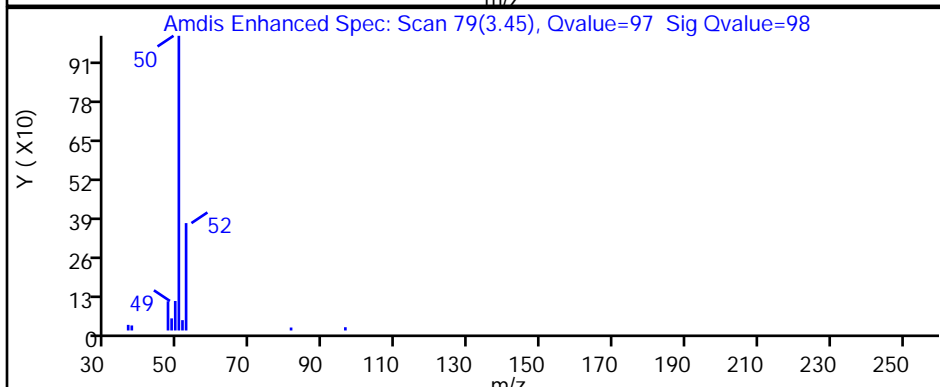
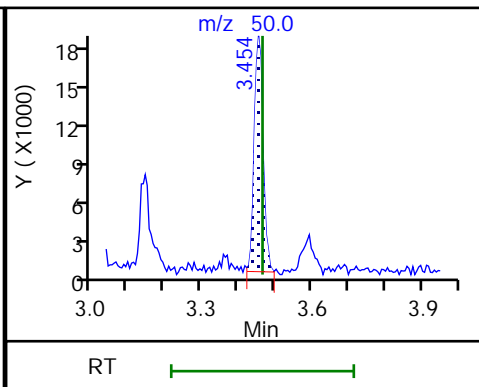
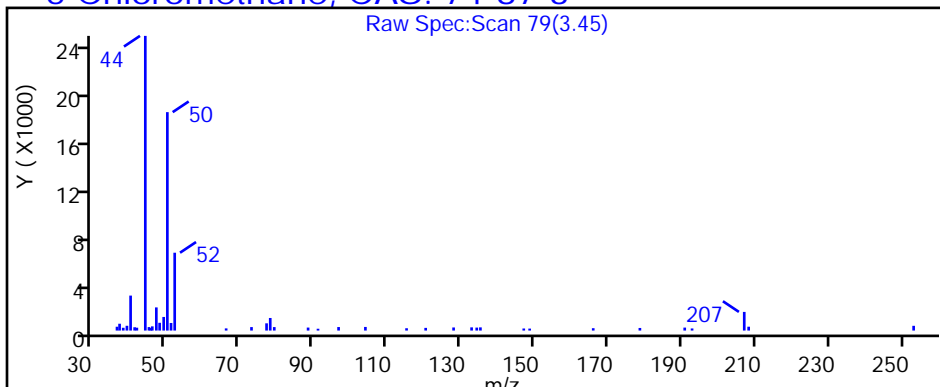
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

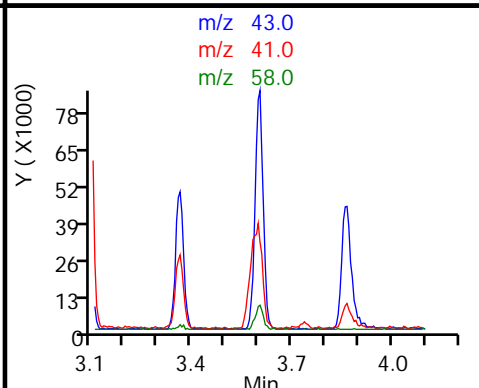
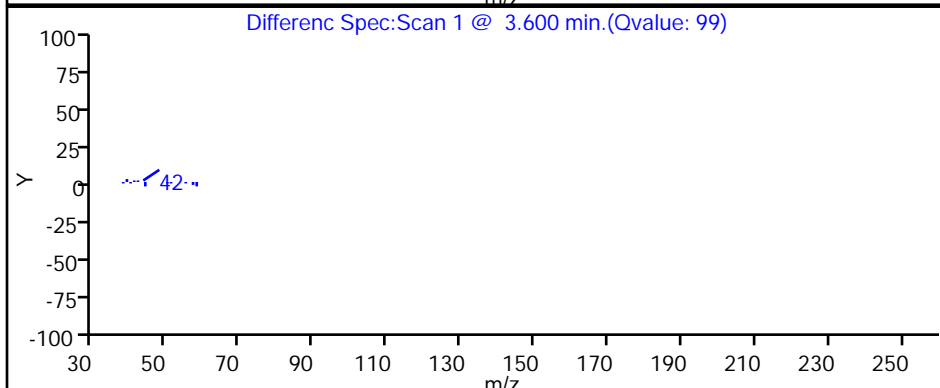
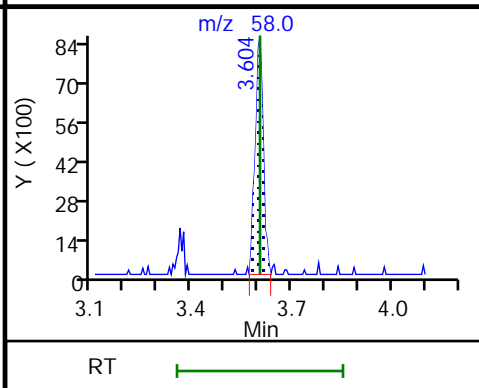
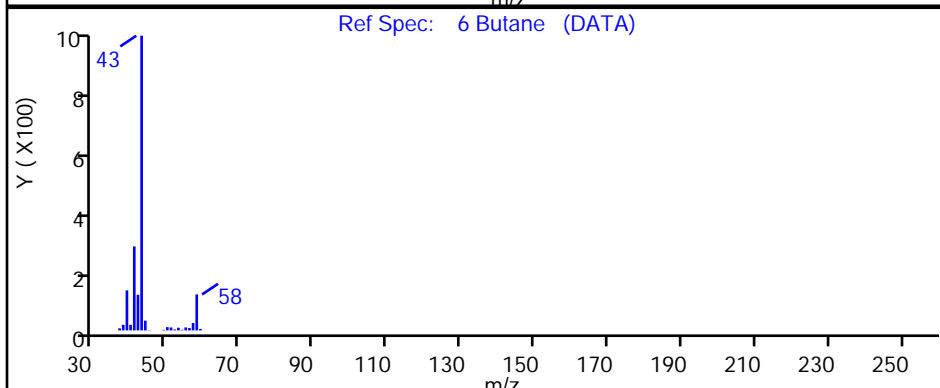
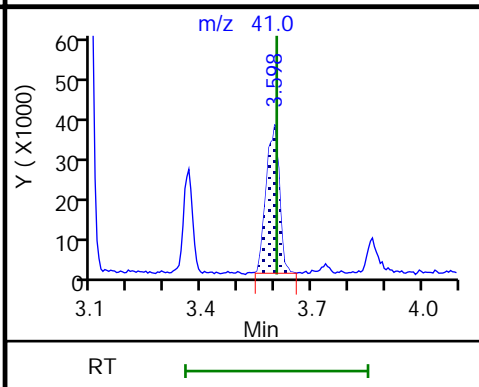
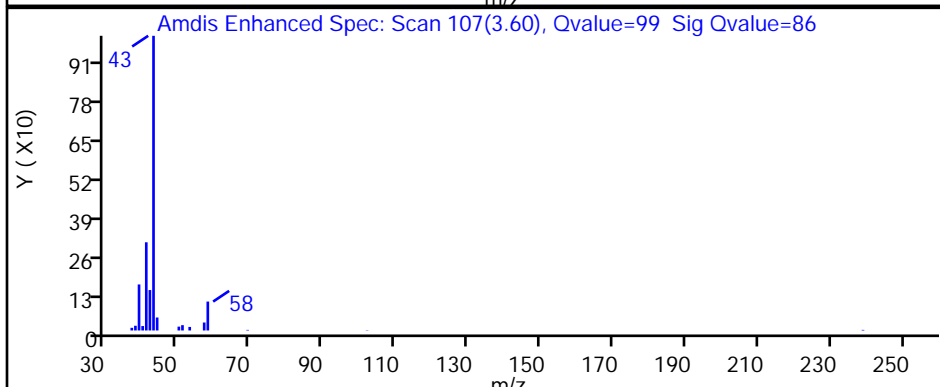
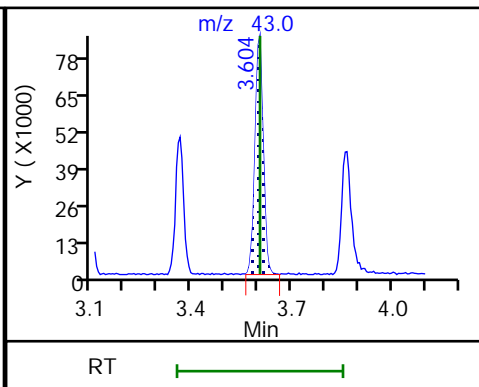
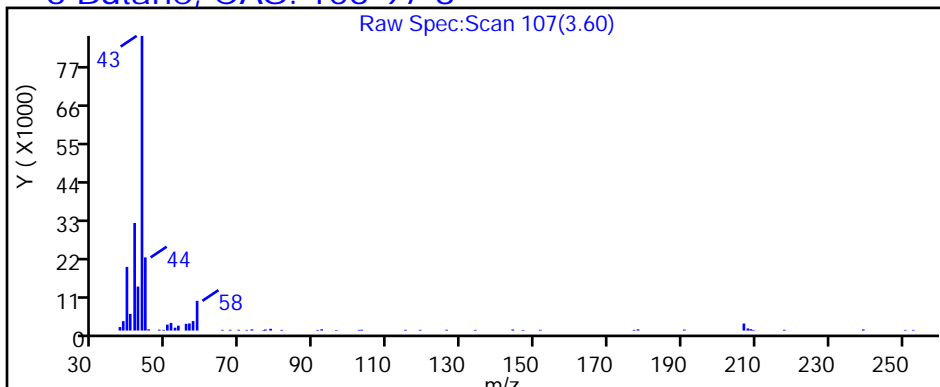
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

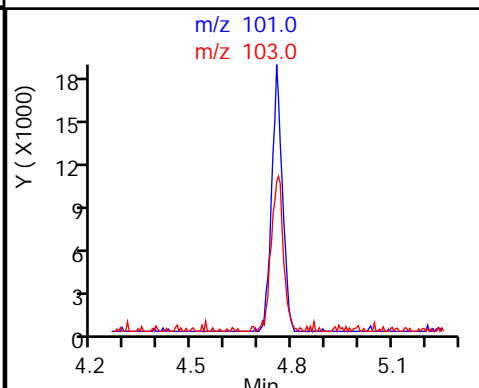
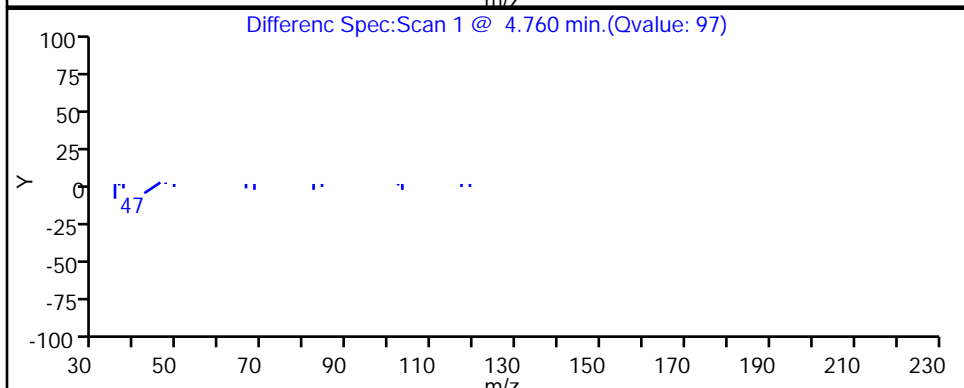
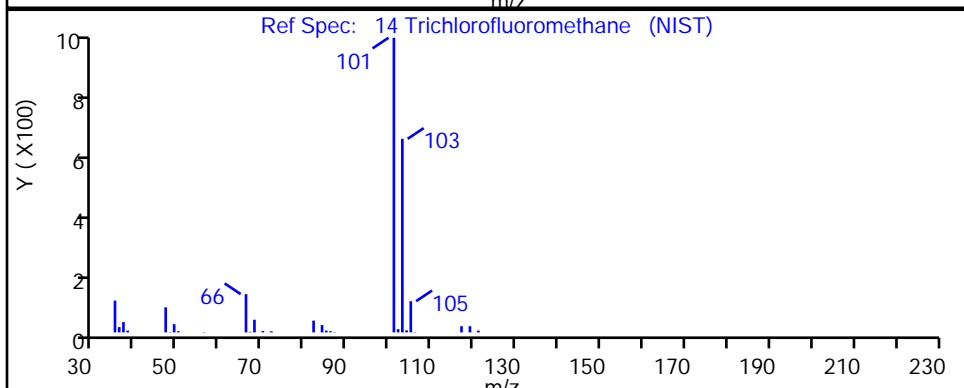
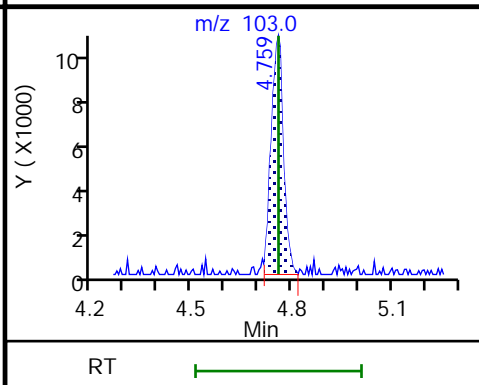
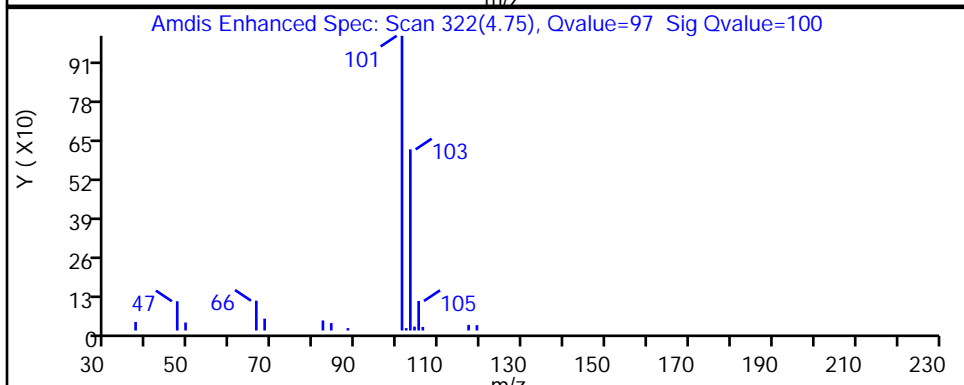
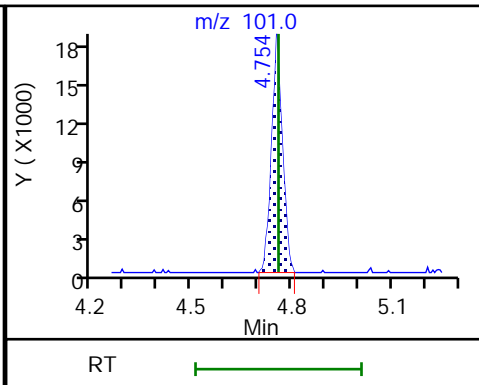
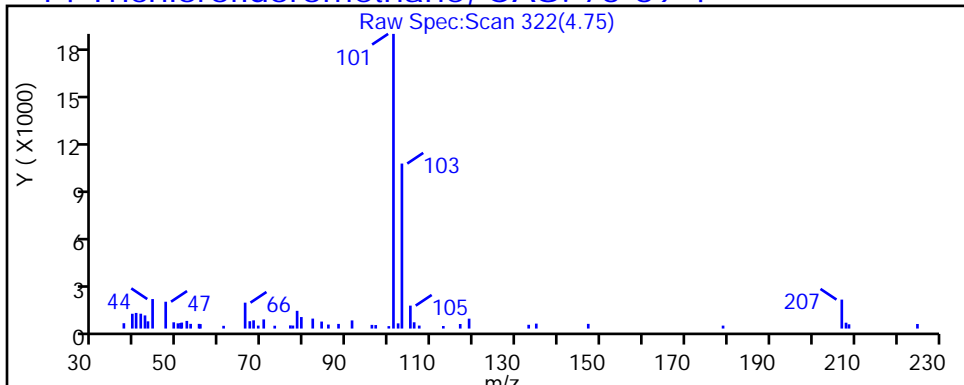
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

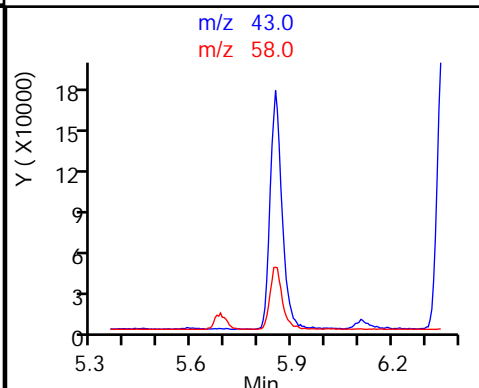
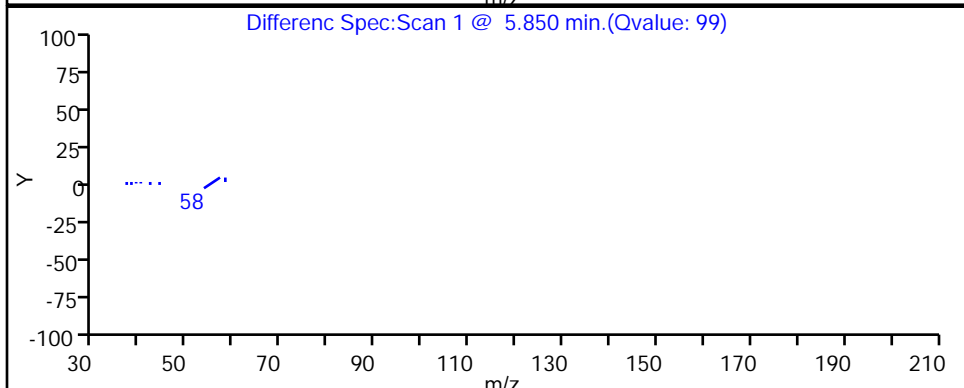
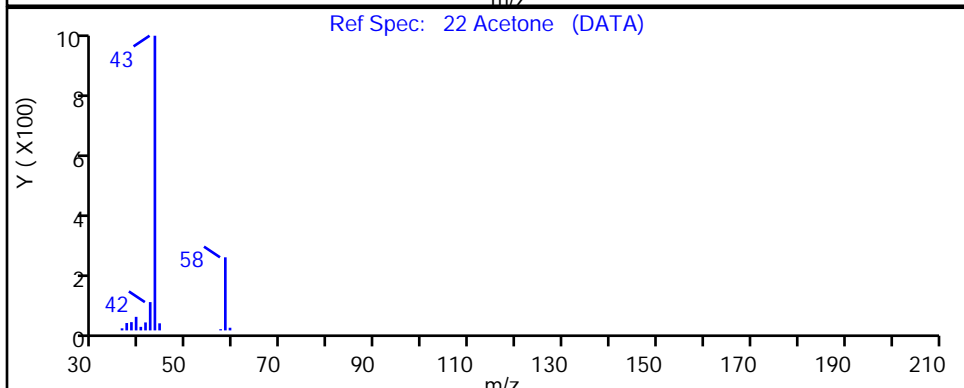
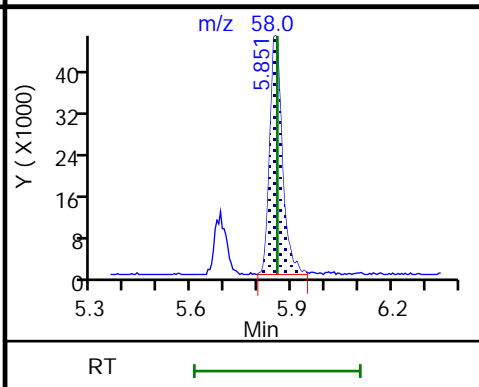
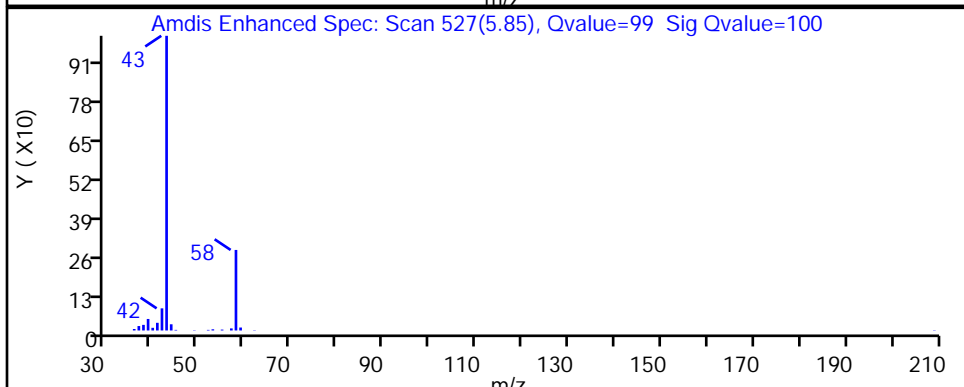
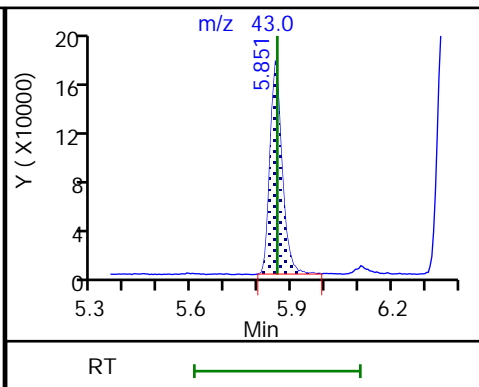
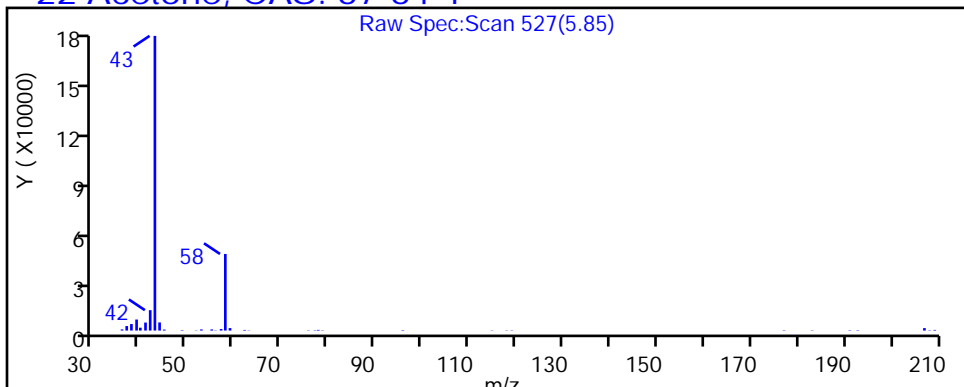
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

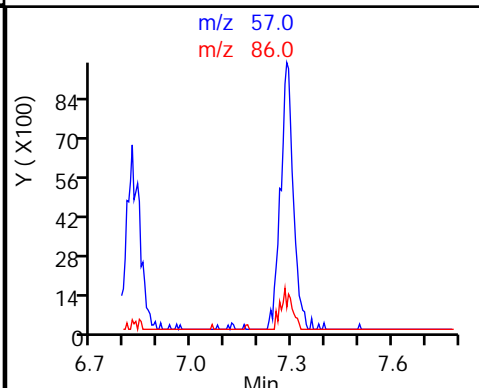
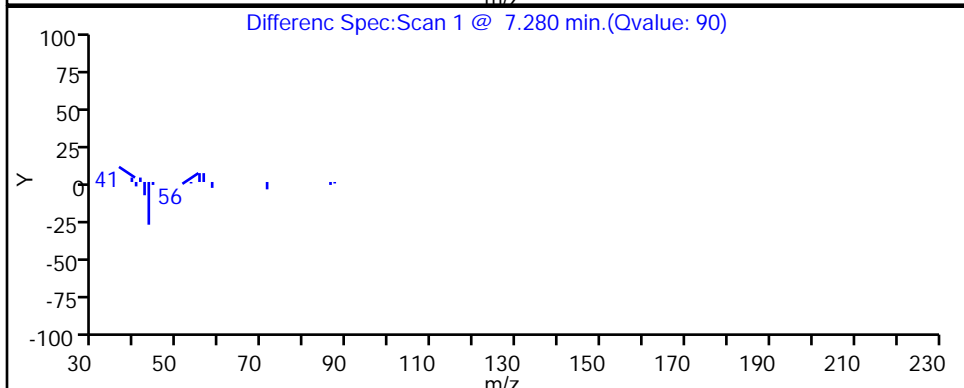
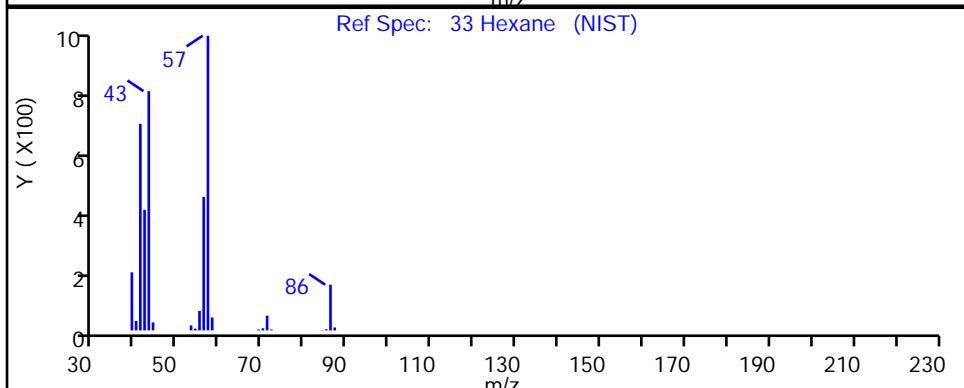
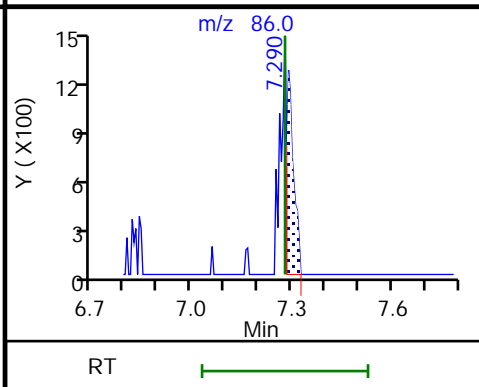
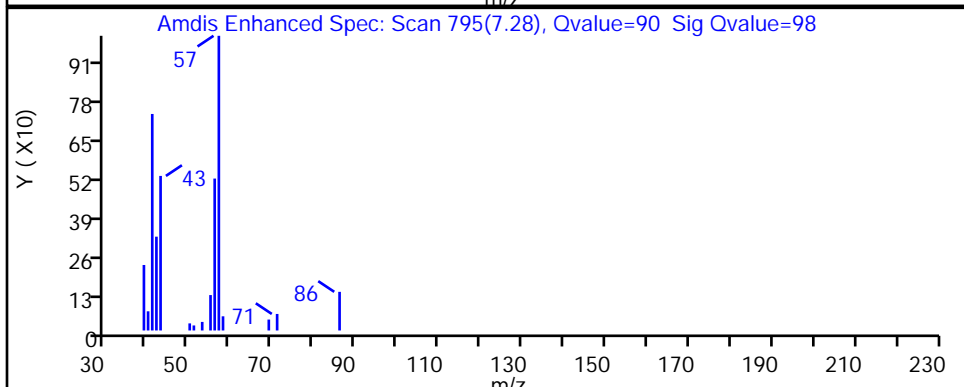
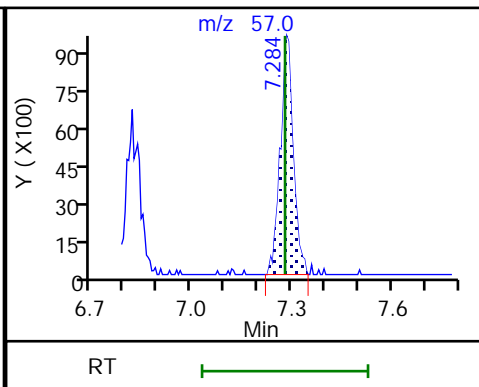
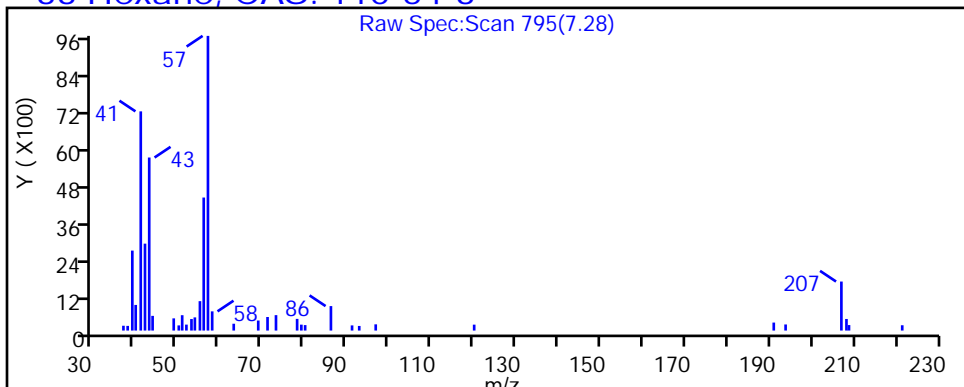
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

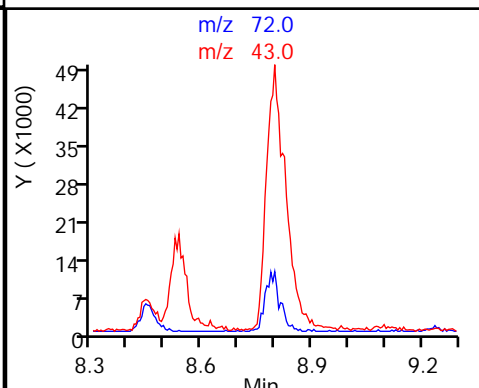
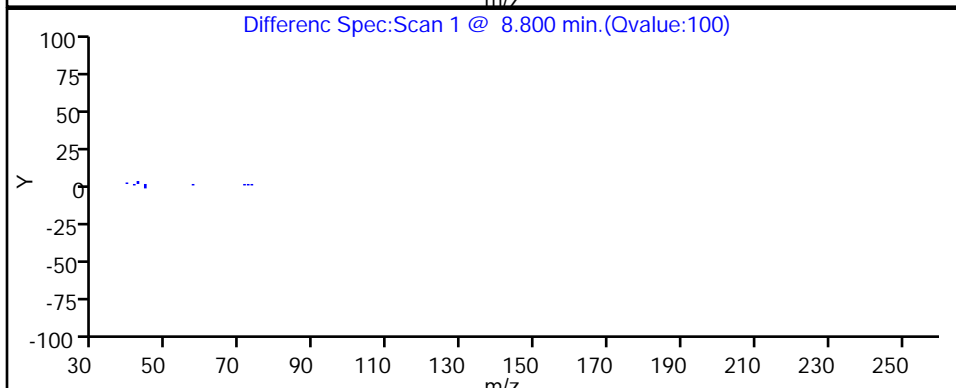
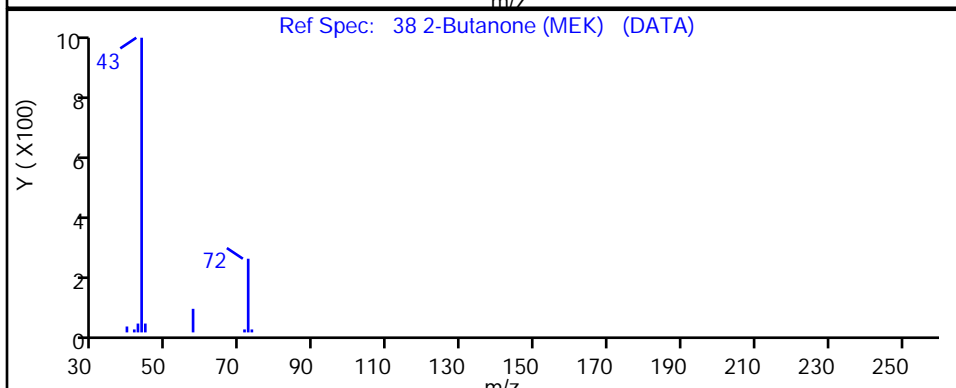
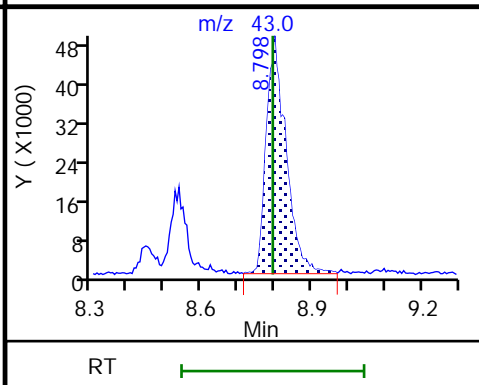
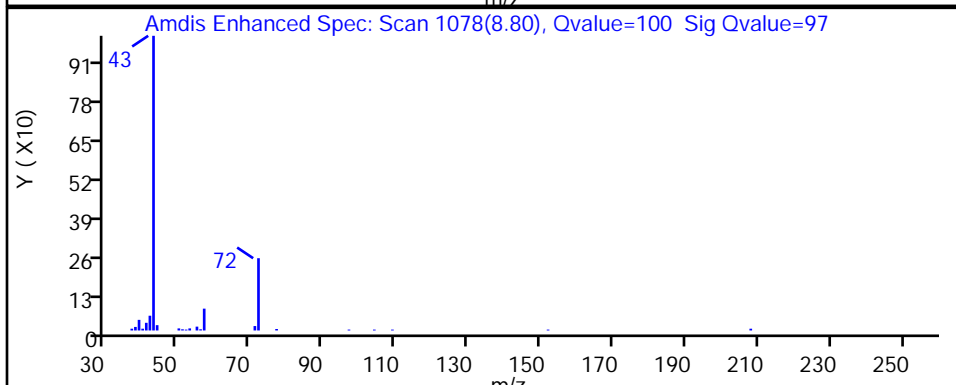
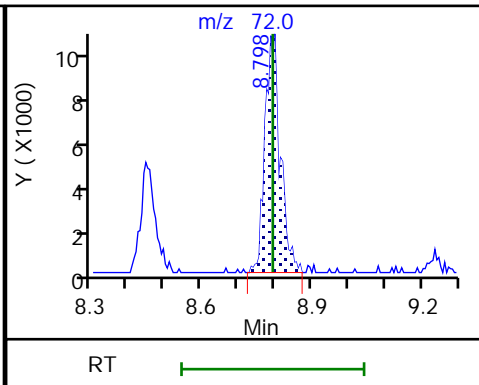
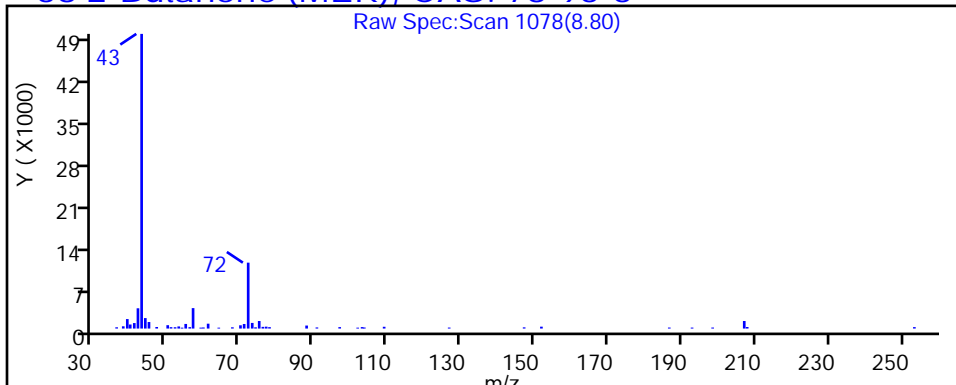
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

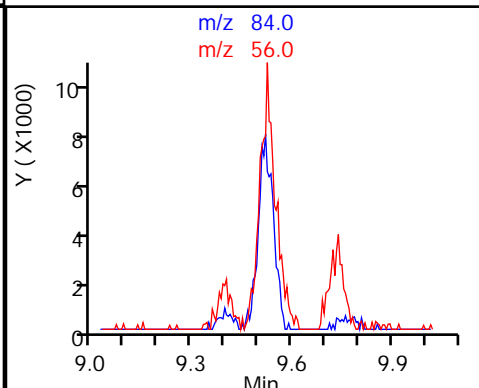
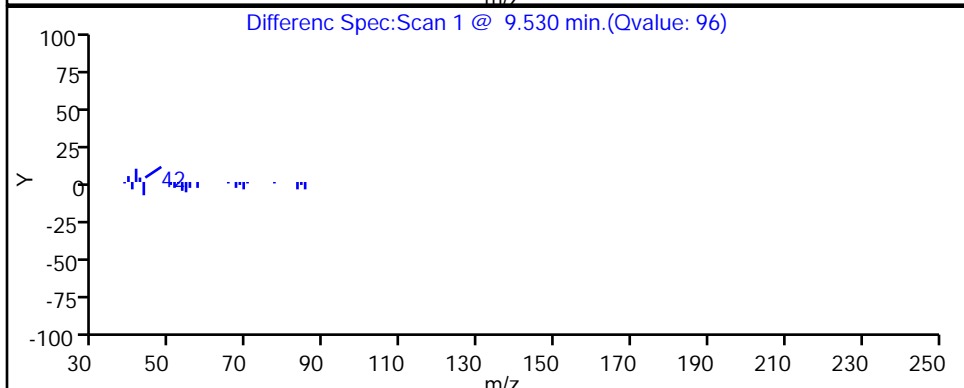
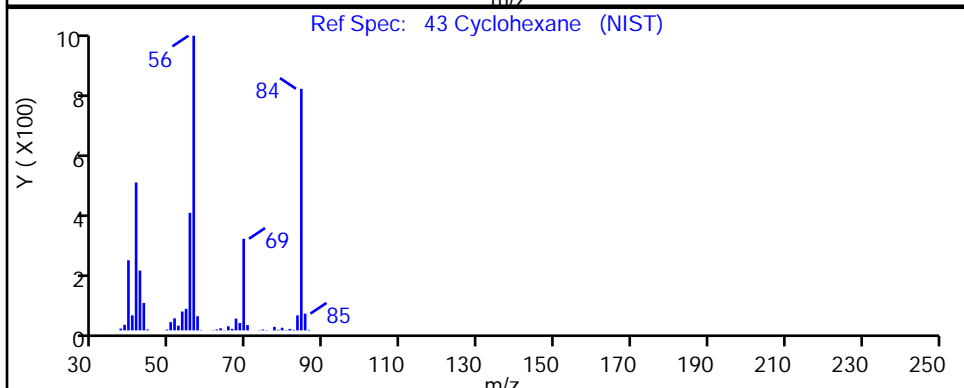
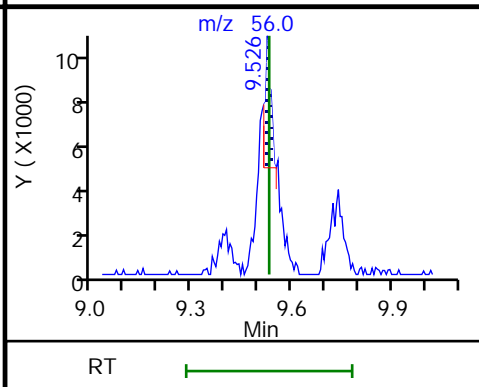
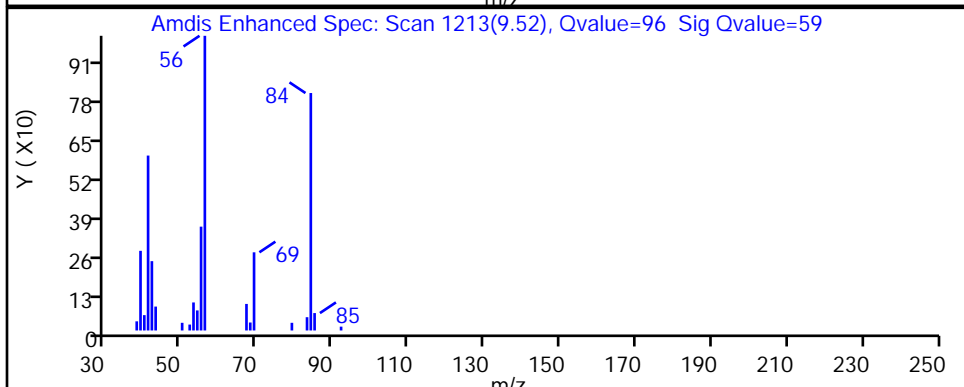
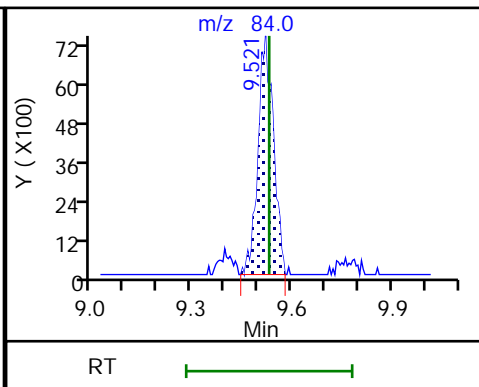
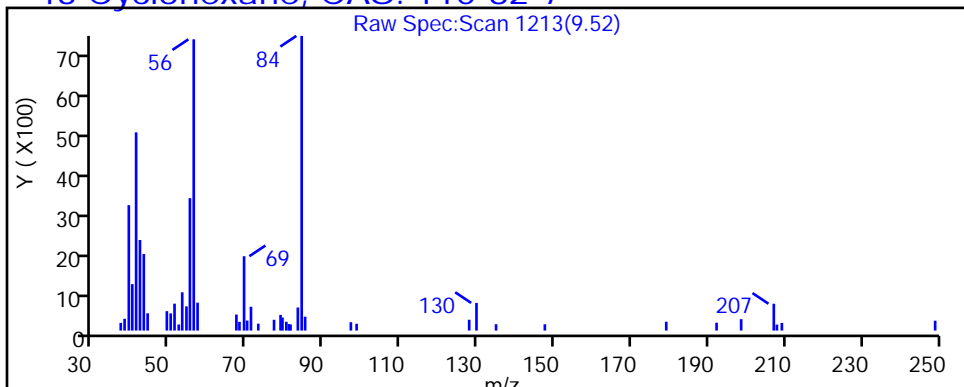
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20 Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

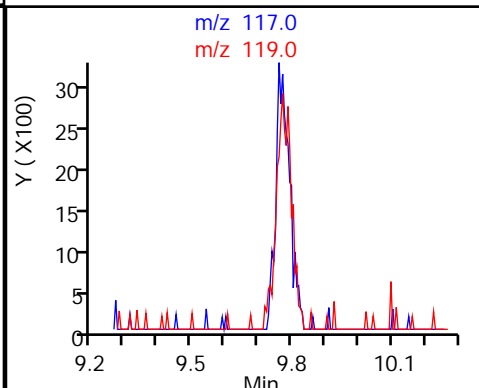
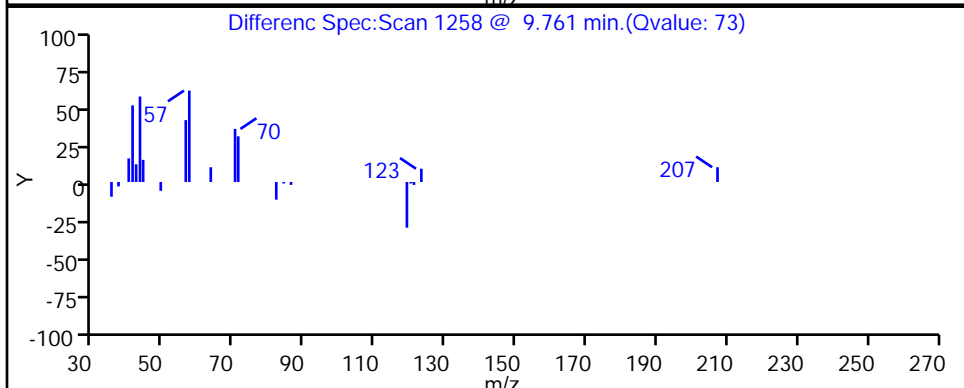
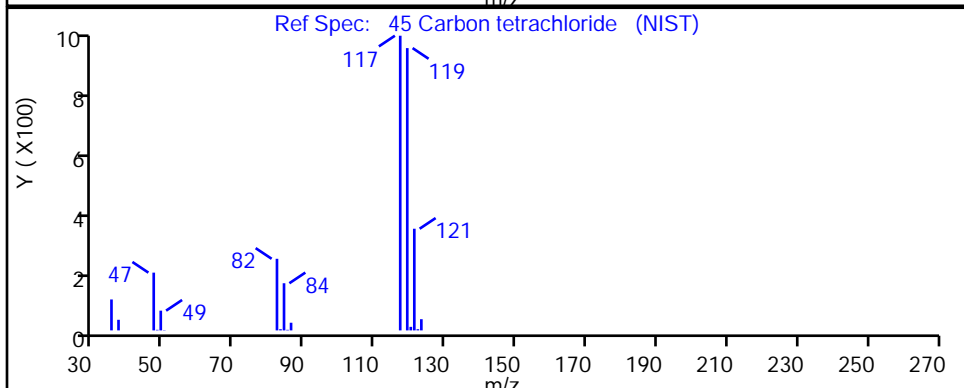
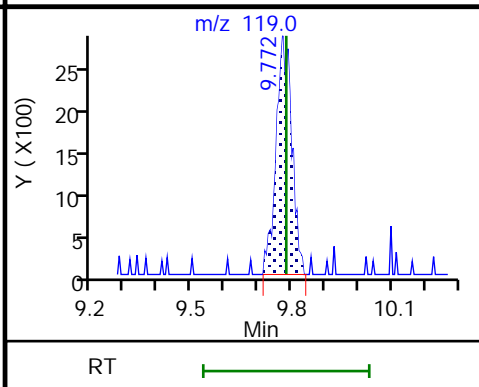
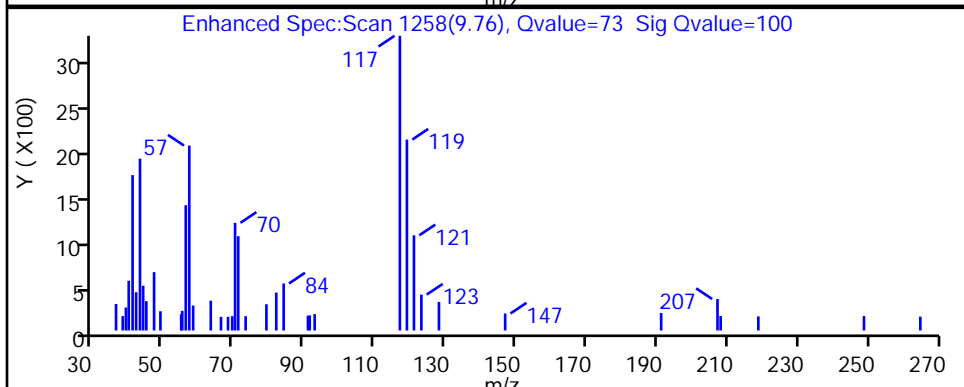
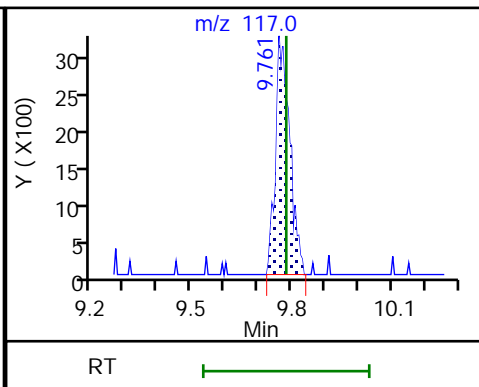
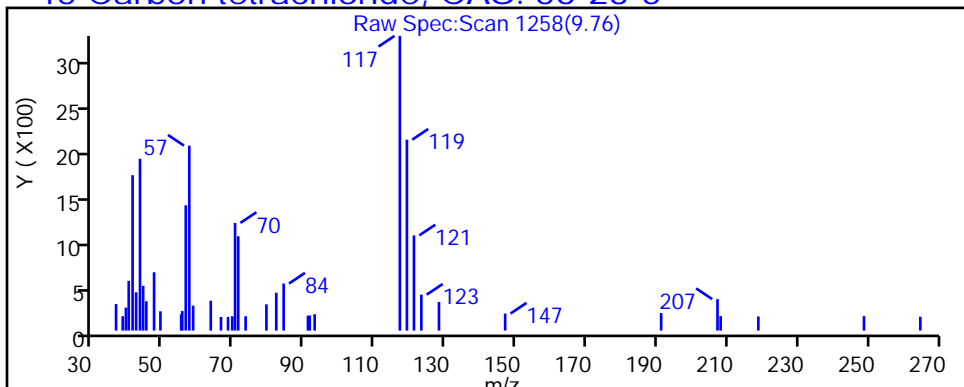
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

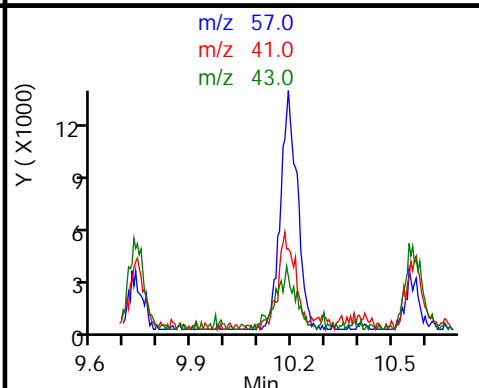
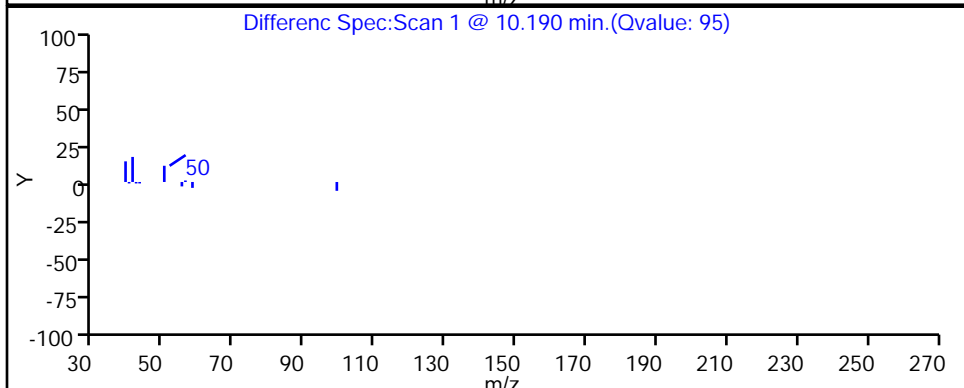
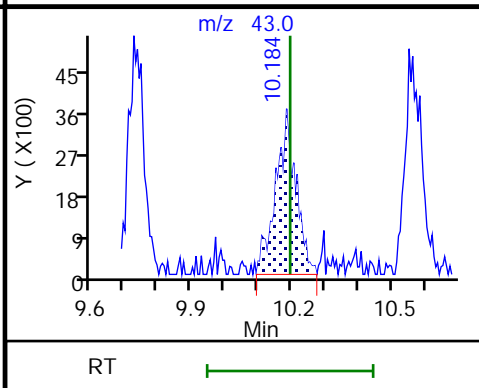
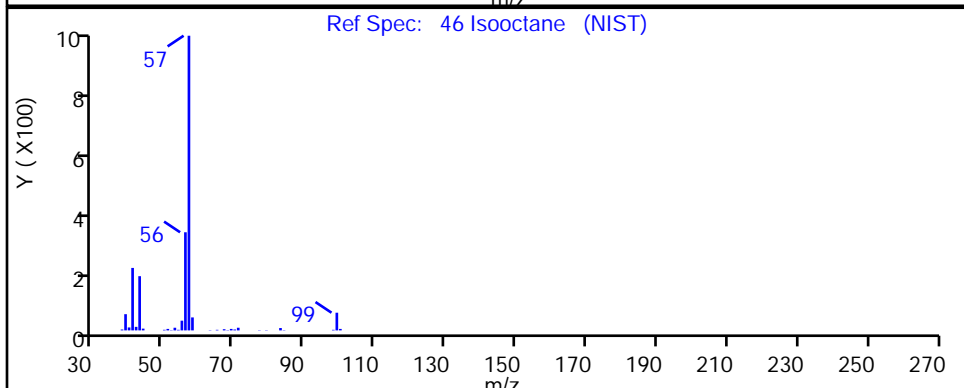
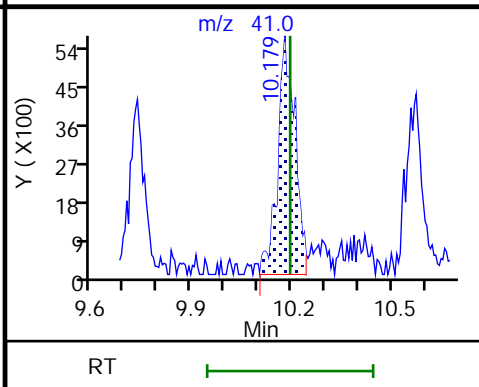
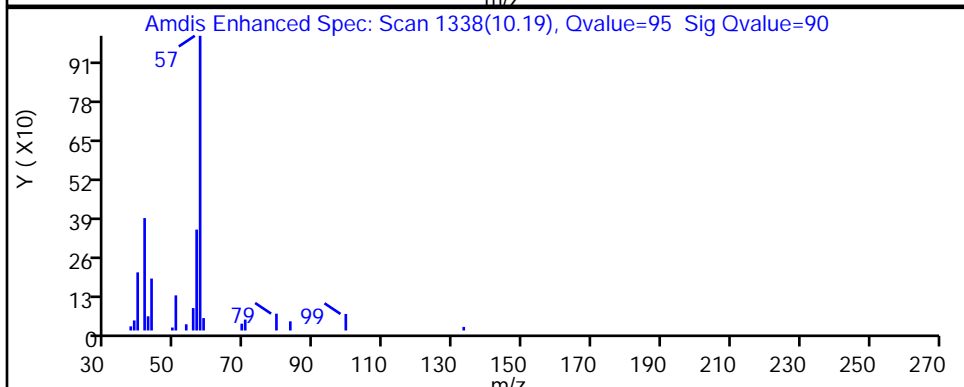
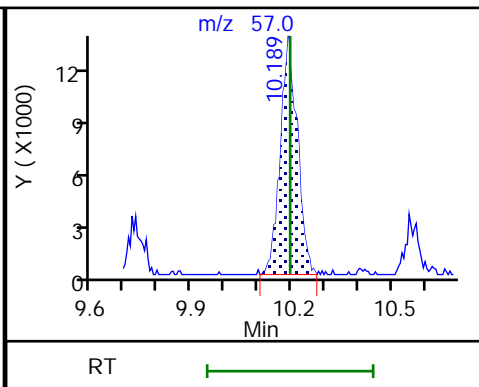
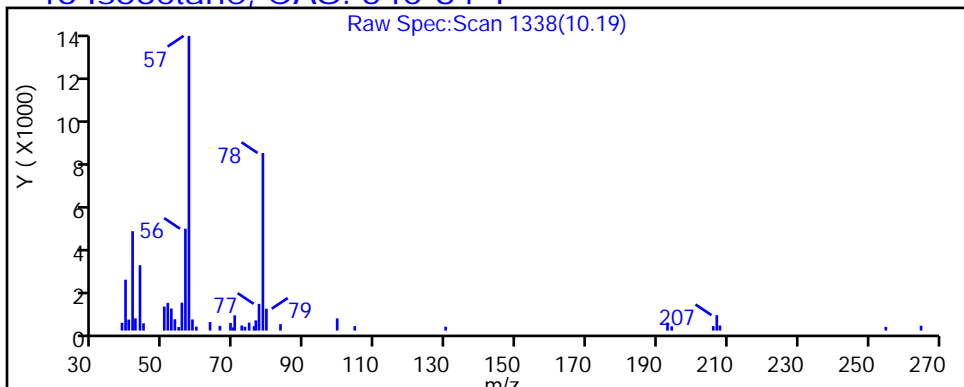
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

46 Isooctane, CAS: 540-84-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

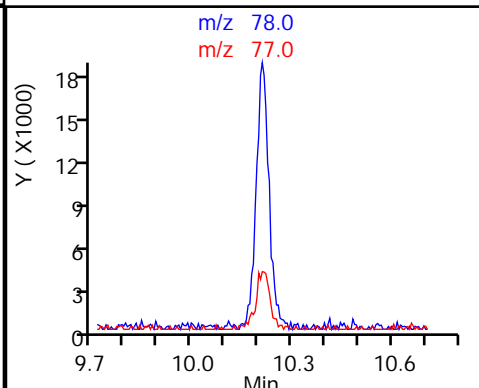
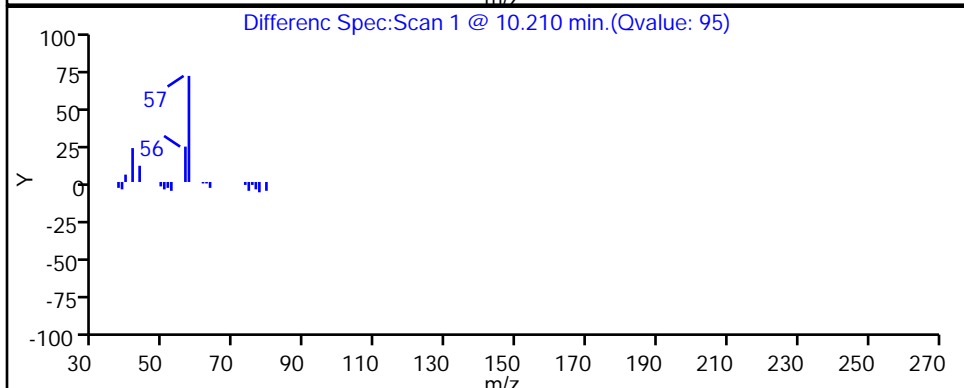
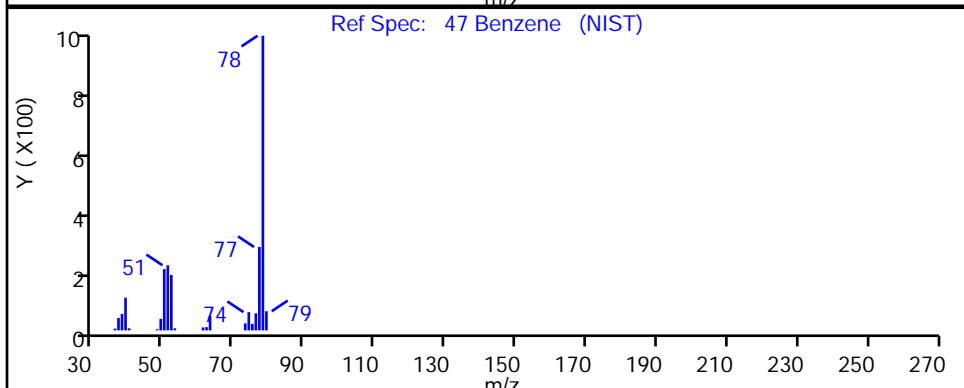
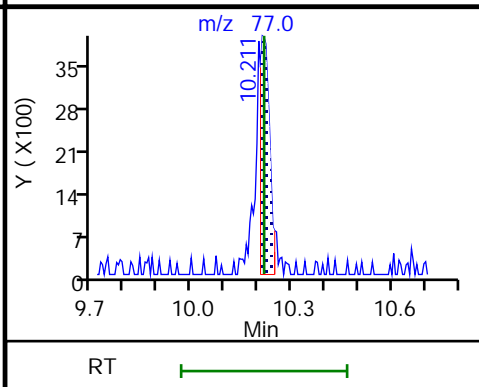
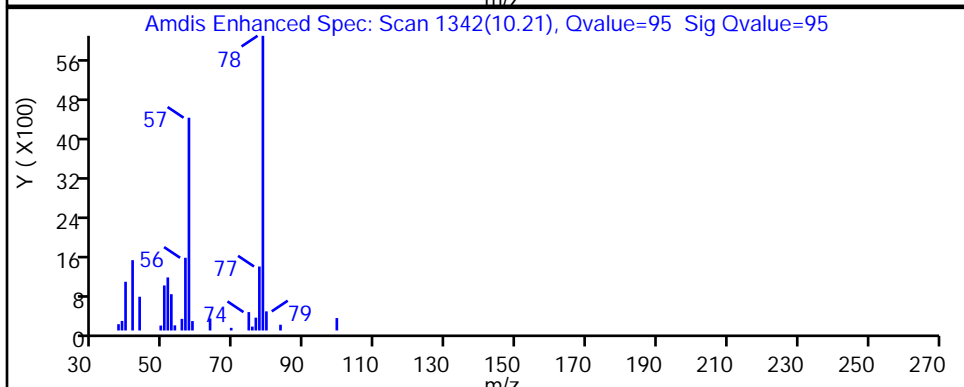
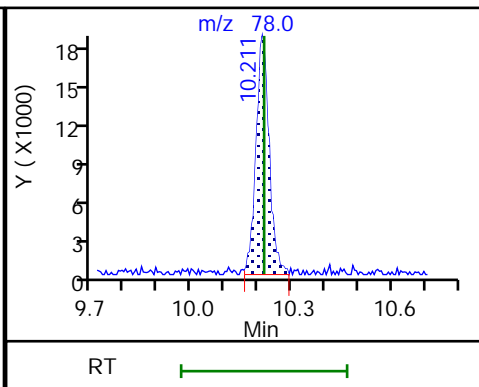
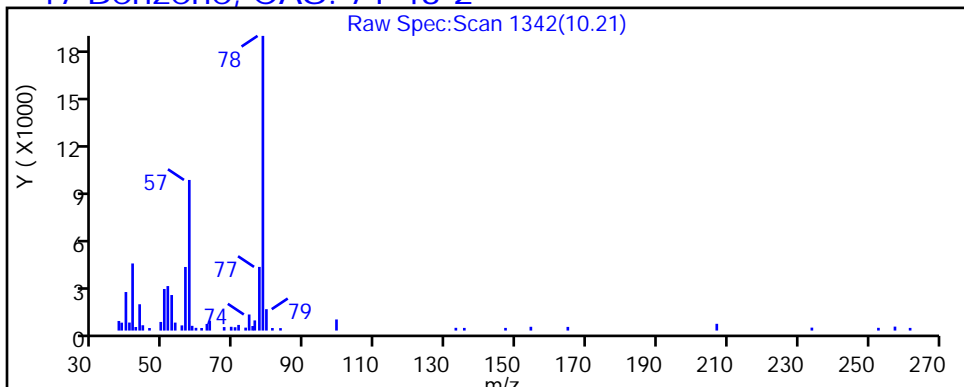
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

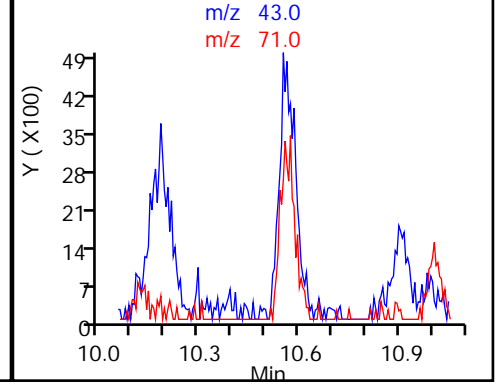
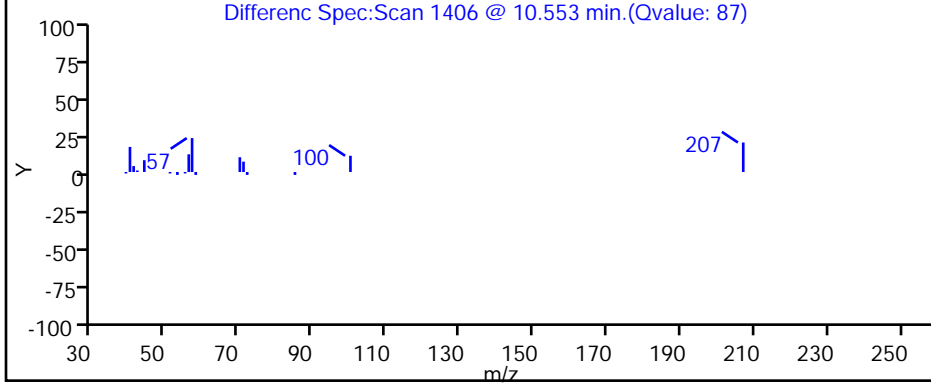
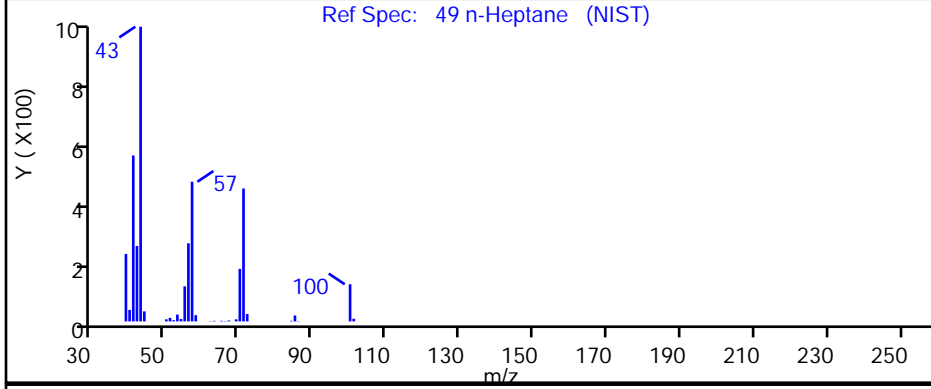
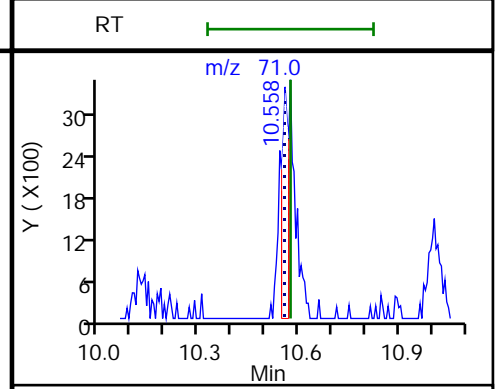
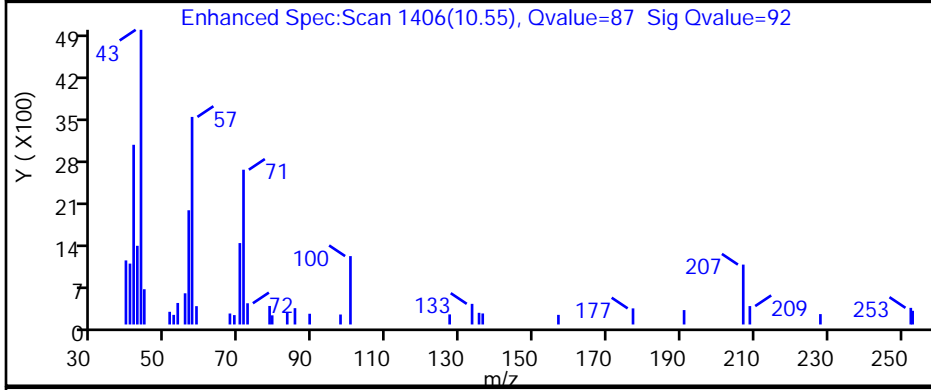
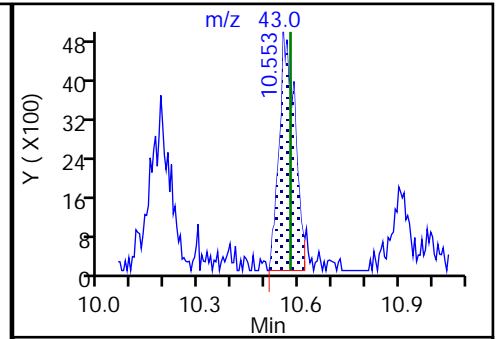
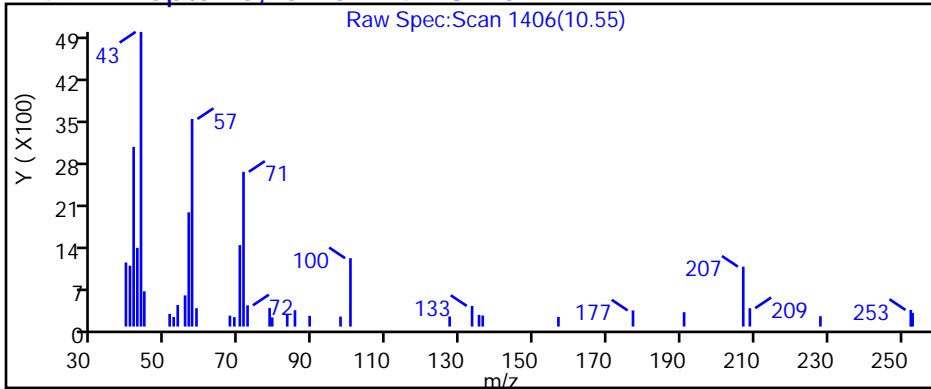
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

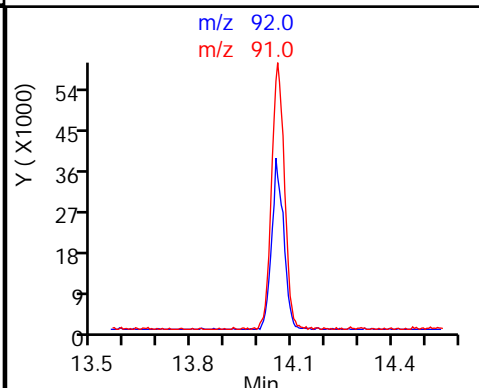
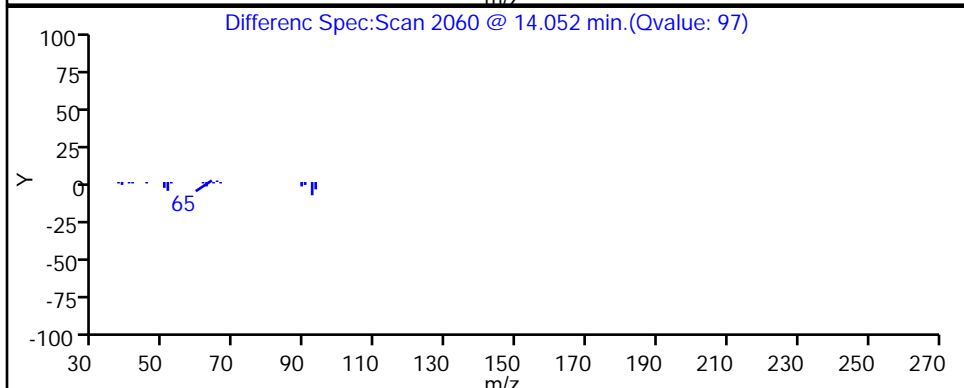
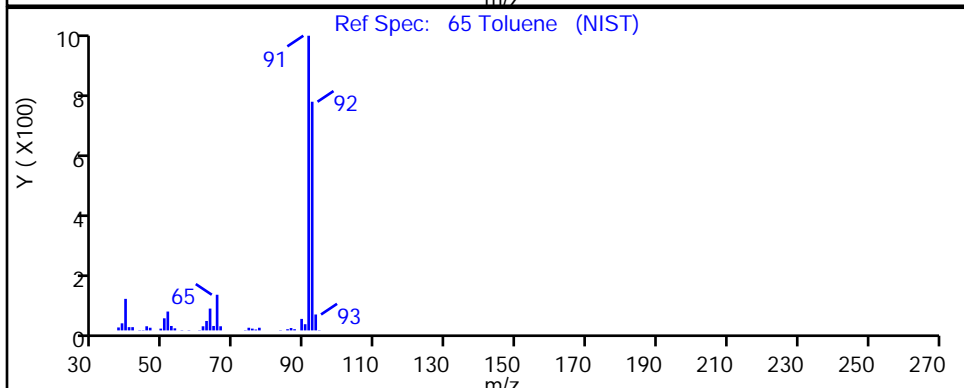
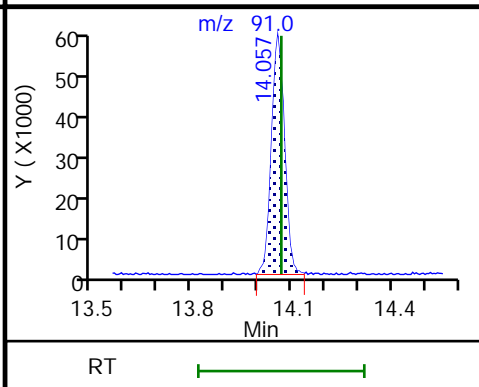
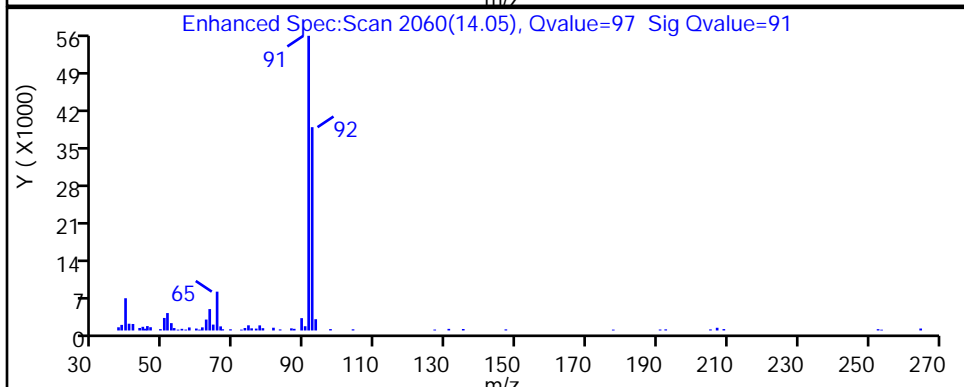
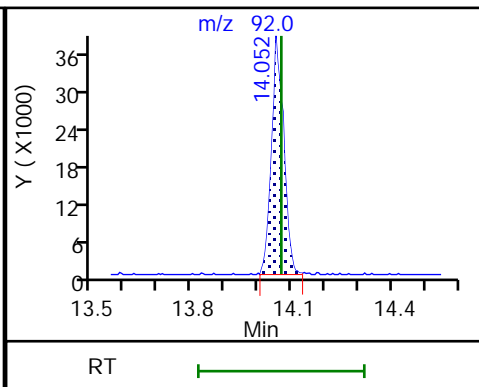
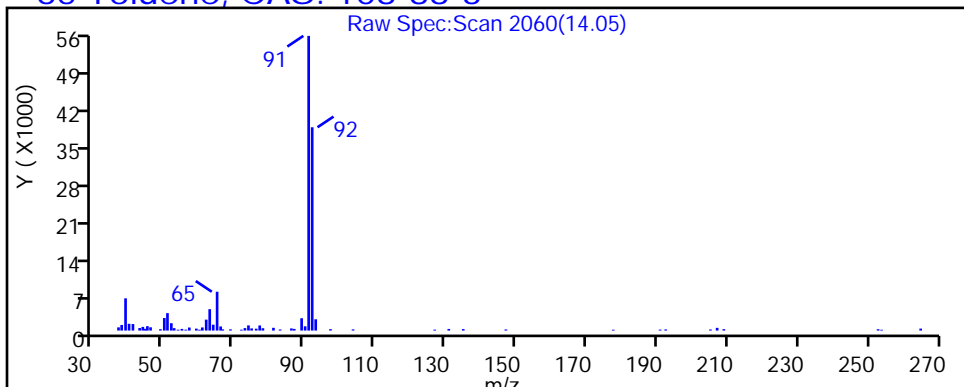
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

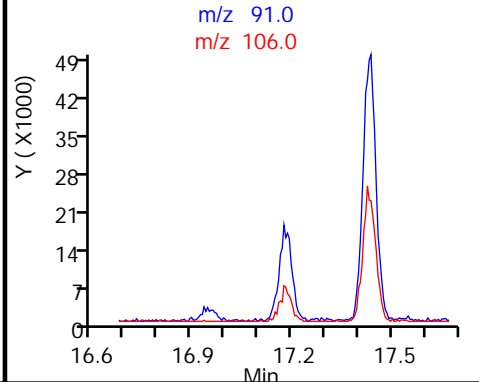
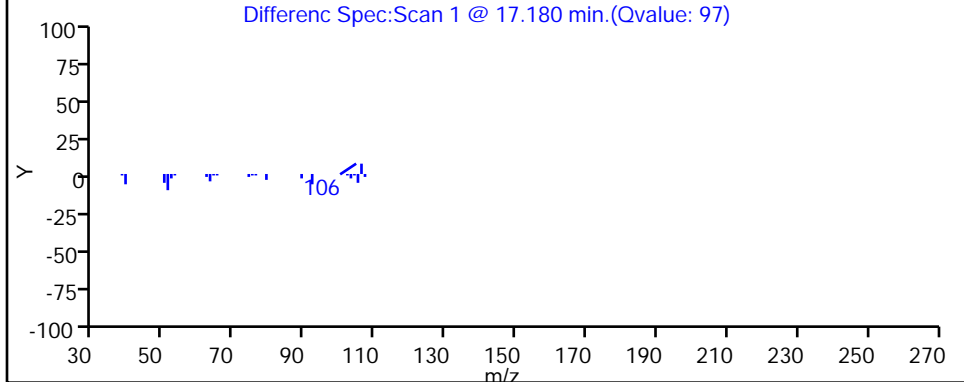
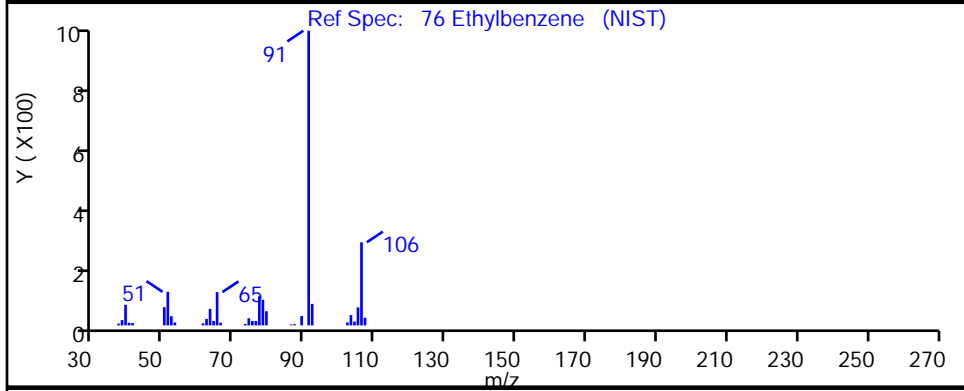
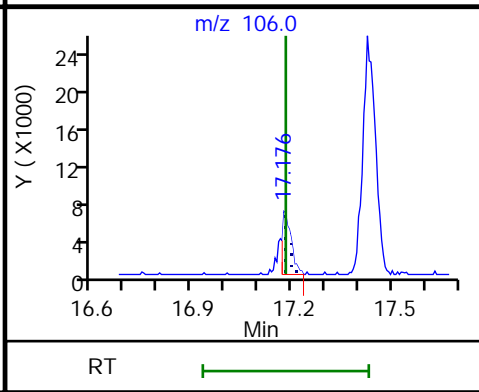
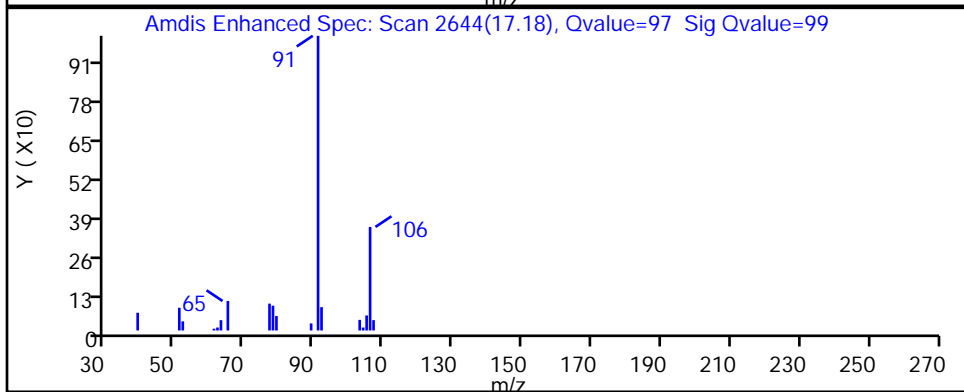
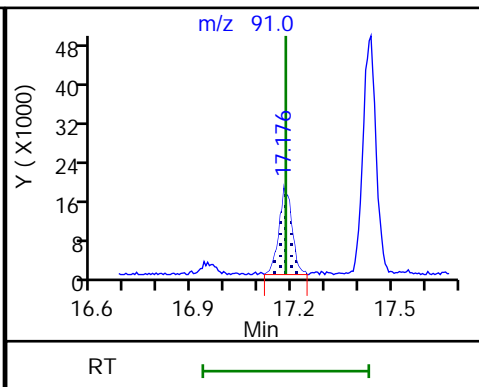
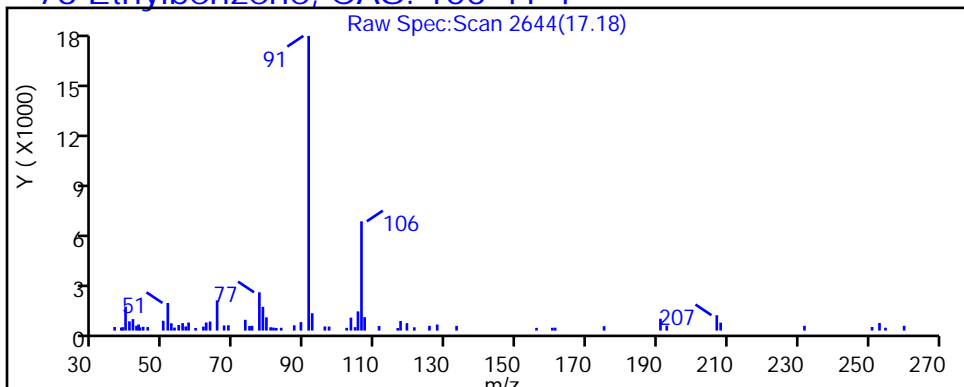
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

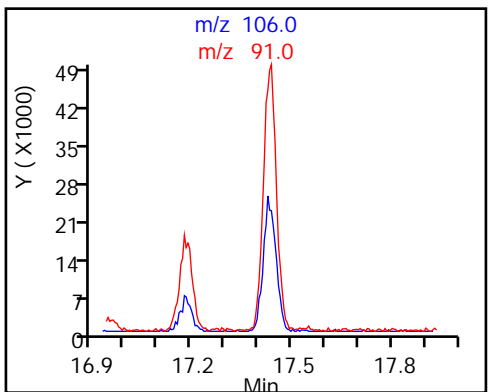
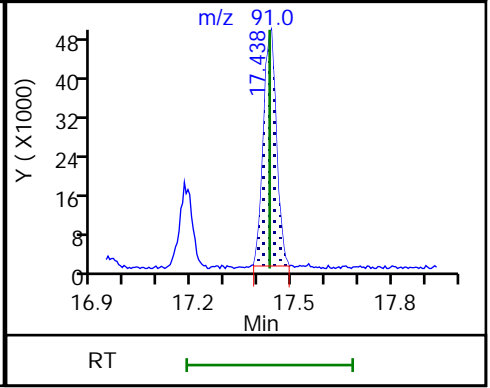
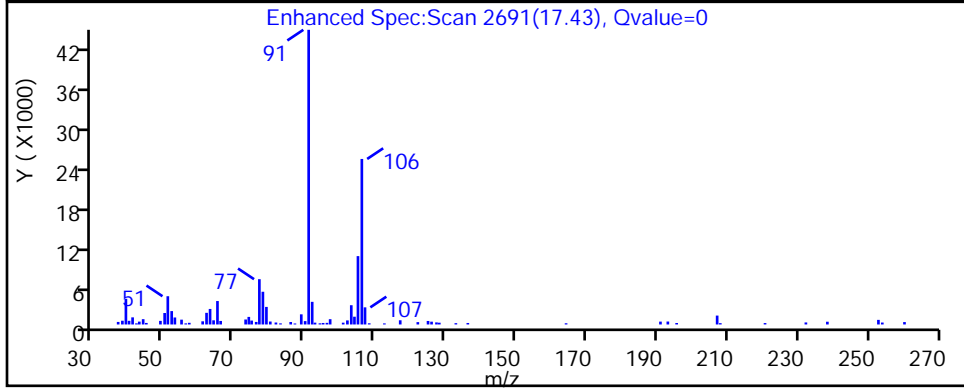
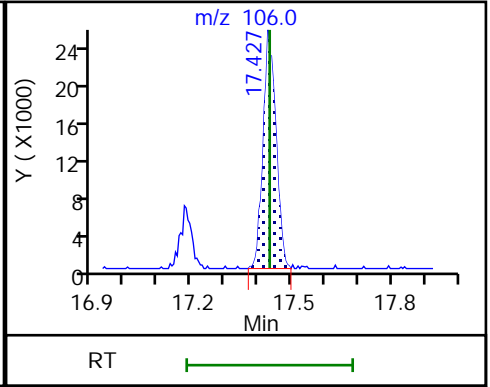
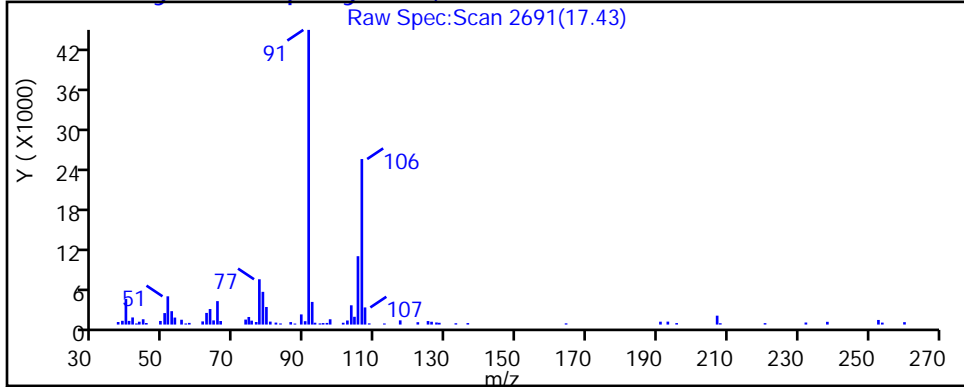
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D

Injection Date: 06-Dec-2018 06:01:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-4

Lab Sample ID: 200-46353-4

Client ID: IA-3\_20181120

Operator ID: ert

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

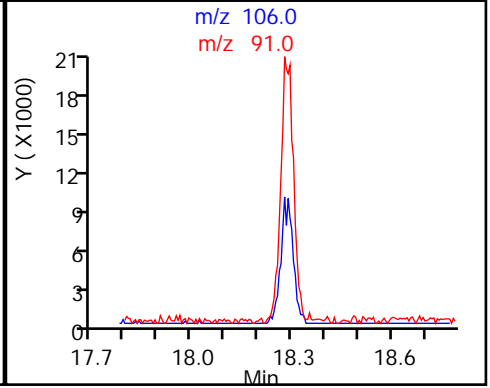
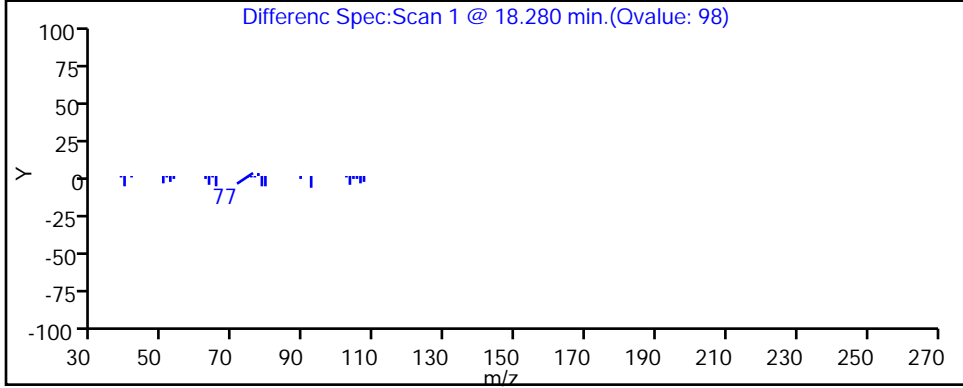
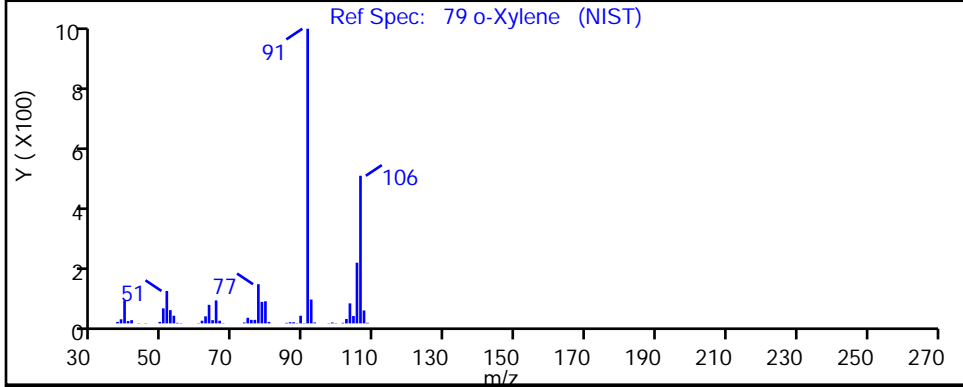
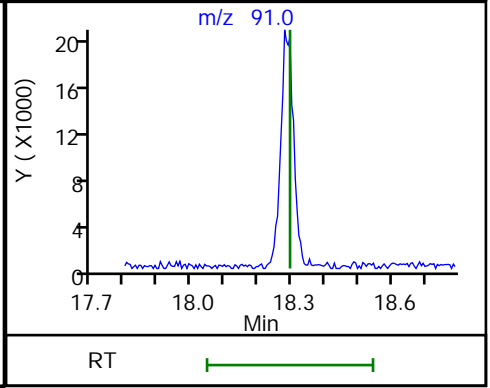
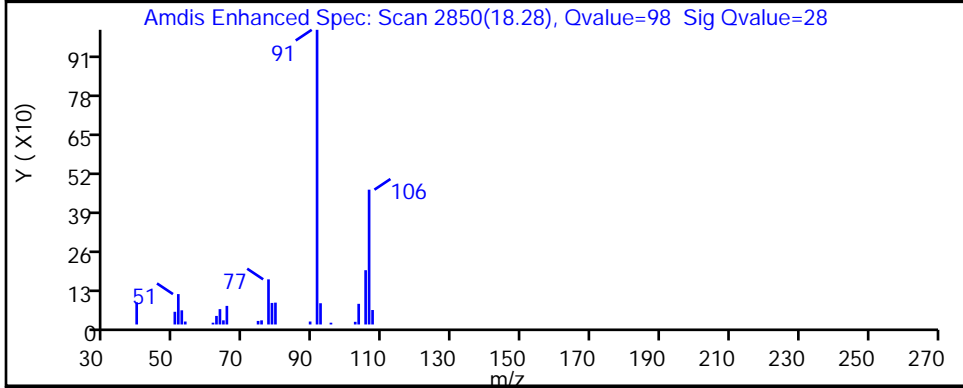
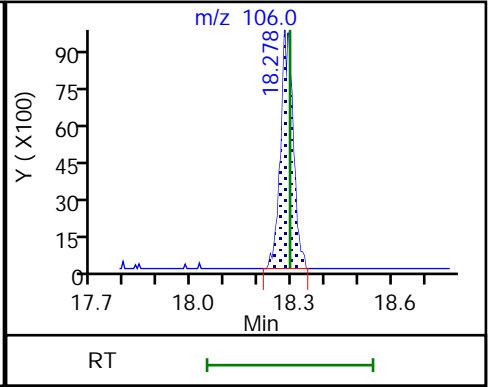
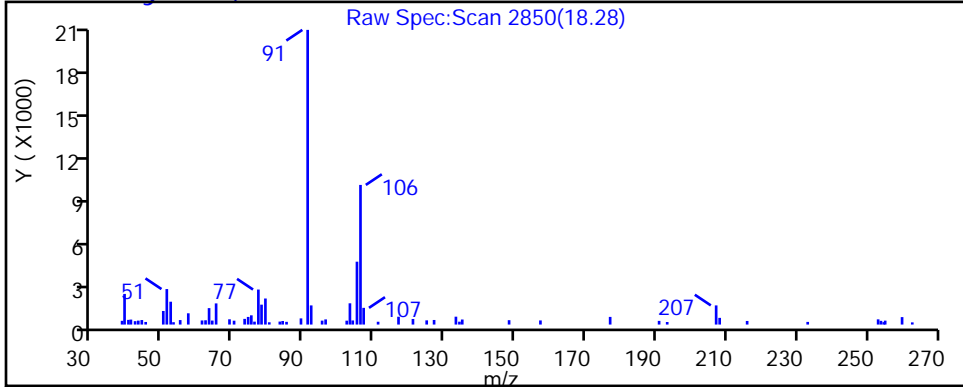
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6



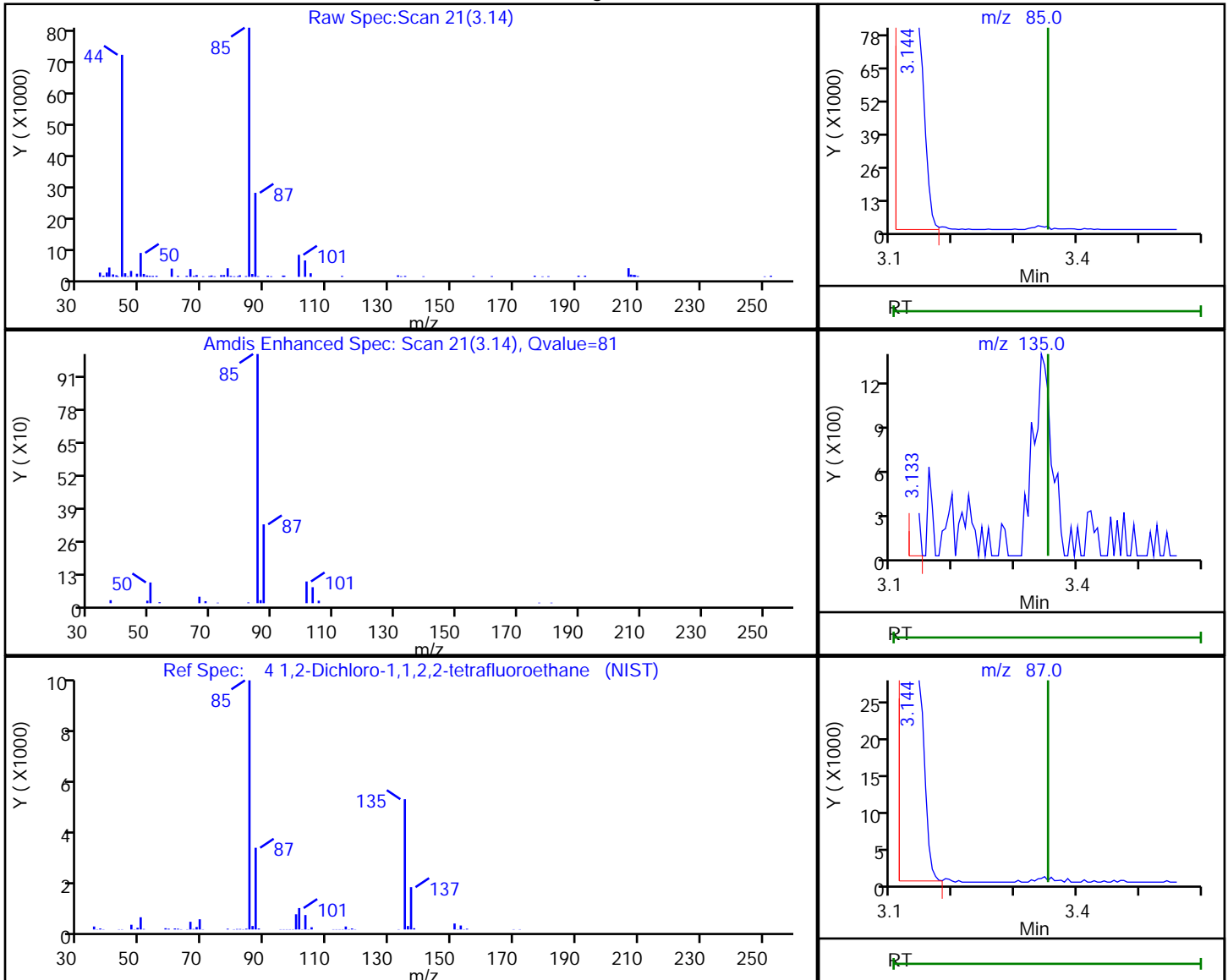


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 117057   | 0.672795 |
| 3.13 | 135.00 | 293      |          |
| 3.14 | 87.00  | 36350    |          |

Reviewer: bunmaa, 07-Dec-2018 09:01:01  
 Audit Action: Marked Compound Undetected

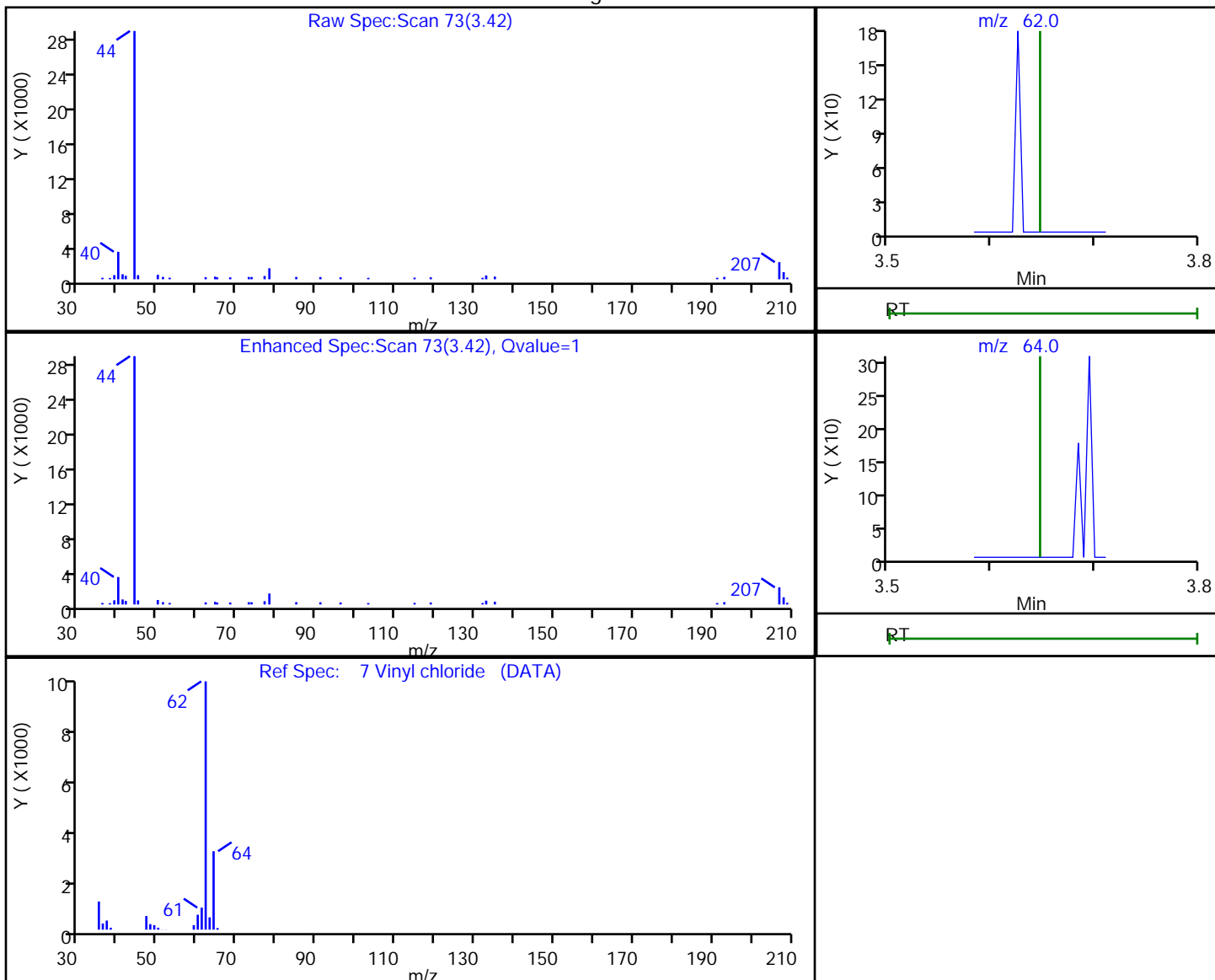
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.42 | 62.00 | 138      | 0.002549 |
| 3.65 | 64.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:53:39

Audit Action: Marked Compound Undetected

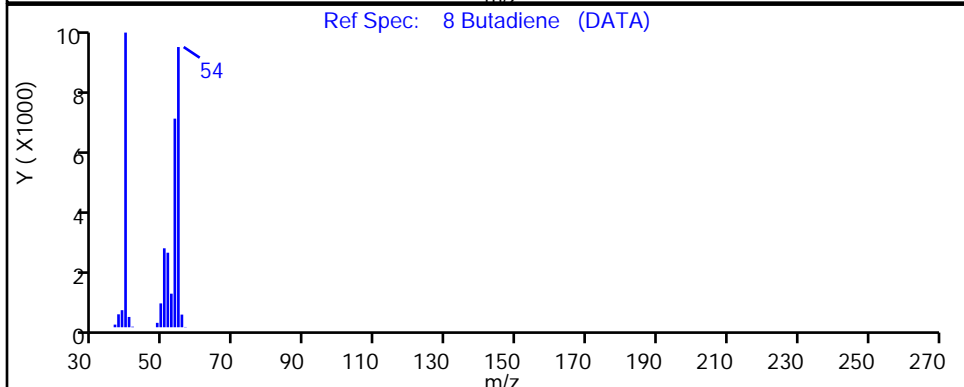
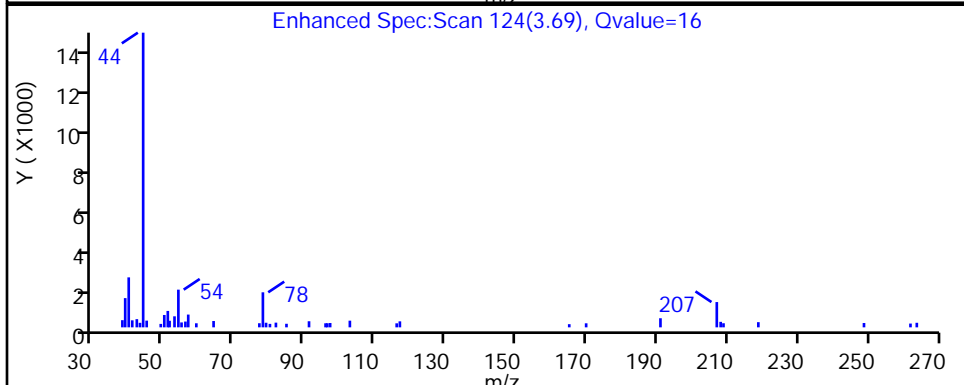
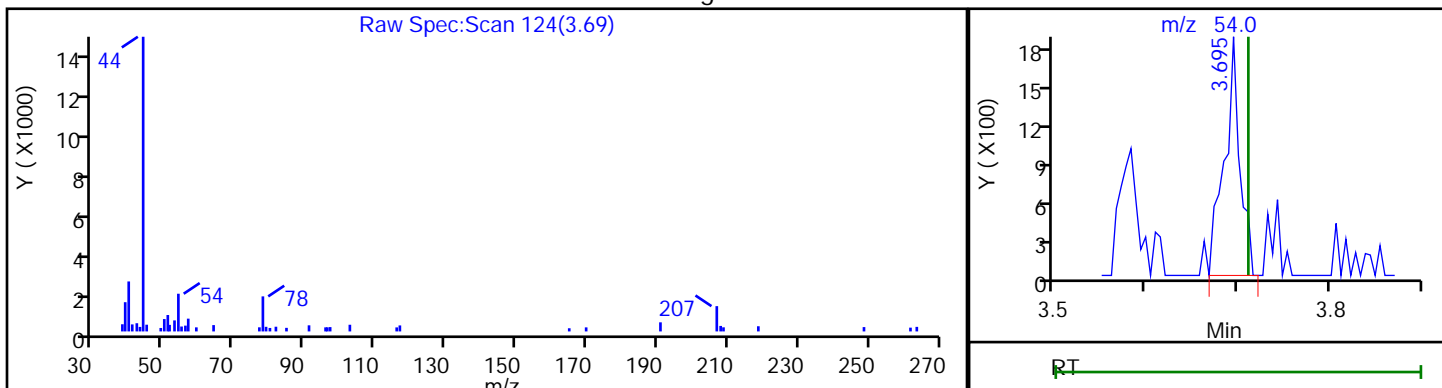
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 2163     | 0.064204 |

Reviewer: bunmaa, 07-Dec-2018 09:01:12

Audit Action: Marked Compound Undetected

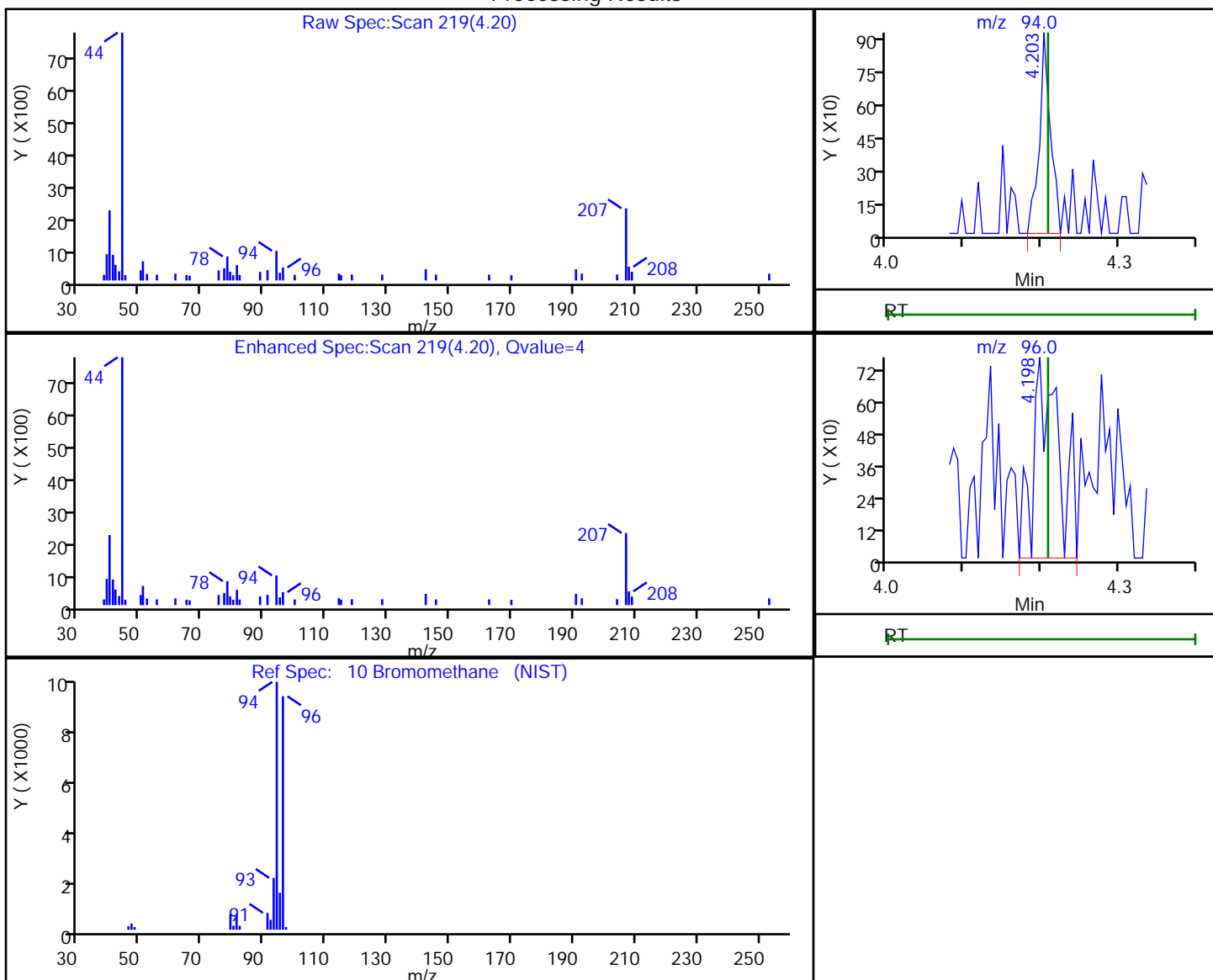
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.20 | 94.00 | 935      | 0.014956 |
| 4.20 | 96.00 | 1765     |          |

Reviewer: bunmaa, 07-Dec-2018 09:01:26

Audit Action: Marked Compound Undetected

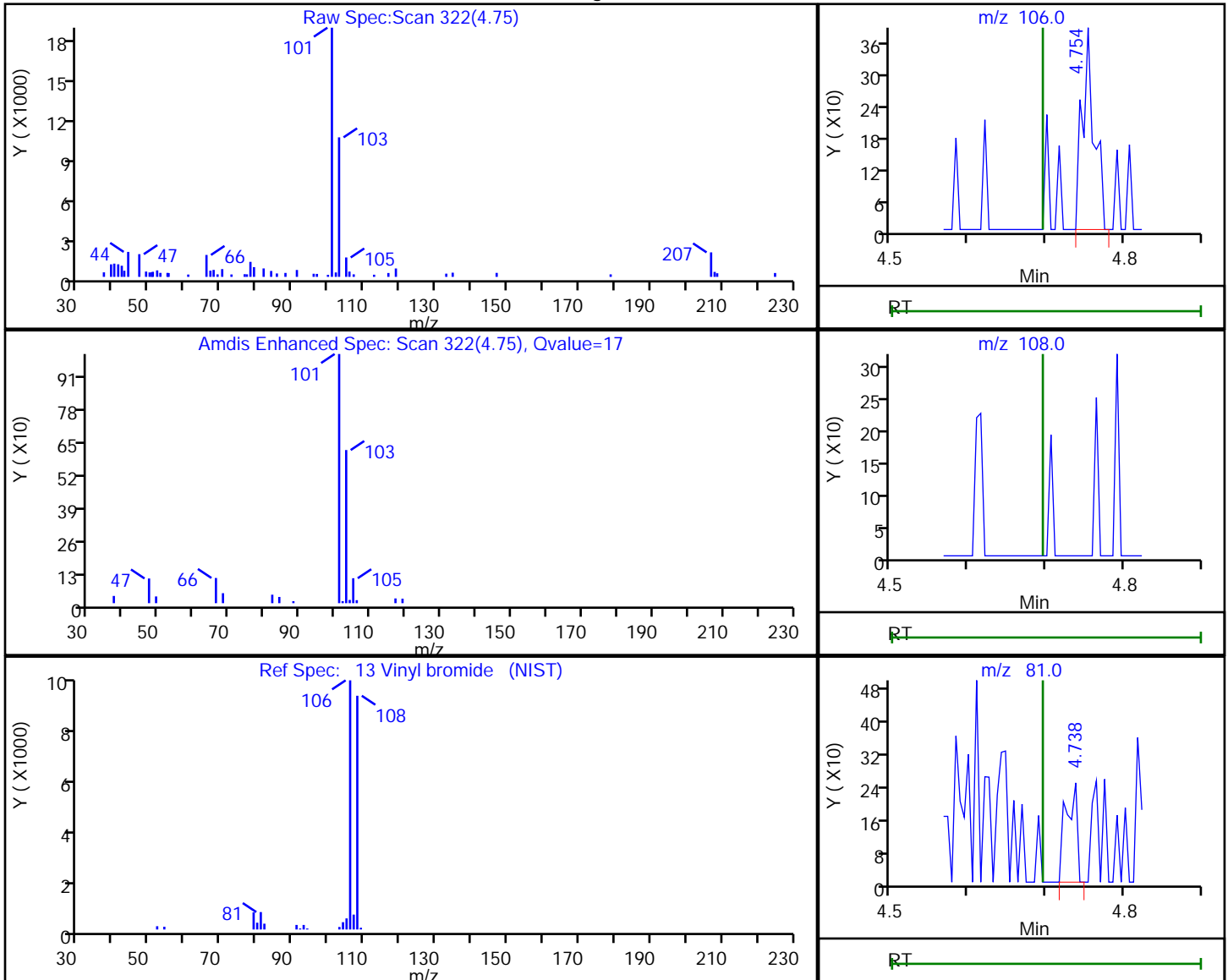
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.75 | 106.00 | 421      | 0.006811 |
| 4.74 | 81.00  | 243      |          |
| 4.70 | 108.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:53:49  
 Audit Action: Marked Compound Undetected

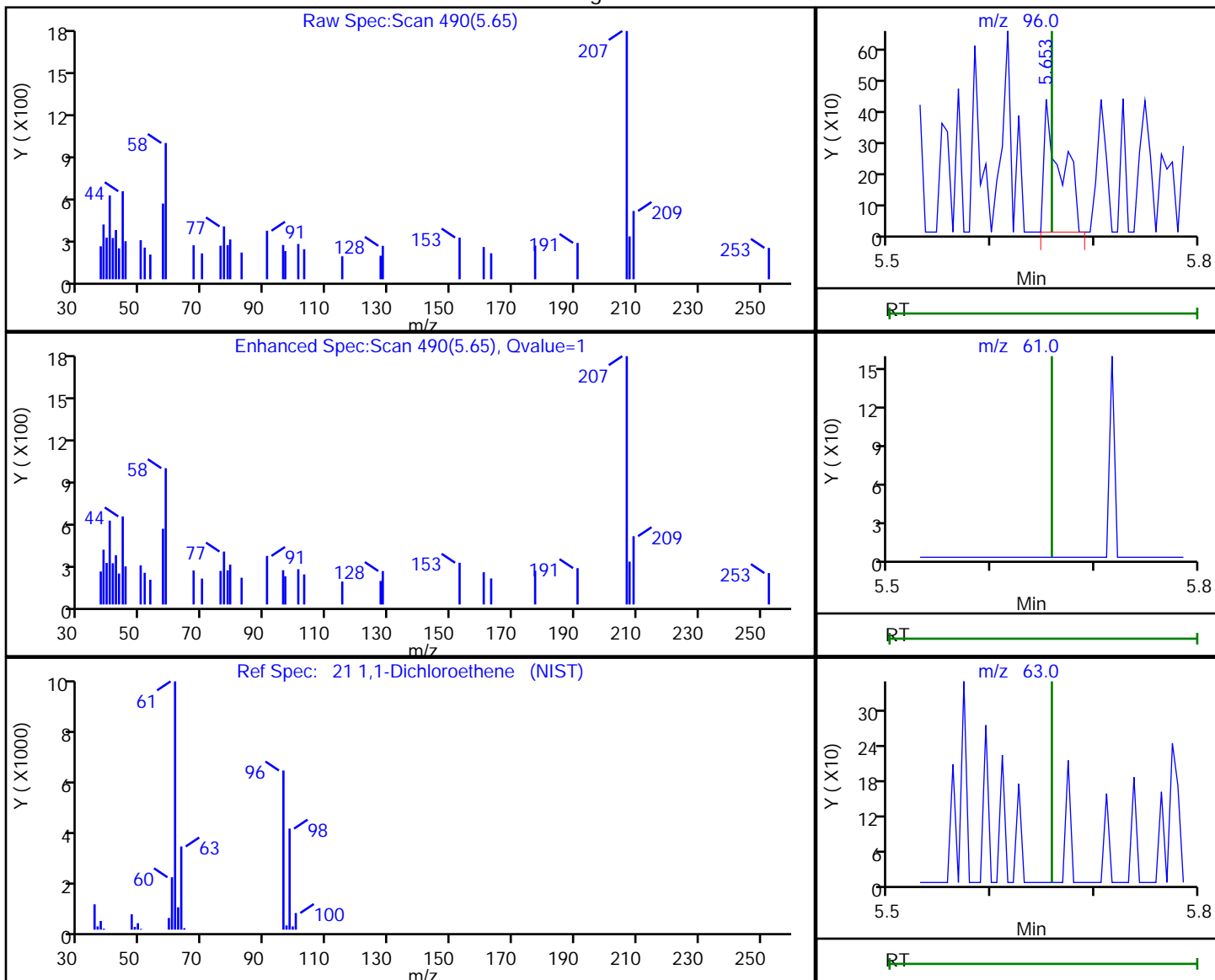
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.65 | 96.00 | 490      | 0.008650 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:53:52  
 Audit Action: Marked Compound Undetected

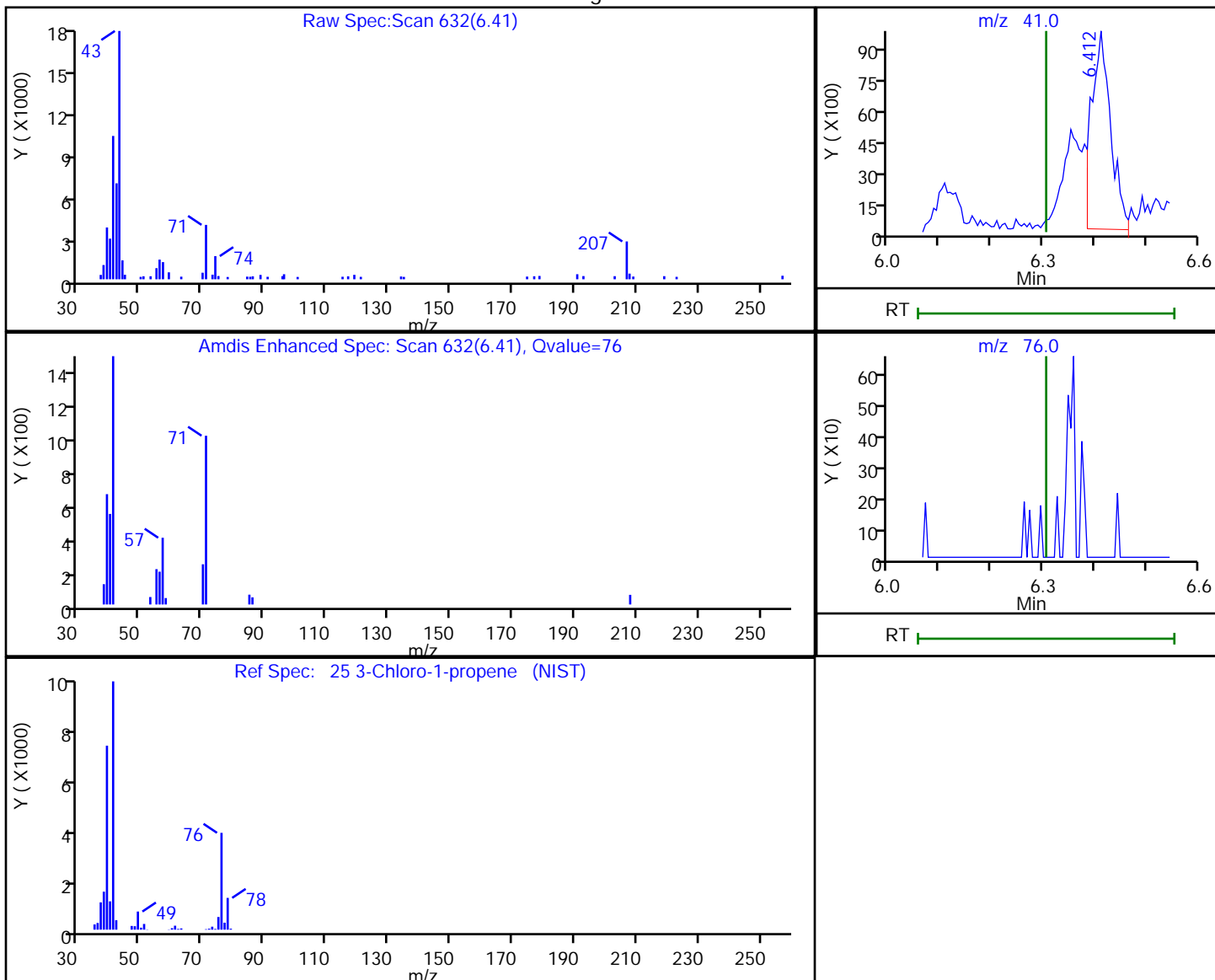
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.41 | 41.00 | 24978    | 0.592665 |
| 6.31 | 76.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:02:11

Audit Action: Marked Compound Undetected

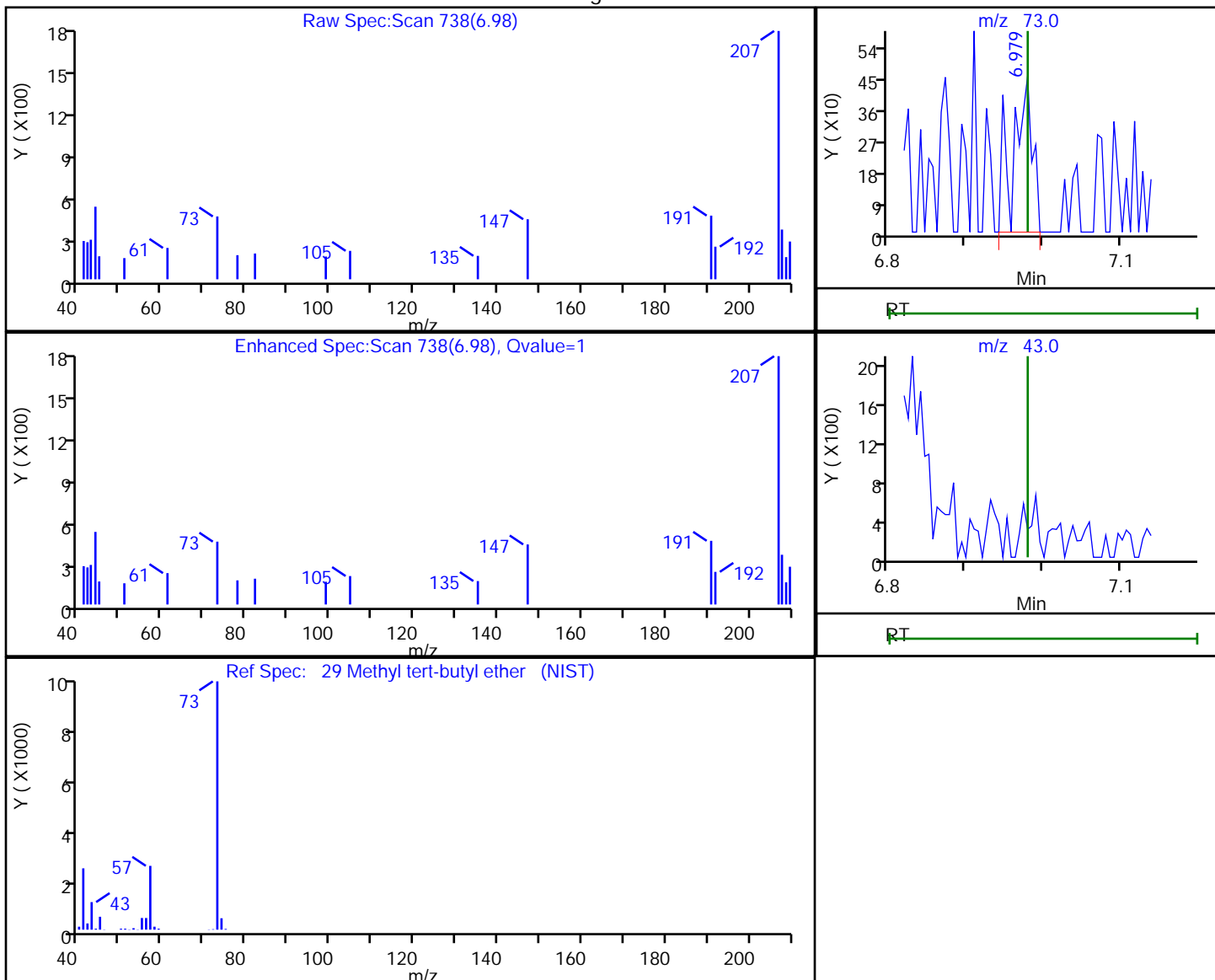
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.98 | 73.00 | 781      | 0.007092 |
| 6.98 | 43.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:55:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

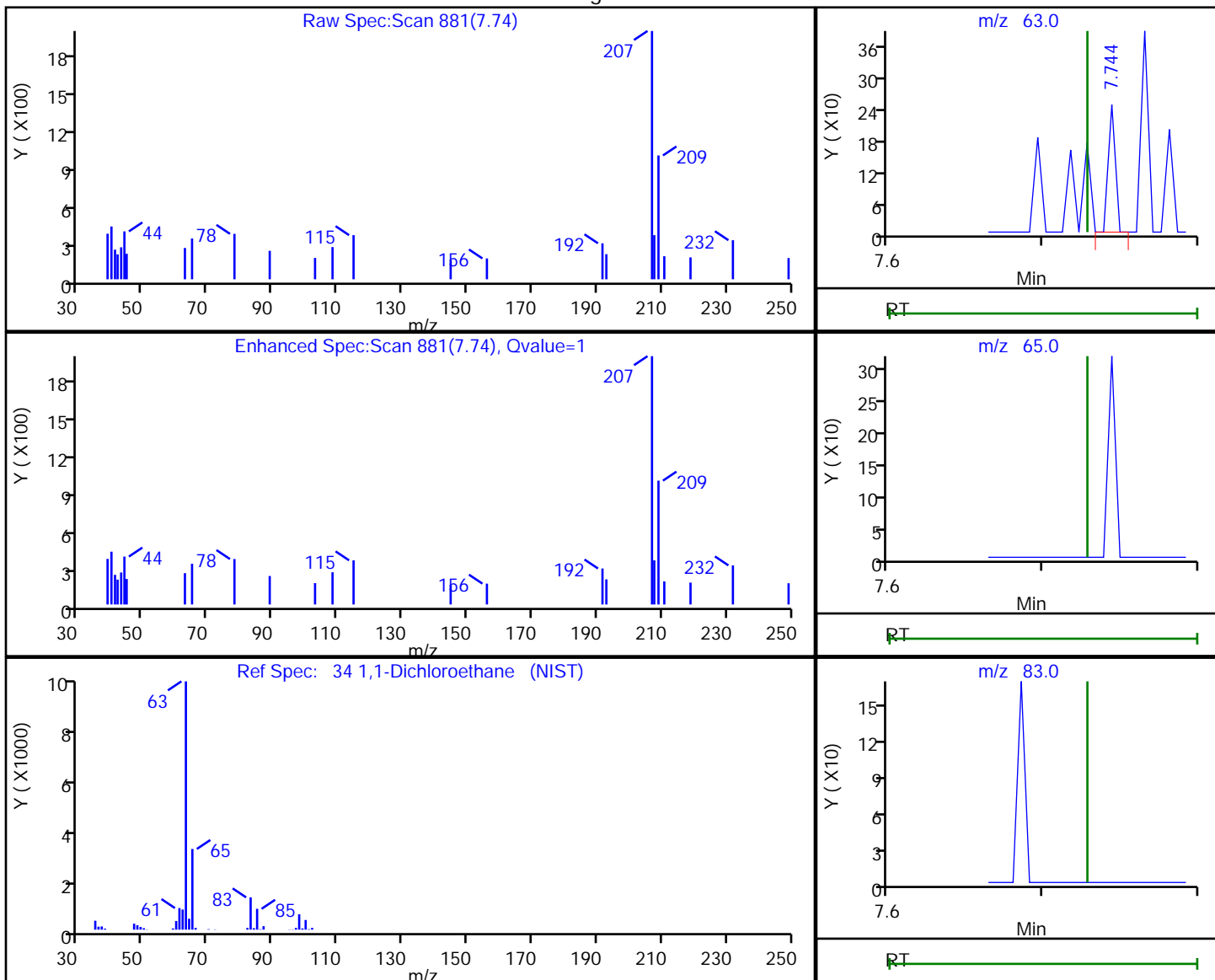


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.74 | 63.00 | 78       | 0.000881 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:55:18  
 Audit Action: Marked Compound Undetected

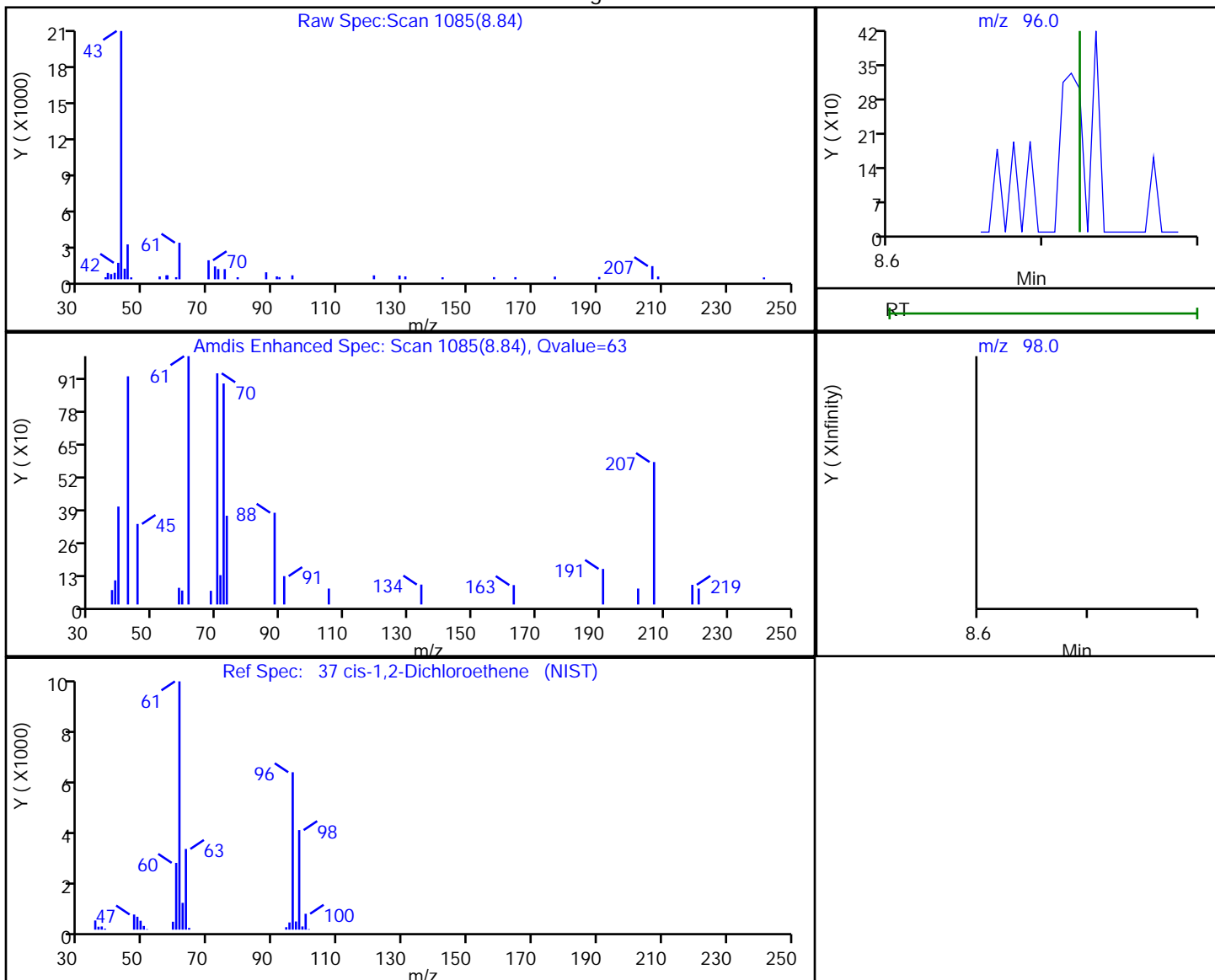
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.84 | 96.00 | 233      | 0.004342 |
| 8.72 | 98.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:55:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

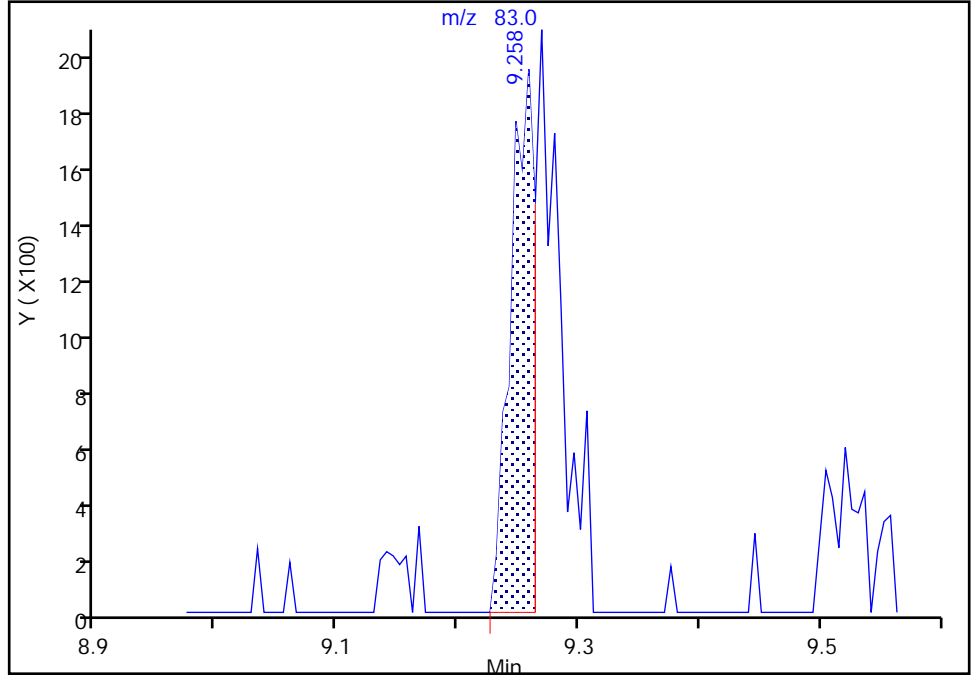
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

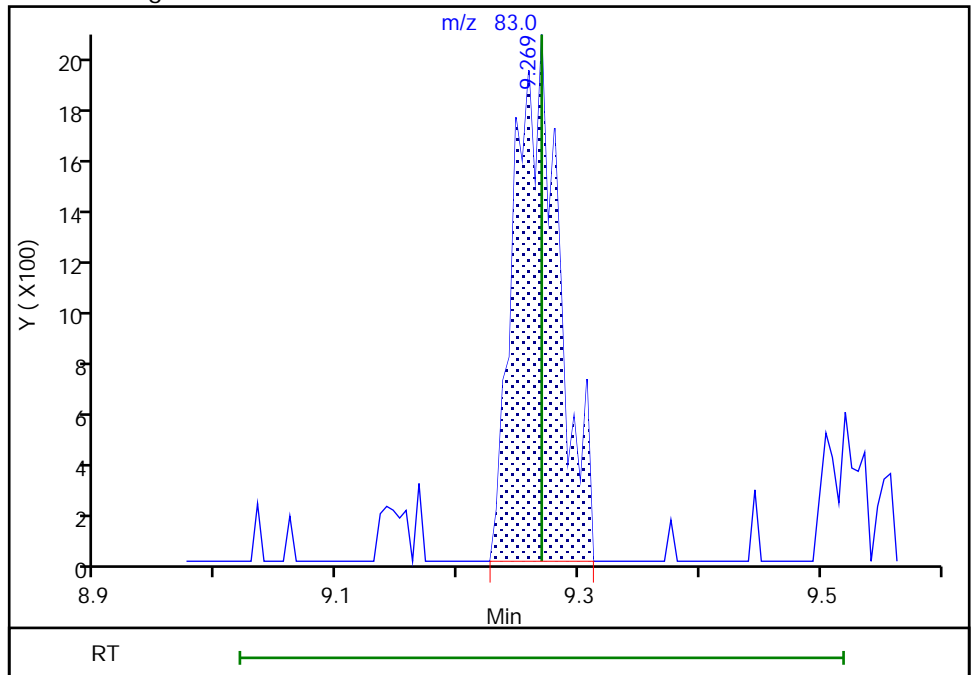
RT: 9.26  
Area: 2699  
Amount: 0.020851  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.27  
Area: 5299  
Amount: 0.040938  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:03:04  
Audit Action: Manually Integrated

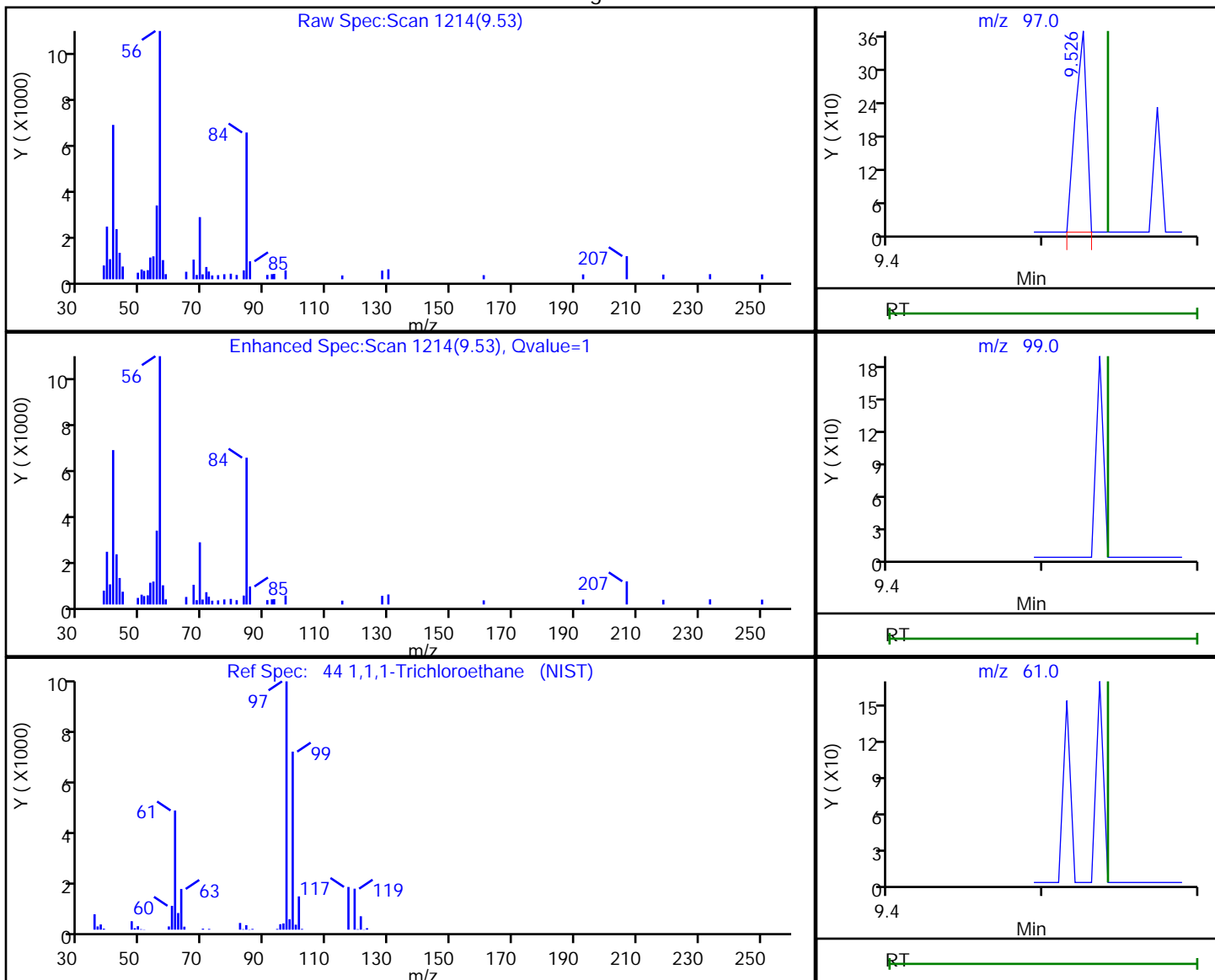
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.53 | 97.00 | 186      | 0.001133 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:03:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

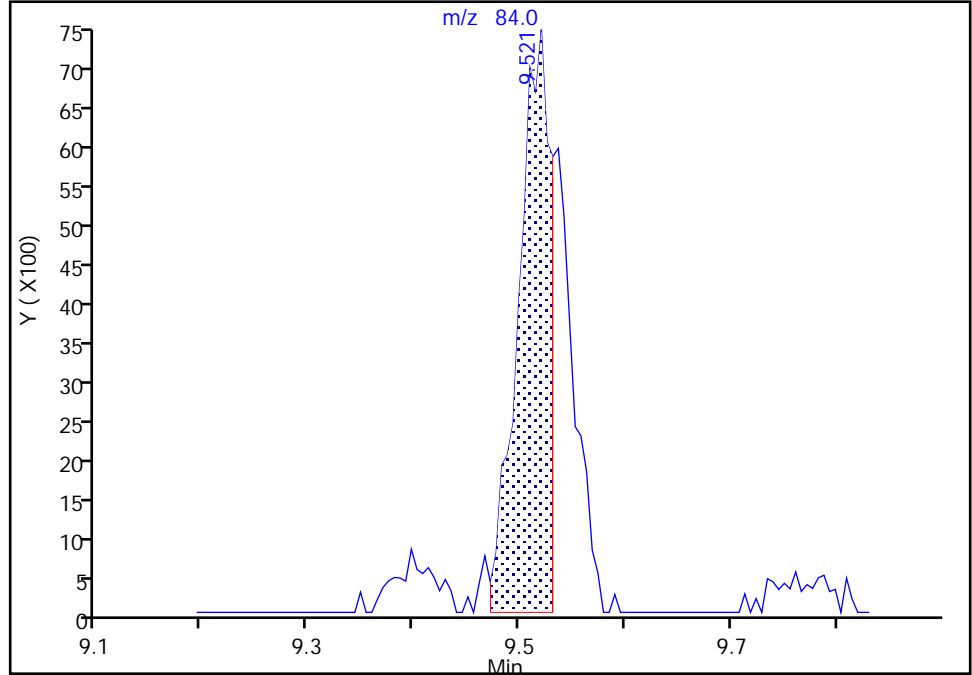
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

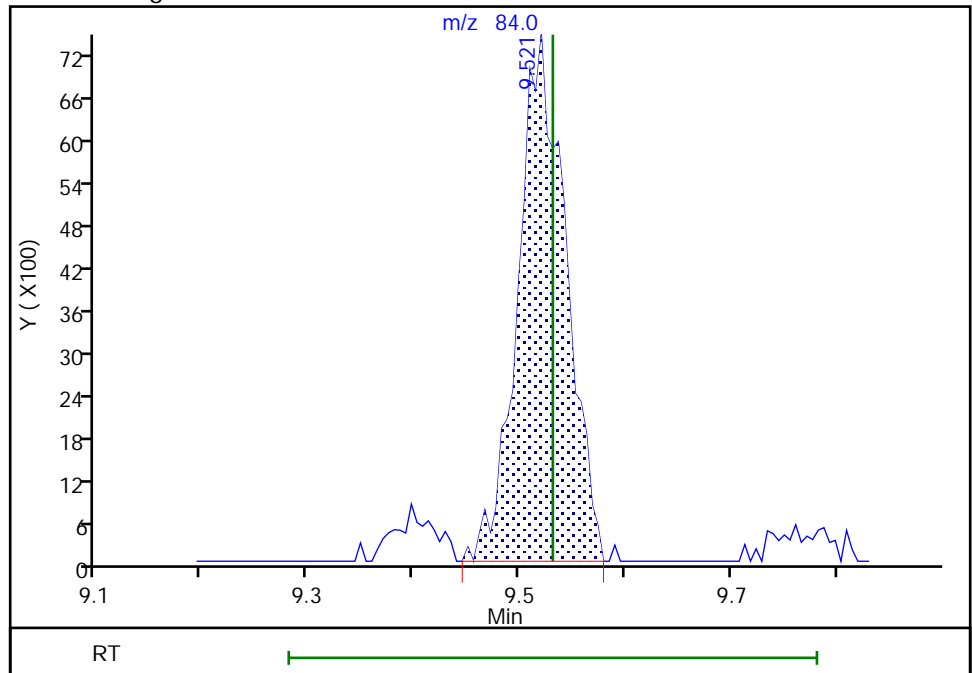
RT: 9.52  
Area: 15942  
Amount: 0.235122  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.52  
Area: 23607  
Amount: 0.348170  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 11:55:49  
Audit Action: Manually Integrated

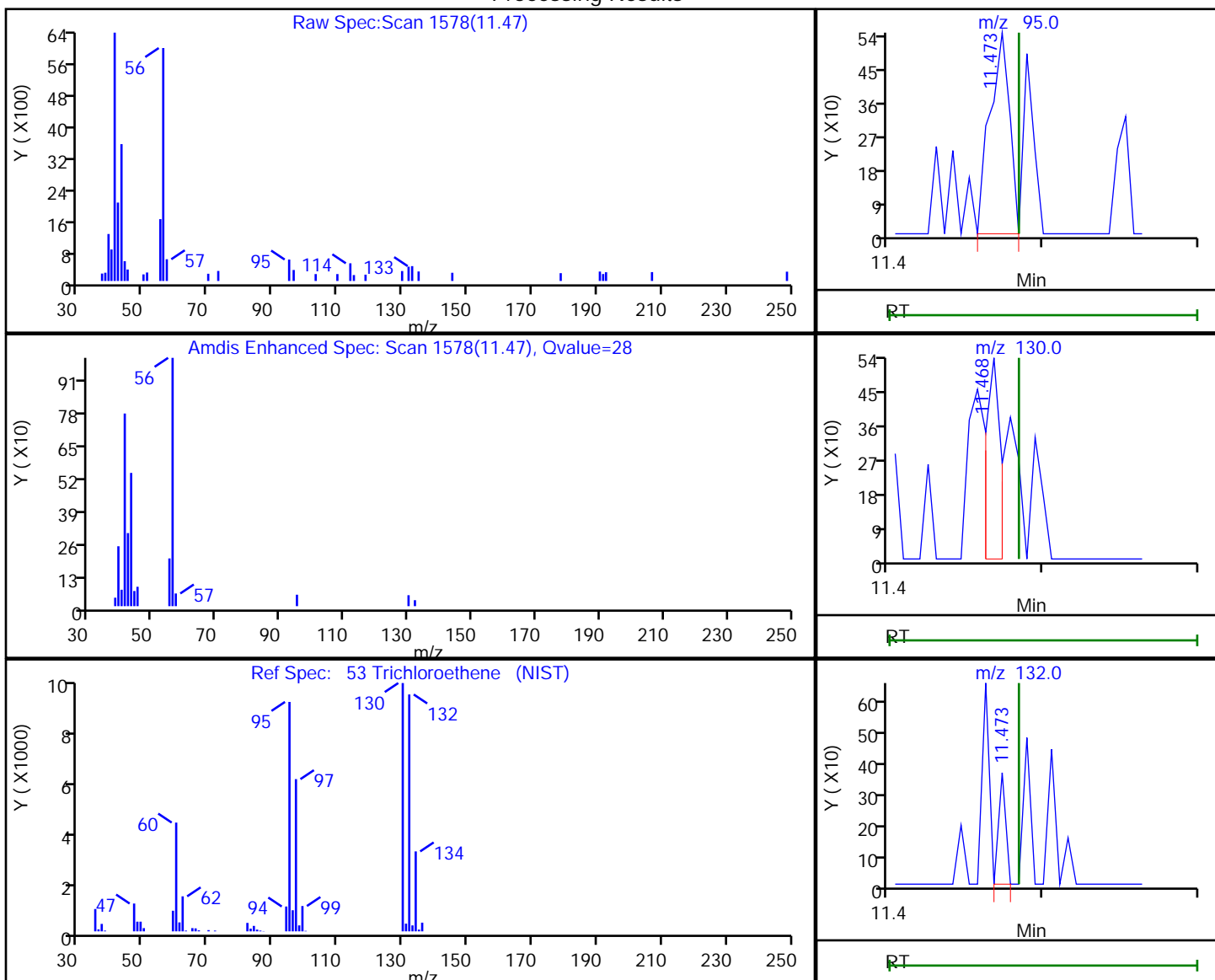
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.47 | 95.00  | 483      | 0.004692 |
| 11.47 | 130.00 | 359      |          |
| 11.47 | 132.00 | 117      |          |

Reviewer: bunmaa, 07-Dec-2018 09:03:40  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

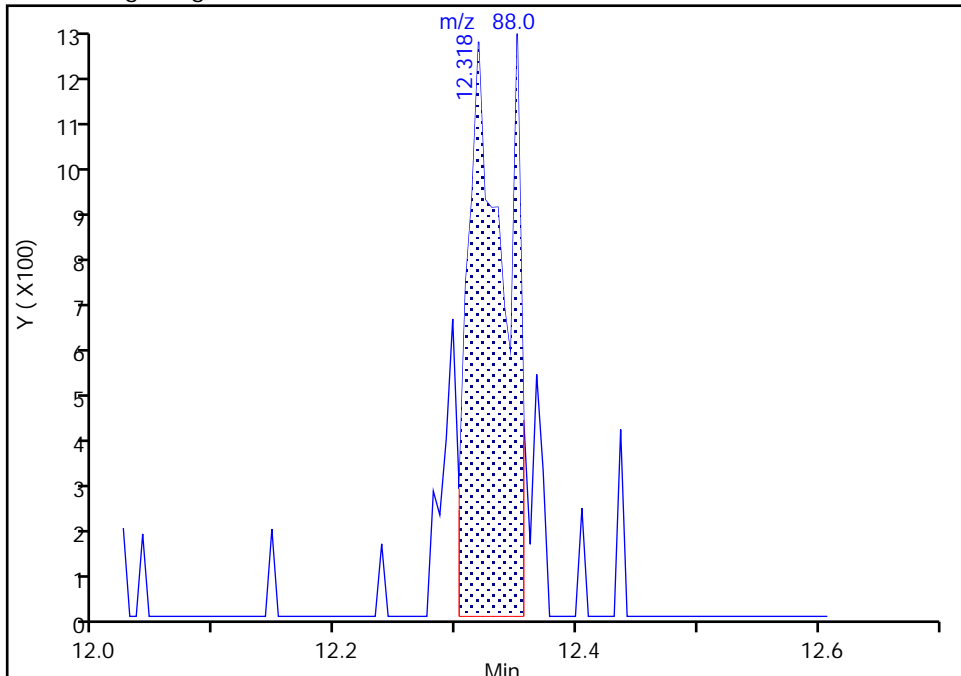
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

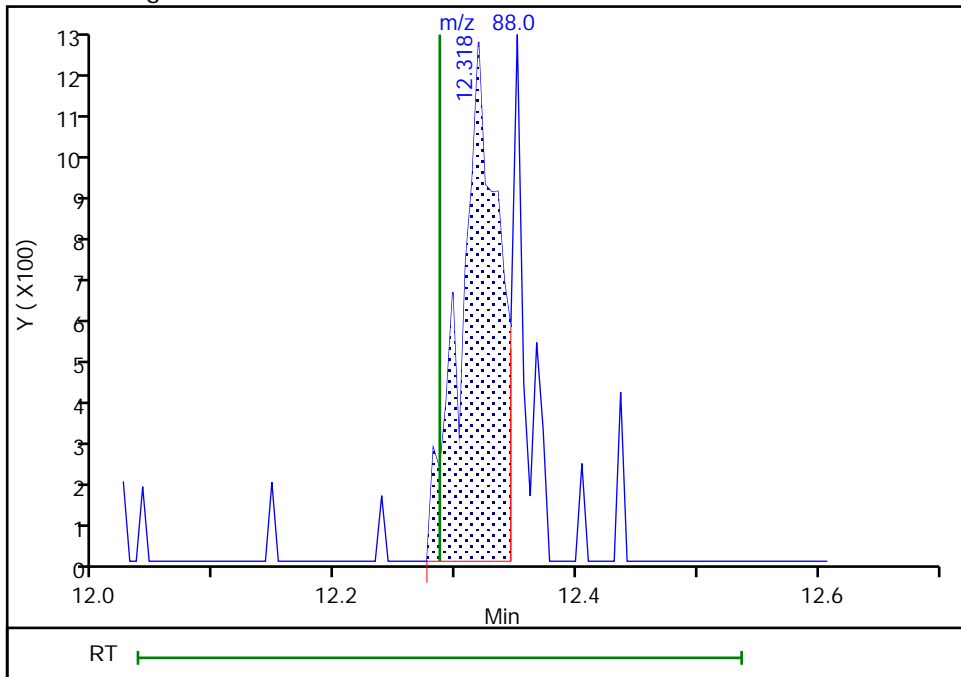
RT: 12.32  
Area: 2876  
Amount: 0.099466  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.32  
Area: 2821  
Amount: 0.097563  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:04:25  
Audit Action: Manually Integrated

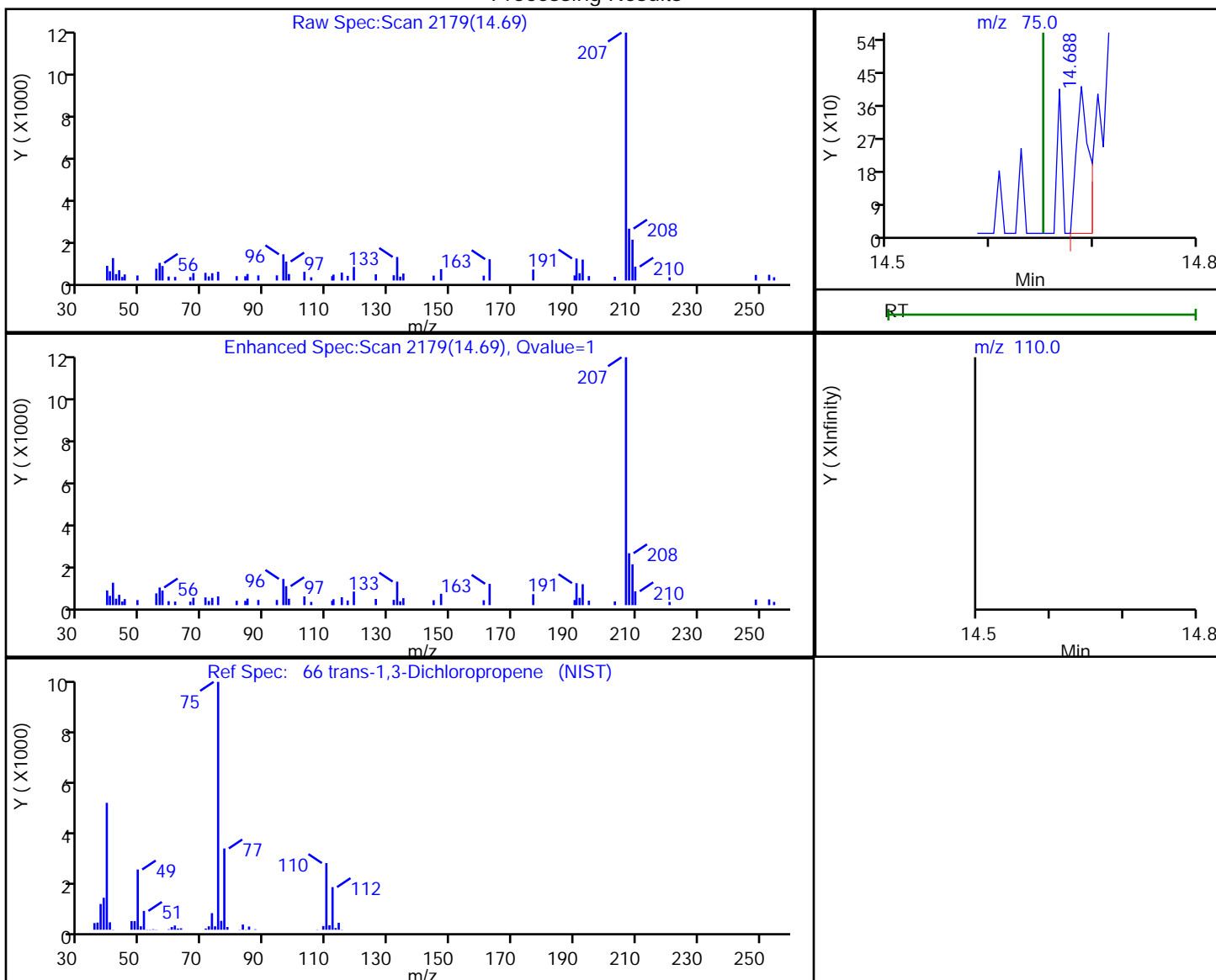
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.69 | 75.00  | 347      | 0.003565 |
| 14.65 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:56:18  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

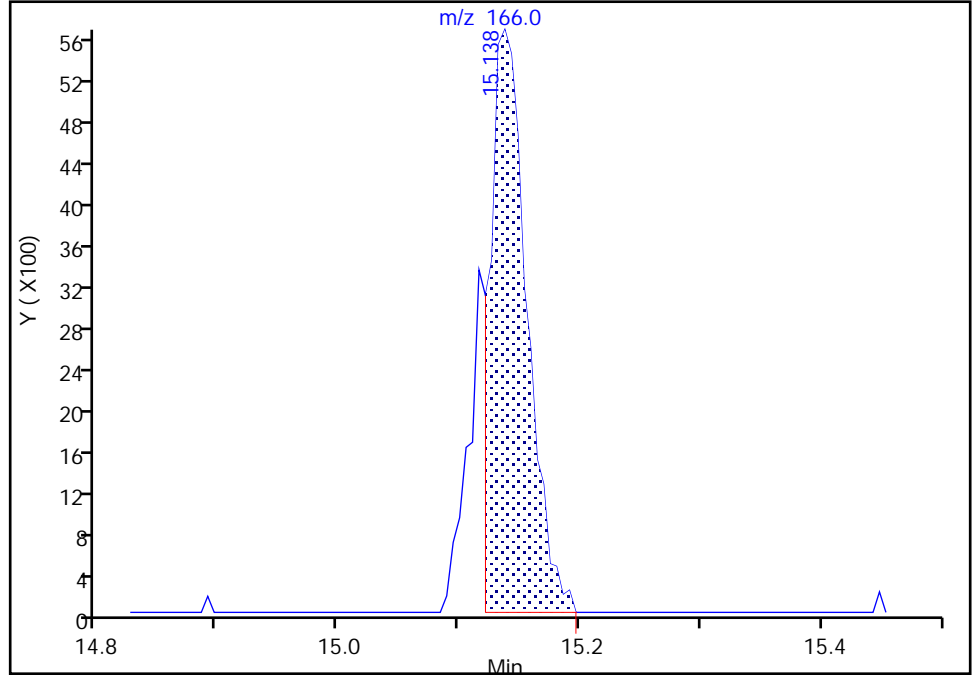
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

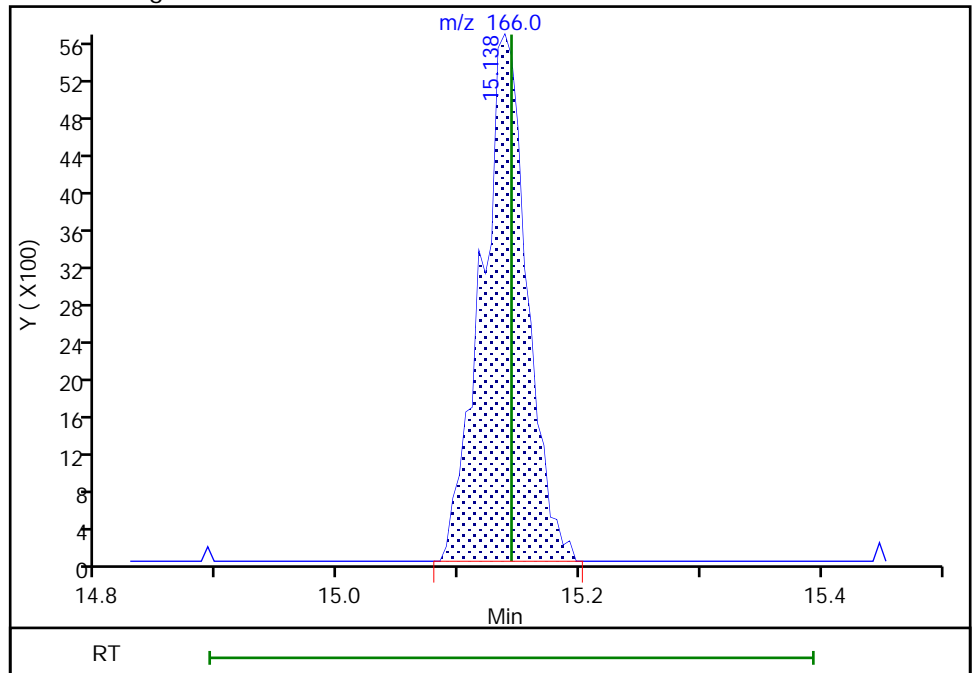
RT: 15.14  
Area: 12024  
Amount: 0.094477  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.14  
Area: 14699  
Amount: 0.115496  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 11:56:26  
Audit Action: Manually Integrated

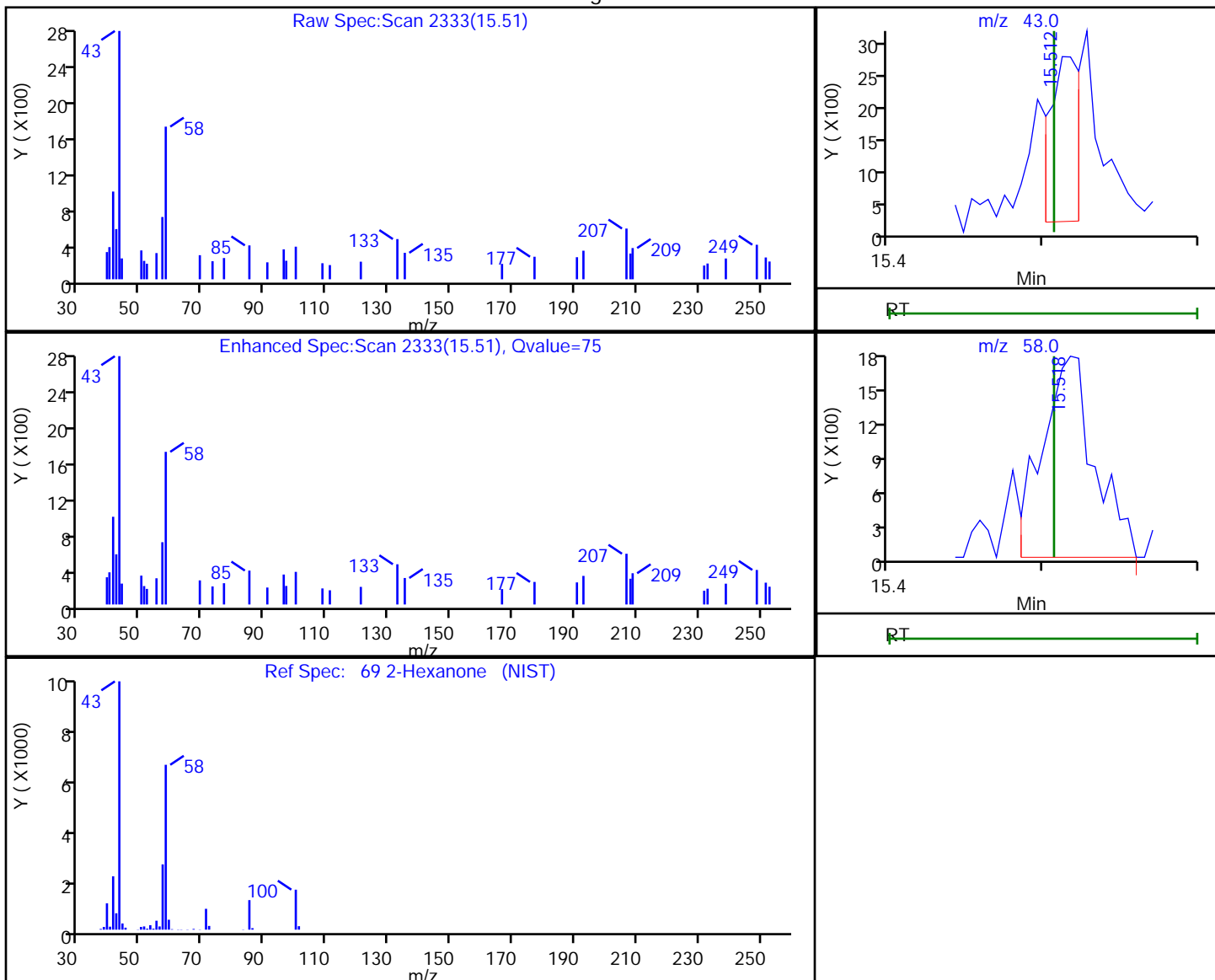
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.51 | 43.00 | 3488     | 0.037337 |
| 15.52 | 58.00 | 4205     |          |

Reviewer: bunmaa, 07-Dec-2018 09:05:11

Audit Action: Marked Compound Undetected

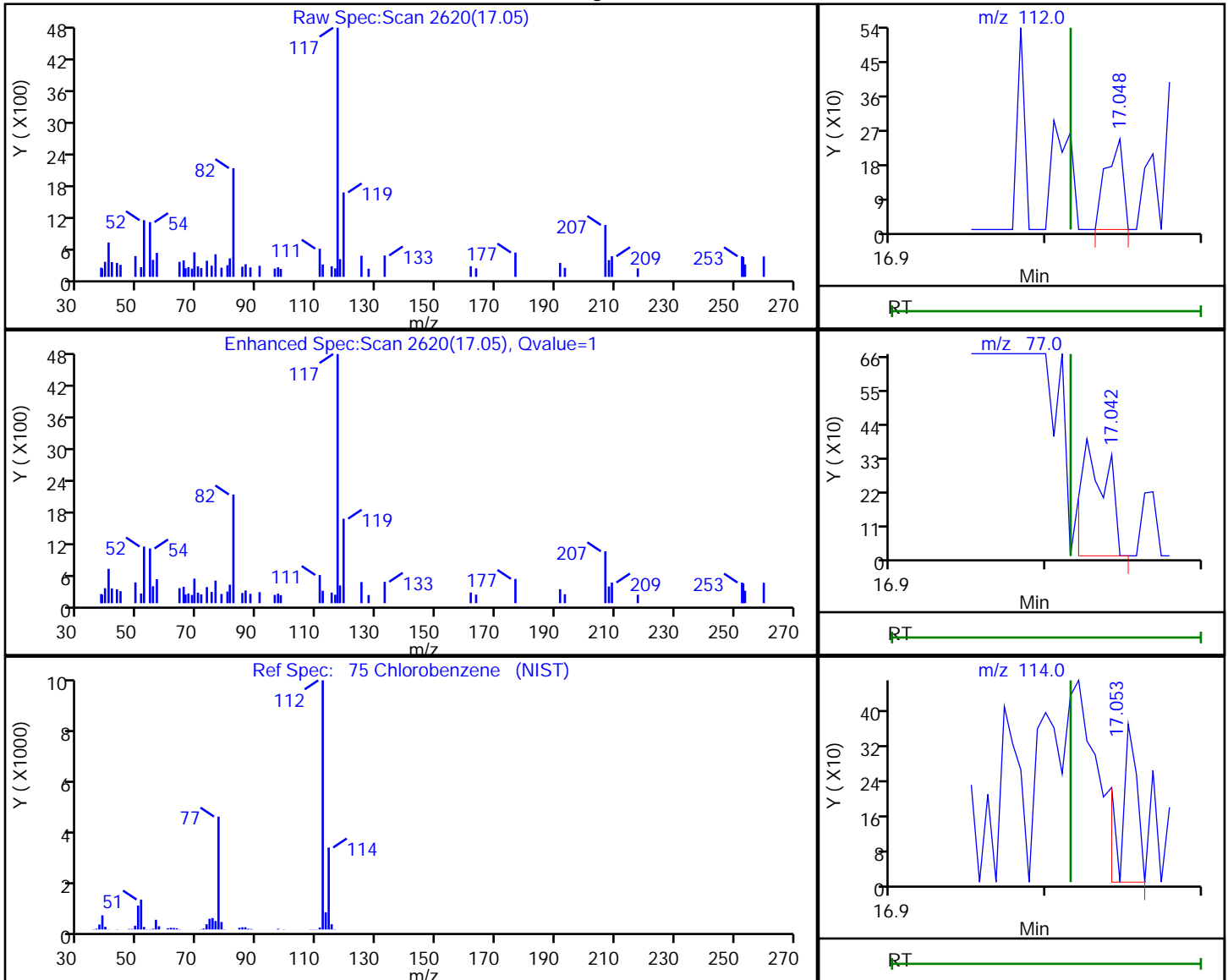
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.05 | 112.00 | 181      | 0.001107 |
| 17.04 | 77.00  | 436      |          |
| 17.05 | 114.00 | 268      |          |

Reviewer: bunmaa, 07-Dec-2018 09:05:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

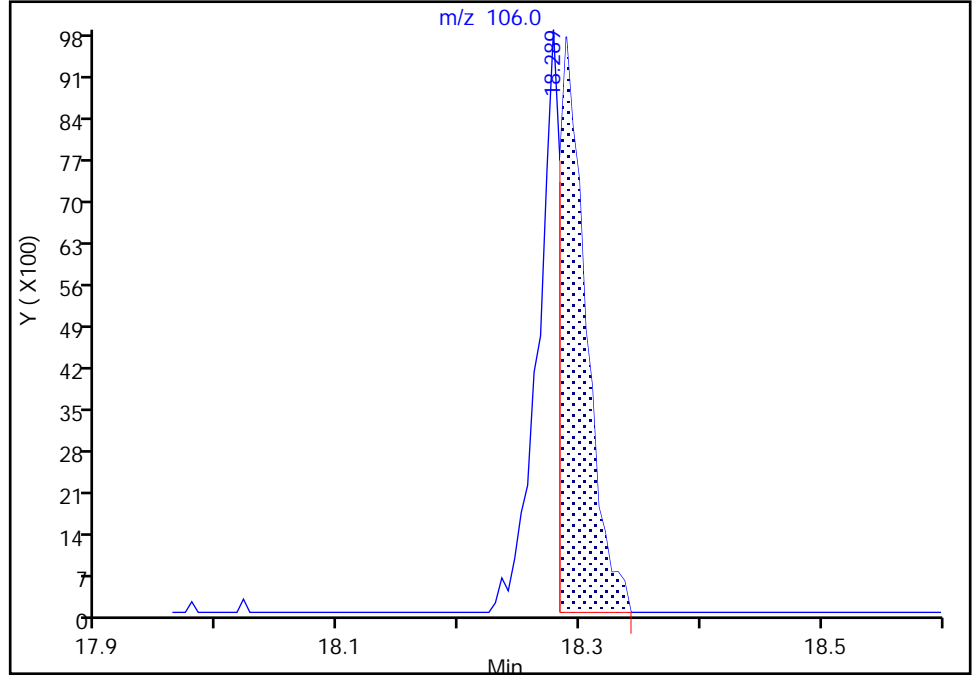
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Signal: 1

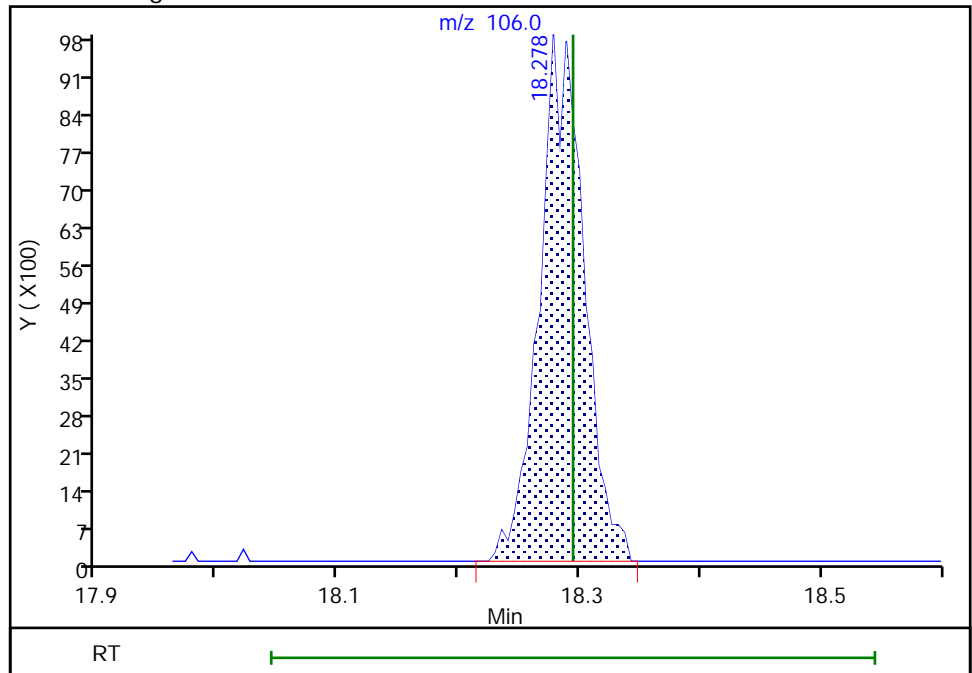
RT: 18.29  
 Area: 14944  
 Amount: 0.162073  
 Amount Units: ppb v/v

Processing Integration Results



RT: 18.28  
 Area: 25188  
 Amount: 0.273172  
 Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

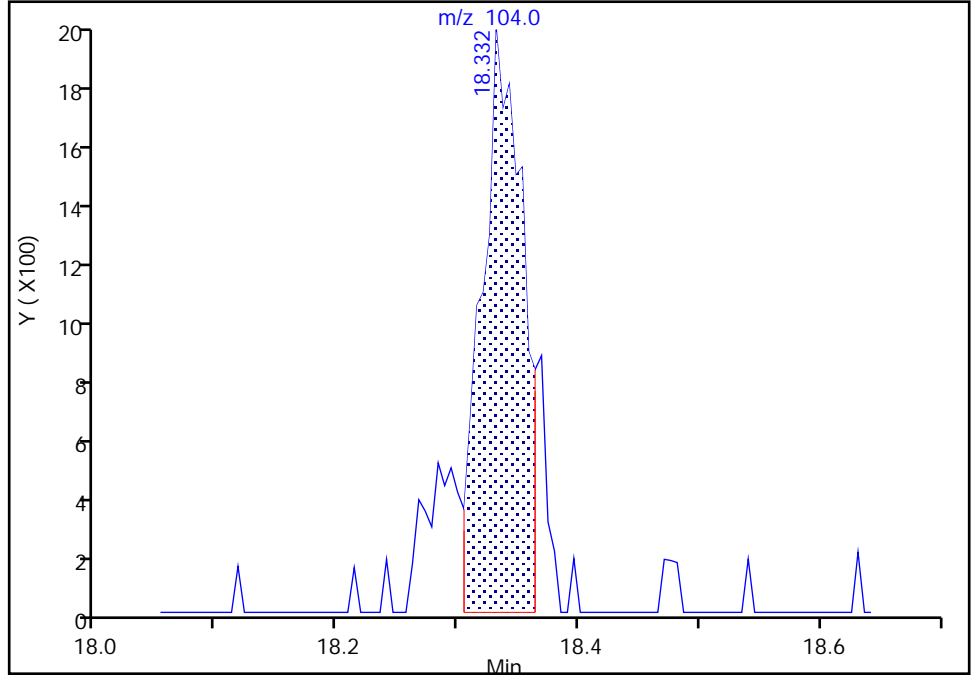
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Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Signal: 1

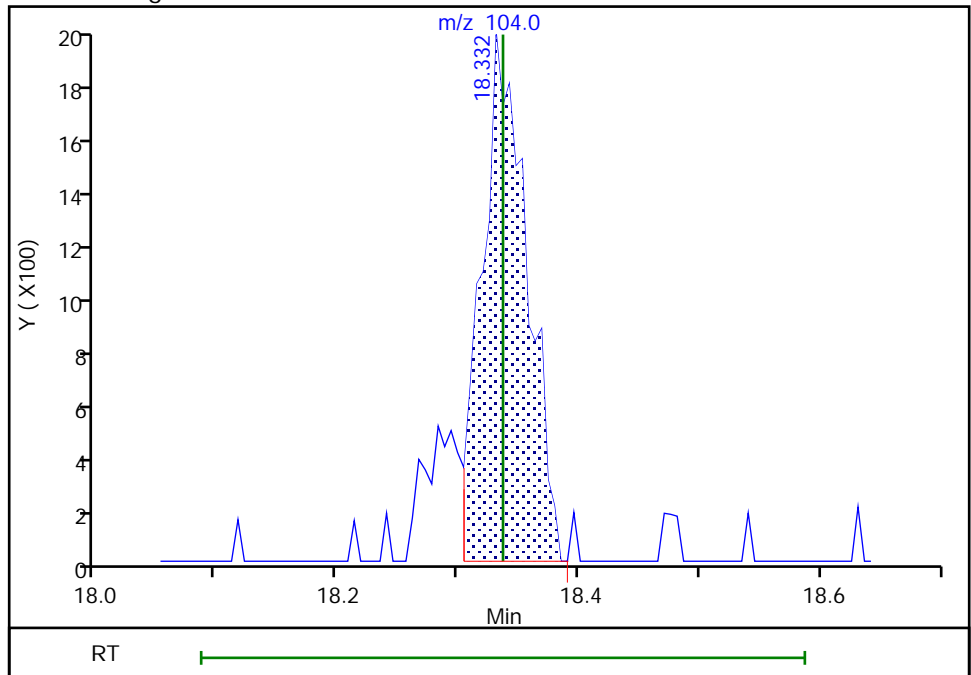
RT: 18.33  
Area: 4683  
Amount: 0.033178  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.33  
Area: 5128  
Amount: 0.036330  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

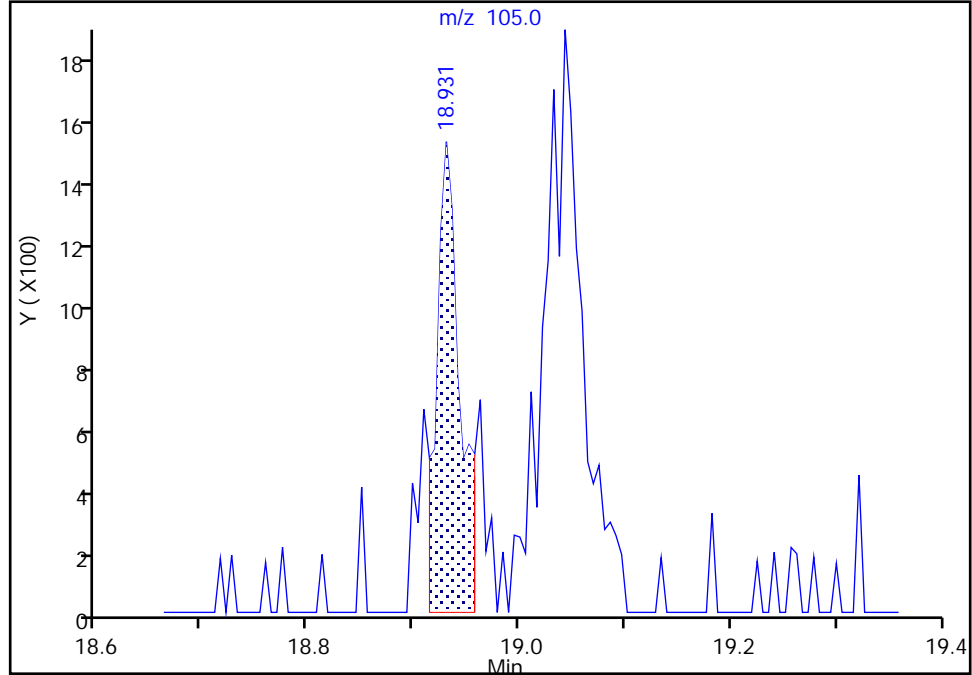
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Signal: 1

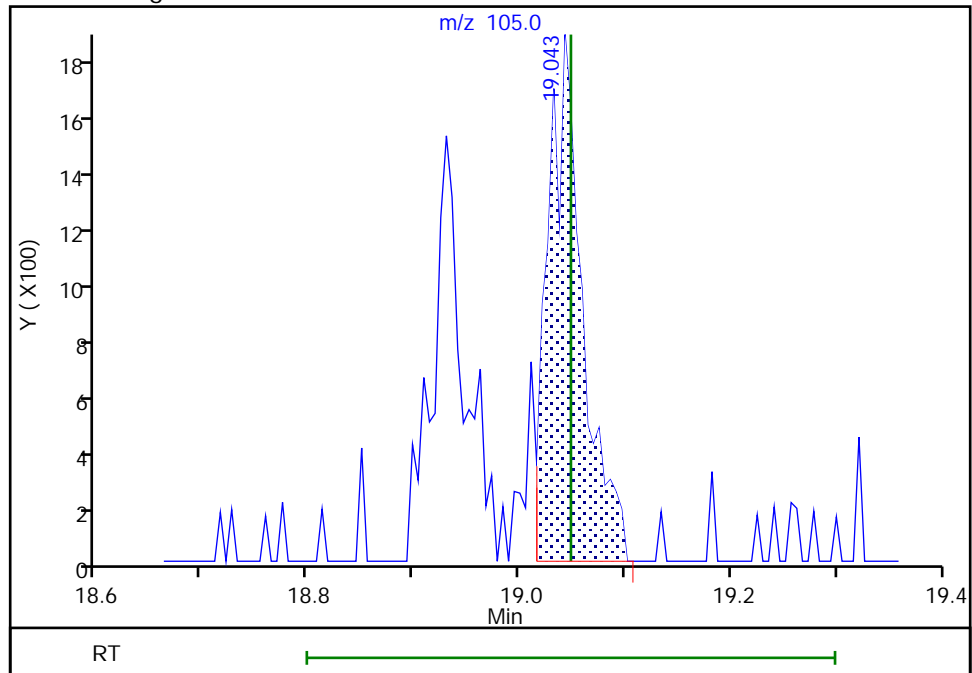
RT: 18.93  
Area: 2316  
Amount: 0.008590  
Amount Units: ppb v/v

Processing Integration Results



RT: 19.04  
Area: 4162  
Amount: 0.015437  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:05:53  
Audit Action: Manually Integrated

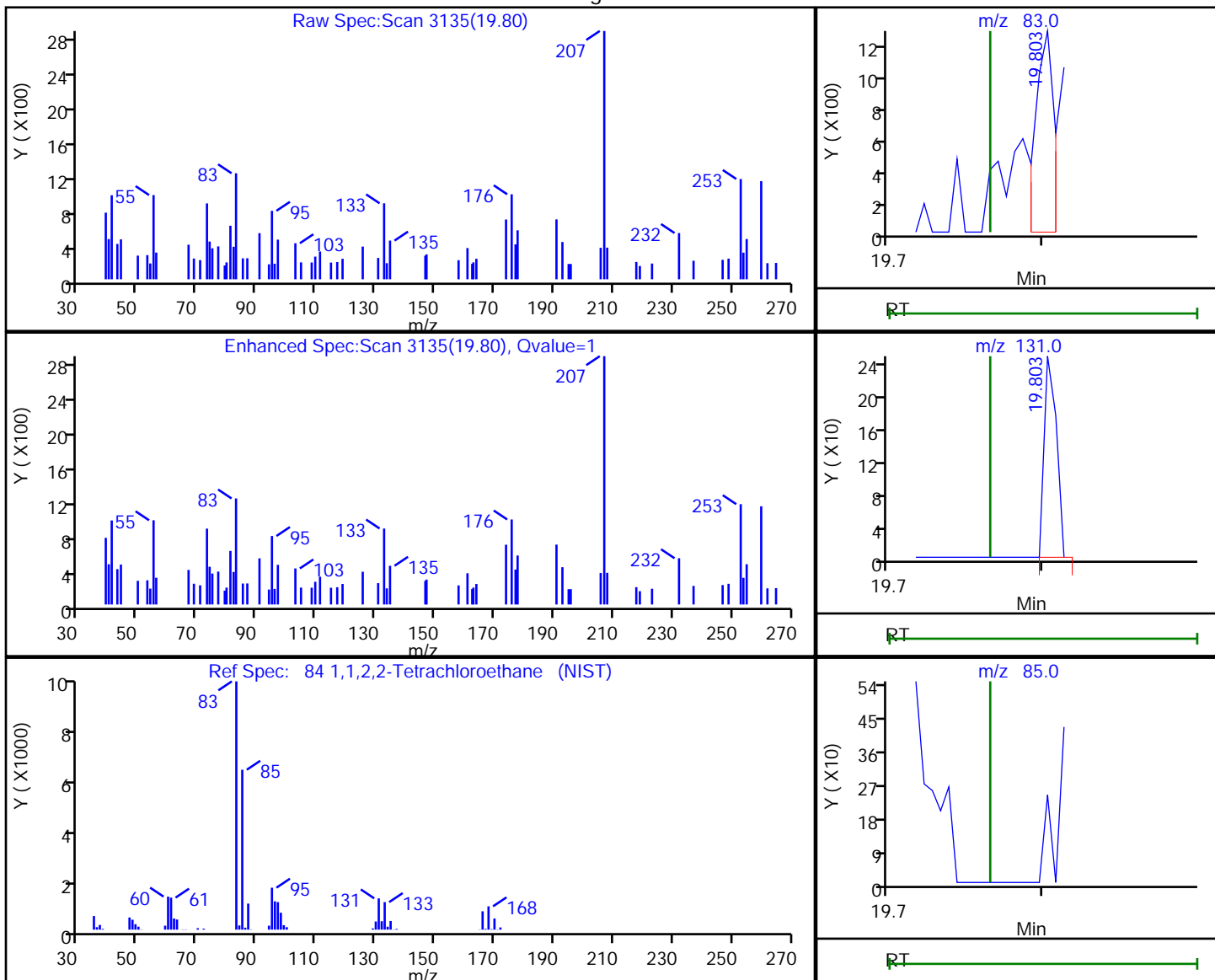
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.80 | 83.00  | 1013     | 0.006886 |
| 19.80 | 131.00 | 133      |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:01  
 Audit Action: Marked Compound Undetected

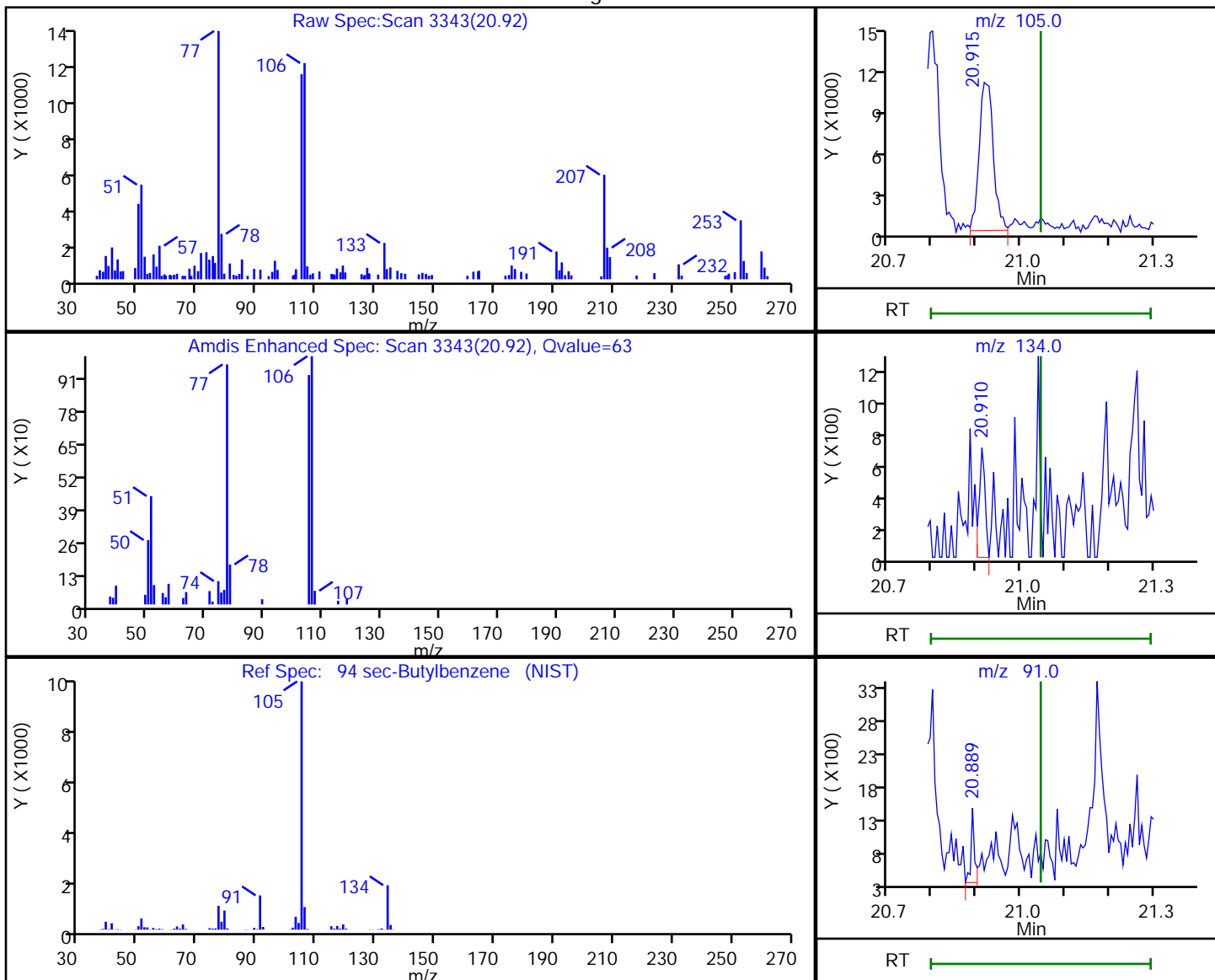
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 23892    | 0.073665 |
| 20.91 | 134.00 | 652      |          |
| 20.89 | 91.00  | 624      |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:11  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

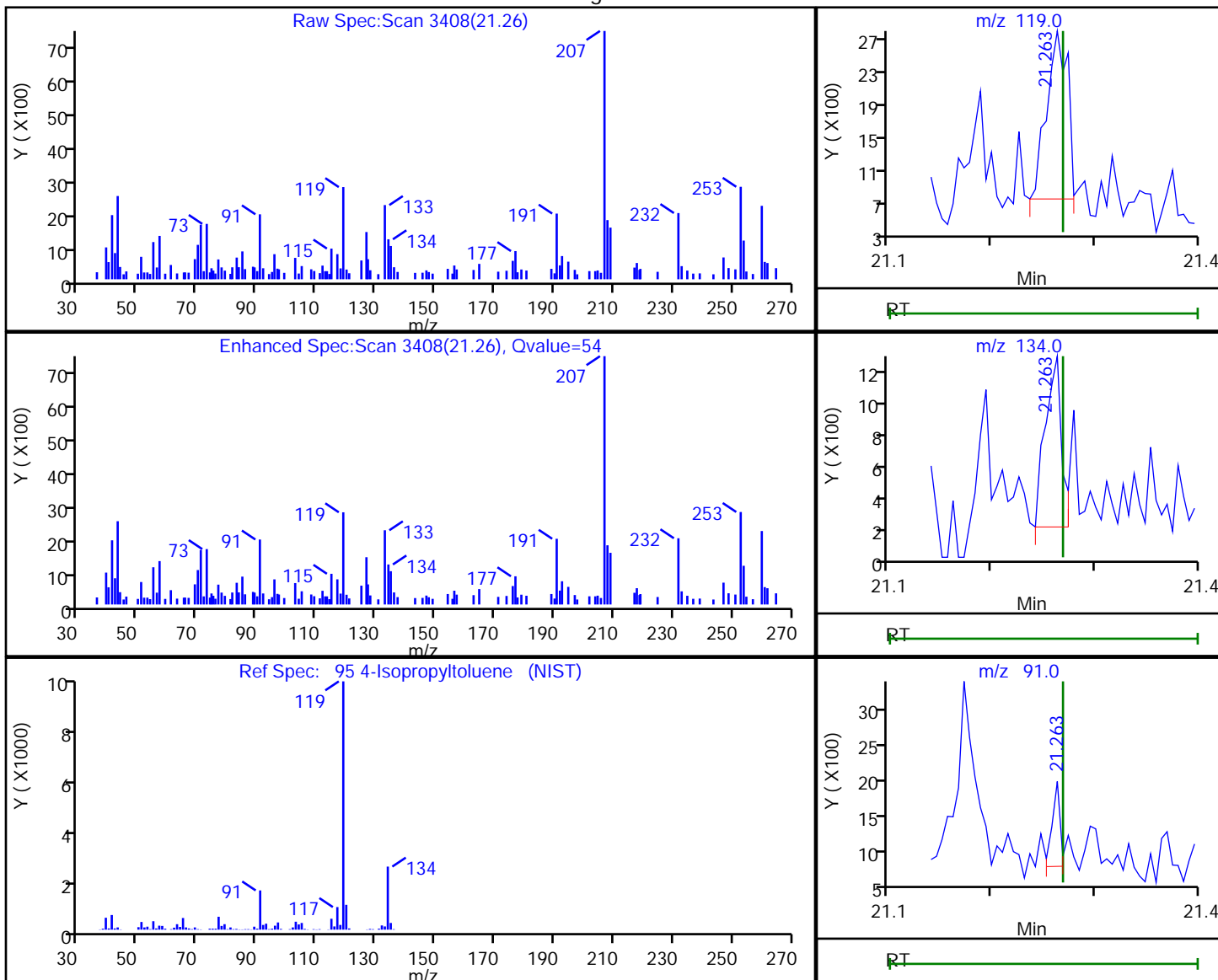


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 119.00 | 2846     | 0.010238 |
| 21.26 | 134.00 | 1132     |          |
| 21.26 | 91.00  | 654      |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:13  
 Audit Action: Marked Compound Undetected

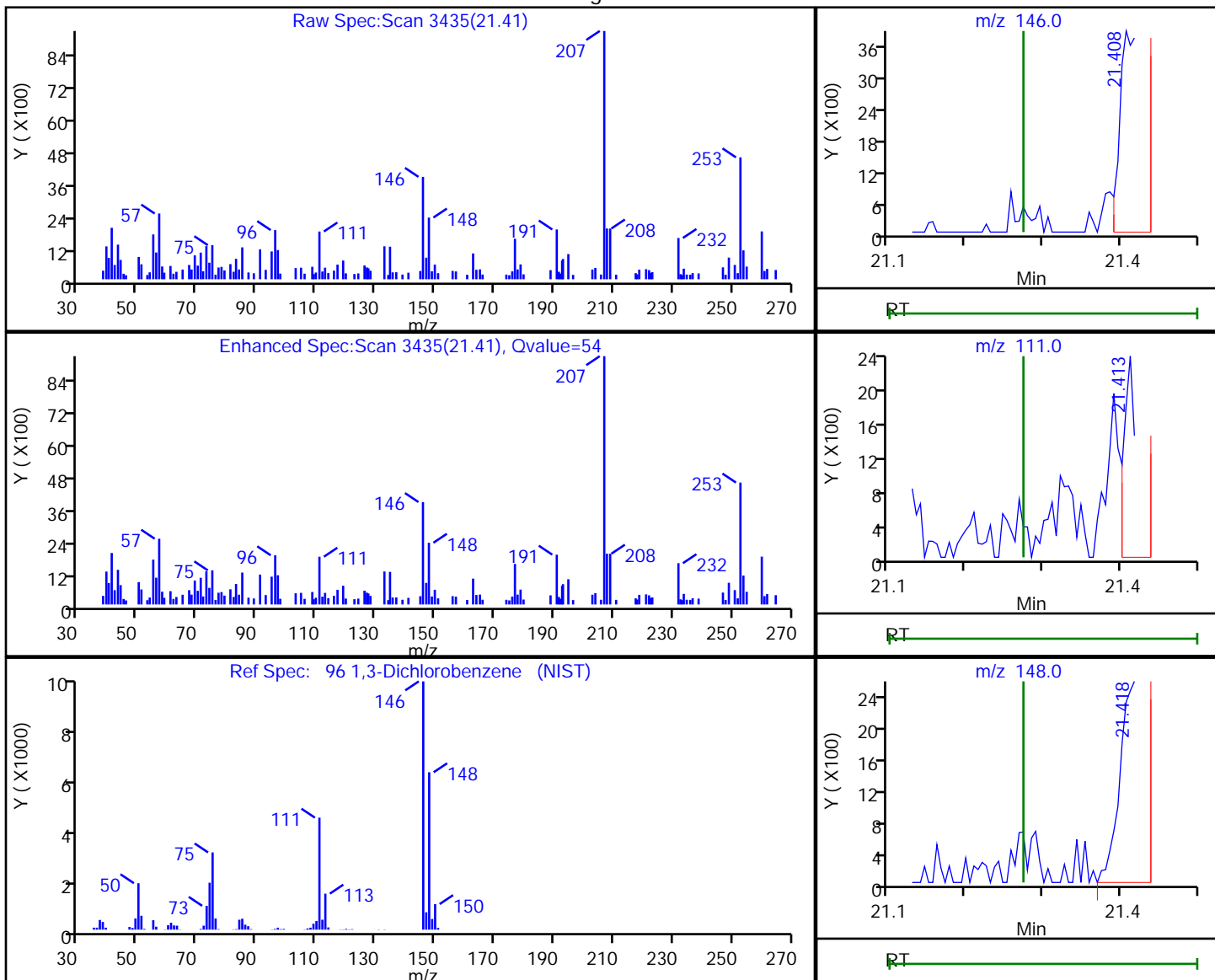
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.41 | 146.00 | 7477     | 0.039990 |
| 21.41 | 111.00 | 3292     |          |
| 21.42 | 148.00 | 5112     |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:16  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

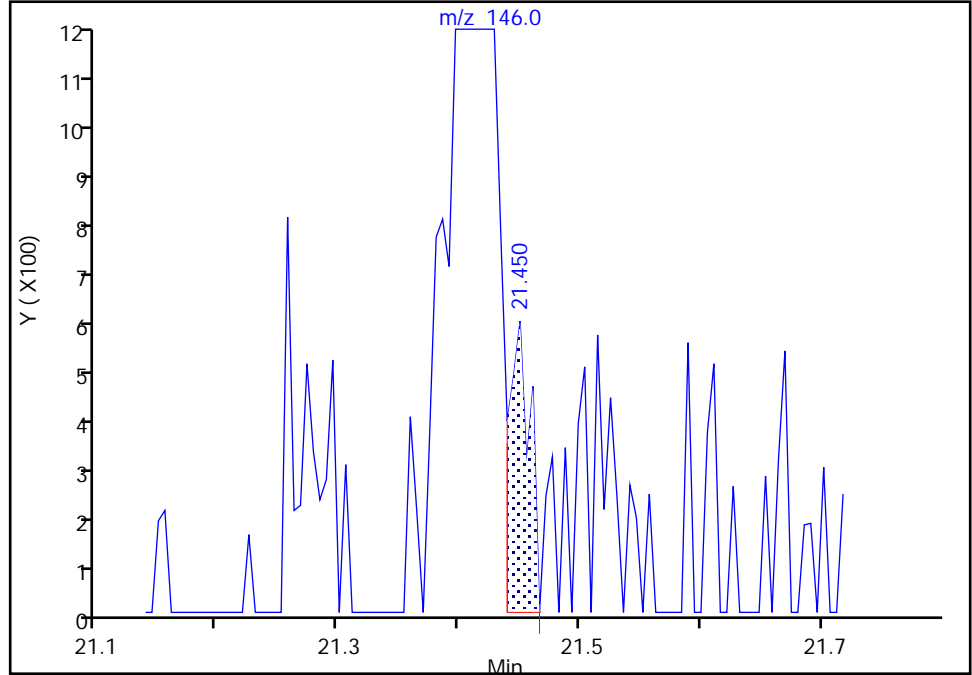
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

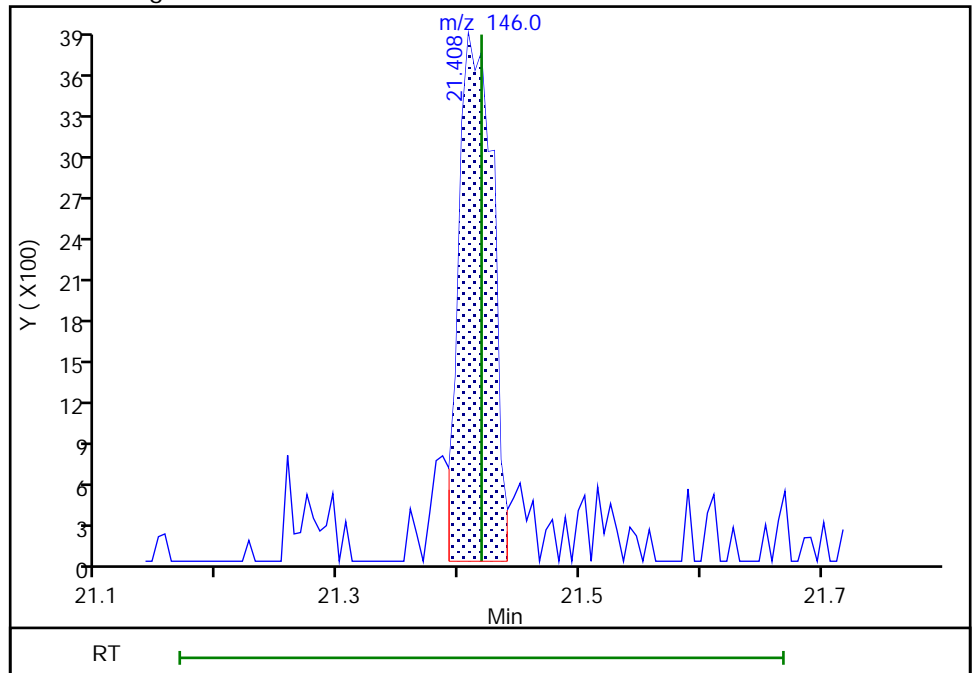
RT: 21.45  
Area: 683  
Amount: 0.003820  
Amount Units: ppb v/v

Processing Integration Results



RT: 21.41  
Area: 7477  
Amount: 0.041819  
Amount Units: ppb v/v

Manual Integration Results

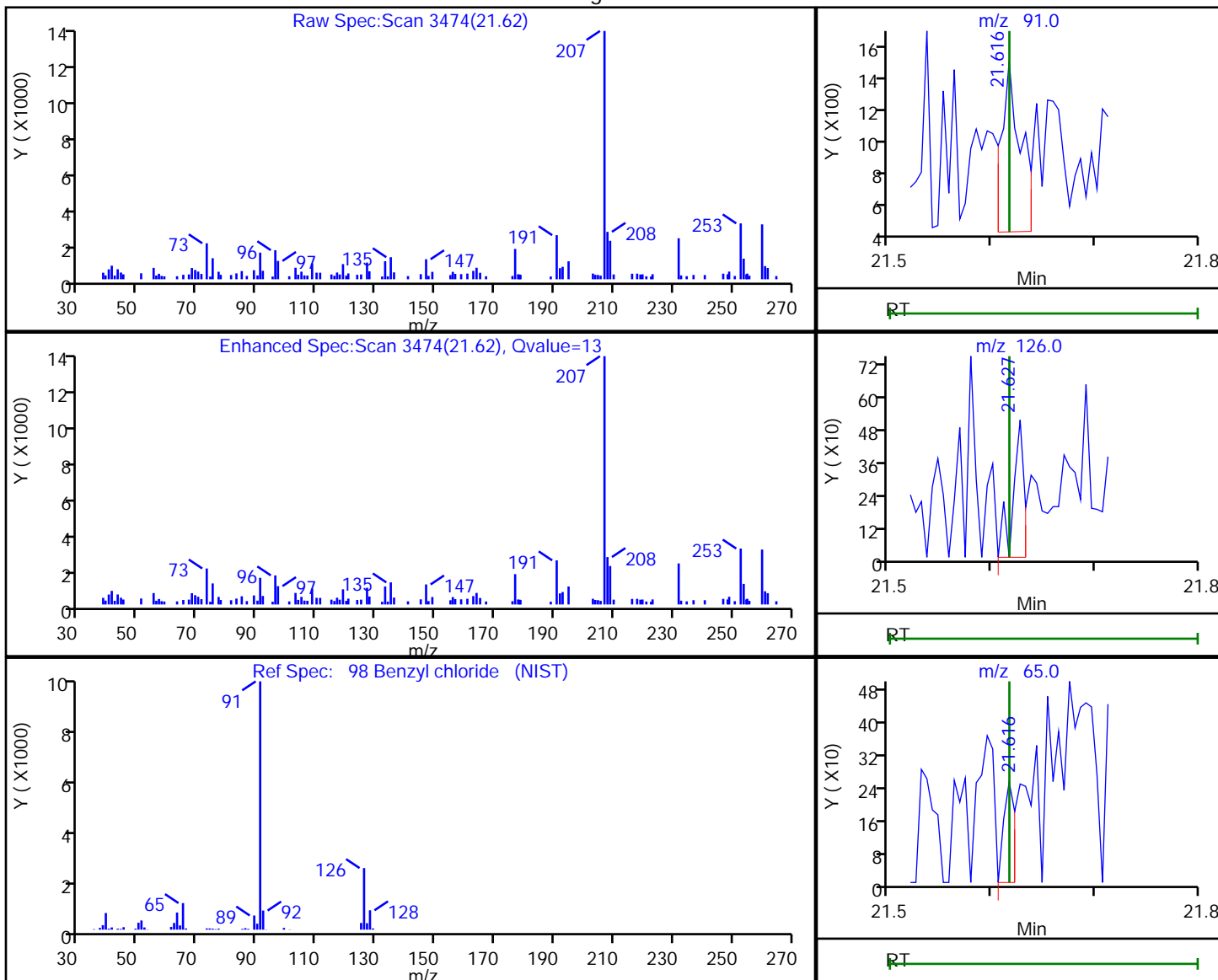


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.62 | 91.00  | 1315     | 0.005958 |
| 21.63 | 126.00 | 383      |          |
| 21.62 | 65.00  | 186      |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:19  
Audit Action: Marked Compound Undetected

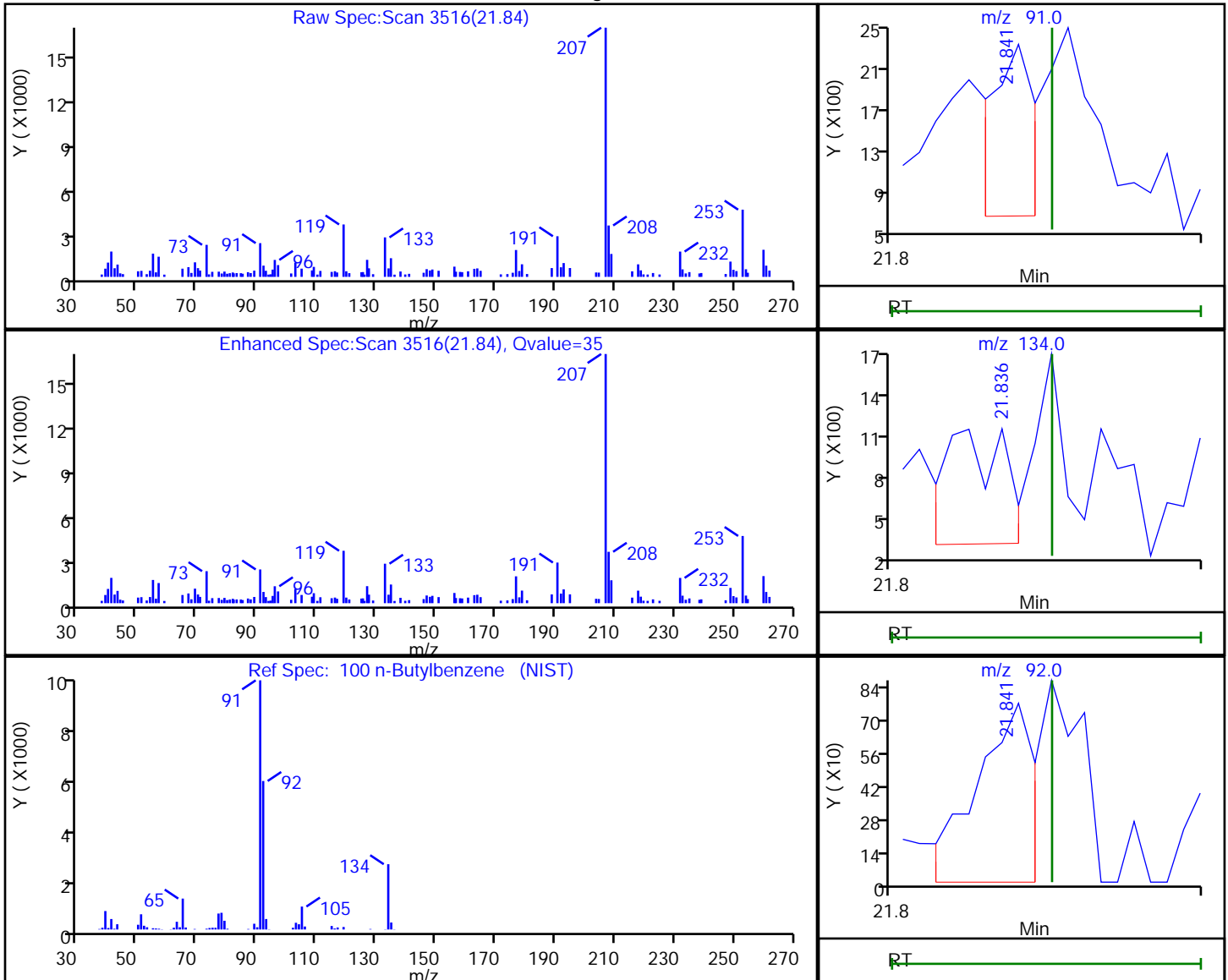
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.84 | 91.00  | 1580     | 0.006235 |
| 21.84 | 134.00 | 1123     |          |
| 21.84 | 92.00  | 1011     |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:20  
 Audit Action: Marked Compound Undetected

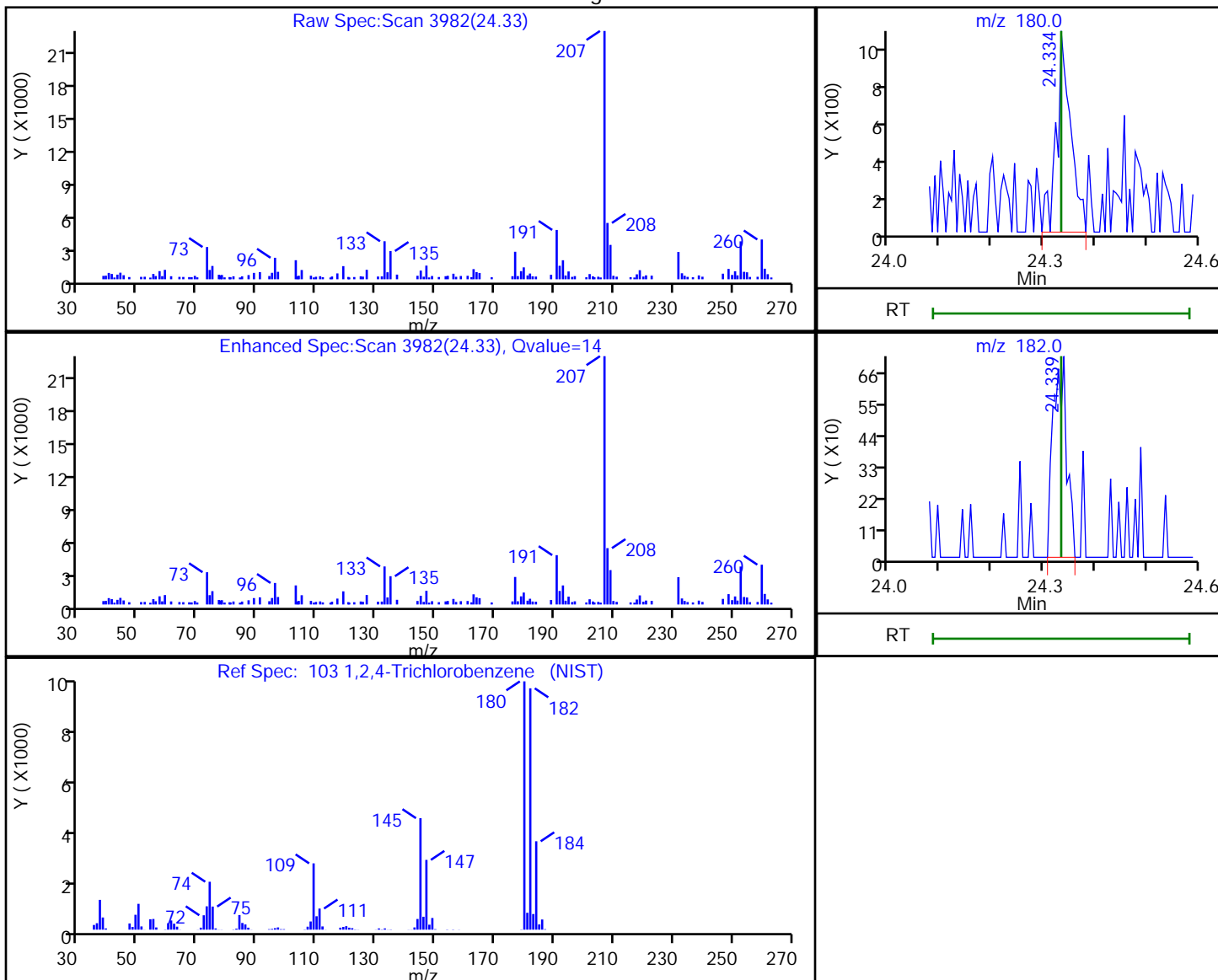
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
 Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
 Client ID: IA-3\_20181120  
 Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 2059     | 0.015942 |
| 24.34 | 182.00 | 1300     |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:22

Audit Action: Marked Compound Undetected

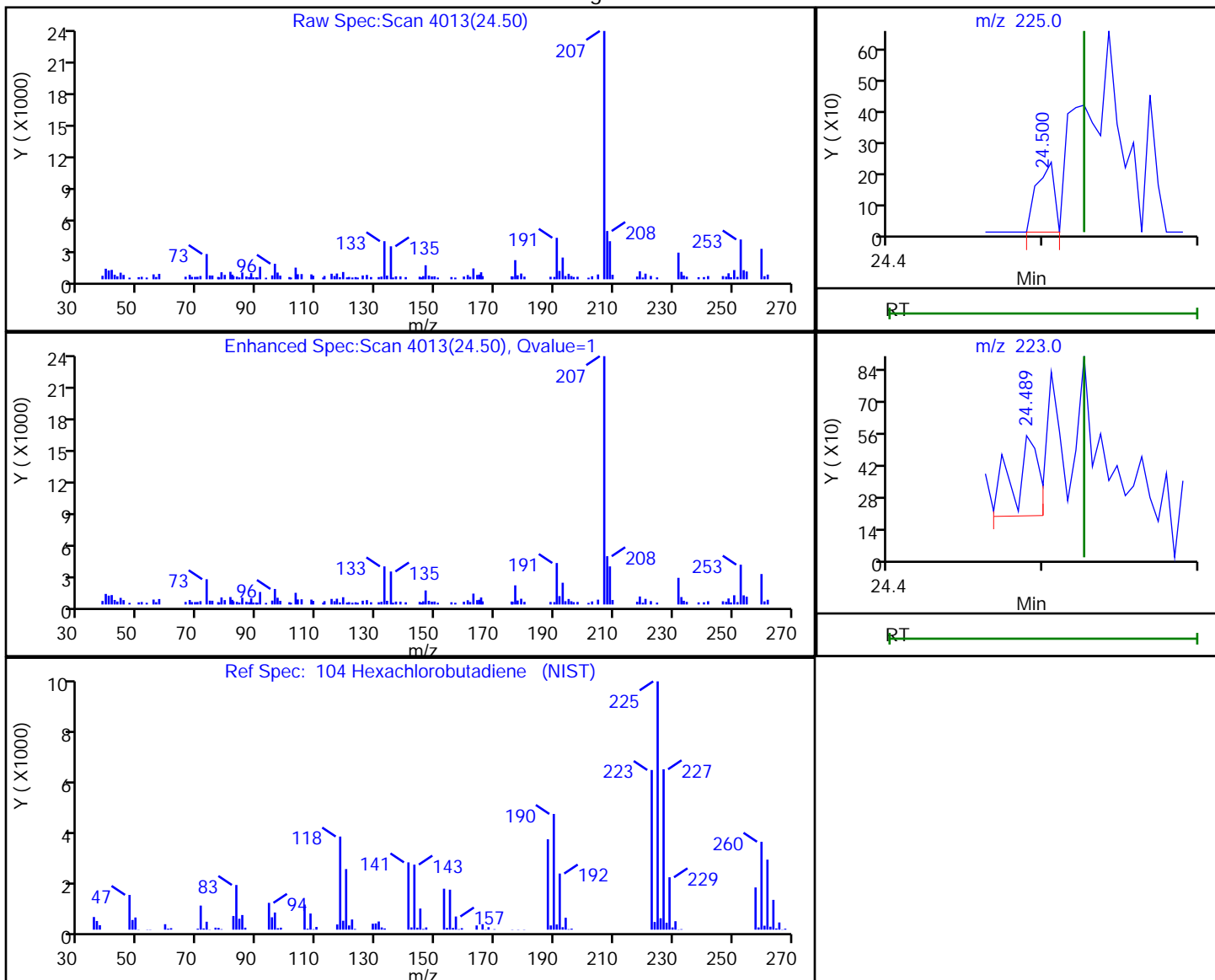
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-020.D  
Injection Date: 06-Dec-2018 06:01:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-4 Lab Sample ID: 200-46353-4  
Client ID: IA-3\_20181120  
Operator ID: ert ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.50 | 225.00 | 179      | 0.001393 |
| 24.49 | 223.00 | 401      |          |

Reviewer: guazzonig, 06-Dec-2018 11:57:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 5.5    |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 4.0    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 11     |   | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.77   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.4    |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.28   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.046  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   |   | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.30   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 0.21   |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 0.92   |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 11     |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 9.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 26     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 2.7    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 4.0    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.95   |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.29   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.97   |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.87   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.5    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Lims ID: 200-46353-A-5  
 Client ID: IA-4\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 06:51:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-021  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:13:56 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: guazzonig

Date: 06-Dec-2018 13:34:44

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011        | 99  | 109811   | 0.5088            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.179         | -0.005        | 95  | 36289    | 0.3950            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |               |     |          | ND                | MU    |
| 5 Chloromethane               | 50  | 3.454     | 3.463         | -0.011        | 98  | 232586   | 5.54              |       |
| 6 Butane                      | 43  | 3.604     | 3.598         | 0.000         | 98  | 228063   | 4.03              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |               |     |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.711         |               |     |          | ND                | MU    |
| 10 Bromomethane               | 94  | 4.208     | 4.206         | 0.000         | 13  | 2061     | 0.0353            |       |
| 11 Chloroethane               | 64  |           | 4.380         |               |     |          | ND                | MU    |
| 13 Vinyl bromide              | 106 |           | 4.695         |               |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.754         | -0.001        | 99  | 37035    | 0.2171            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599     | 5.599         | -0.006        | 92  | 6919     | 0.0576            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |               |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.851     | 5.853         | -0.005        | 99  | 487976   | 10.8              |       |
| 23 Carbon disulfide           | 76  | 6.001     | 6.001         | -0.016        | 93  | 7399     | 0.0544            | M     |
| 24 Isopropyl alcohol          | 45  | 6.113     | 6.093         | 0.016         | 99  | 71756    | 1.44              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |               |     |          | ND                | Ua    |
| 27 Methylene Chloride         | 49  | 6.546     | 6.552         | -0.011        | 87  | 10404    | 0.2180            |       |
| 28 2-Methyl-2-propanol        | 59  |           | 6.771         |               |     |          | ND                | U     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |               |     |          | ND                | U     |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |               |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.284     | 7.275         | 0.005         | 88  | 39449    | 0.7724            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |               |     |          | ND                |       |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |               |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.793     | 8.788         | 0.000         | 100 | 21865    | 1.35              |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.152         | 0.000         | 75  | 578523   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  | 9.232     | 9.210         | 0.022         | 77  | 3447     | 0.1358            |       |
| 42 Chloroform                 | 83  | 9.264     | 9.264         | -0.005        | 33  | 5179     | 0.0429            | M     |
| 43 Cyclohexane                | 84  | 9.505     | 9.515         | -0.026        | 92  | 14098    | 0.2760            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |               |     |          | ND                |       |
| 45 Carbon tetrachloride       | 117 | 9.783     | 9.778         | 0.000         | 72  | 6058     | 0.0458            |       |
| 46 Isooctane                  | 57  | 10.189    | 10.190        | -0.006        | 90  | 33766    | 0.1998            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.216        | -0.005        | 95 | 36110    | 0.3047            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.553    | 10.553        | -0.022        | 91 | 12872    | 0.2111            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2225579  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | MU    |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                |       |
| 65 Toluene                     | 92  | 14.057    | 14.068        | -0.011        | 95 | 84316    | 0.9207            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.143        | -0.005        | 92 | 12688    | 0.1157            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 85 | 2260849  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.181    | 17.187        | -0.001        | 97 | 17510    | 0.0849            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.433    | 17.438        | 0.000         | 0  | 15793    | 0.1889            |       |
| 79 o-Xylene                    | 106 | 18.283    | 18.294        | -0.011        | 97 | 4332     | 0.0545            |       |
| 80 Styrene                     | 104 |           | 18.337        |               |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.049        |               |    |          | ND                | U     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.846        |               |    |          | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.054        |               |    |          | ND                | U     |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 20.177        |               |    |          | ND                | U     |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.792    | 20.792        | -0.006        | 36 | 2882     | 0.0145            | M     |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.418        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Worklist Smp#: 21

Client ID: IA-4\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

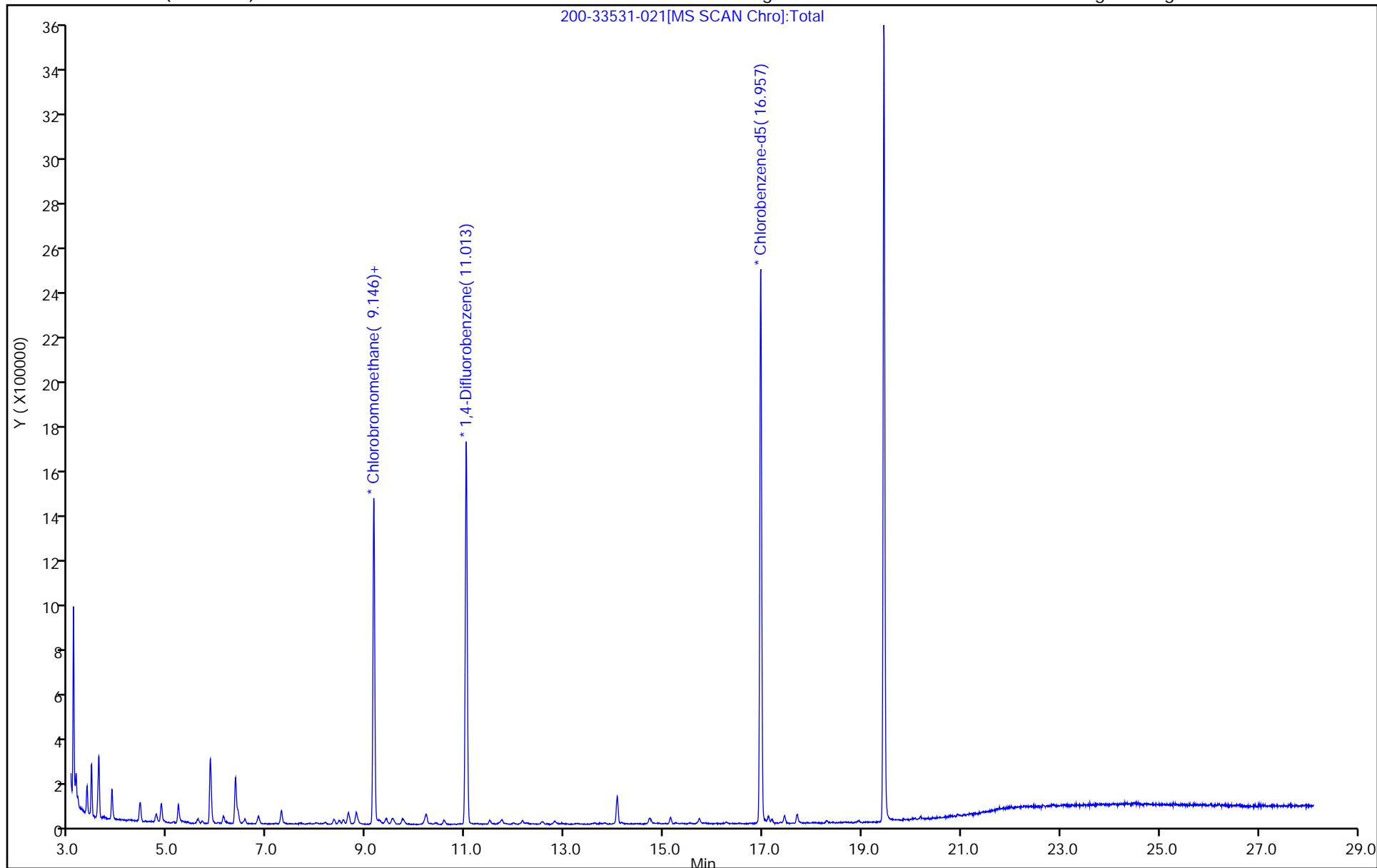
ALS Bottle#: 21

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

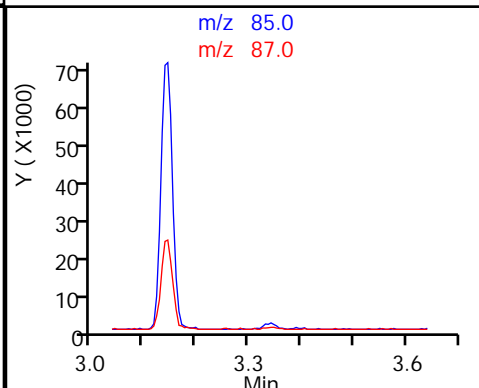
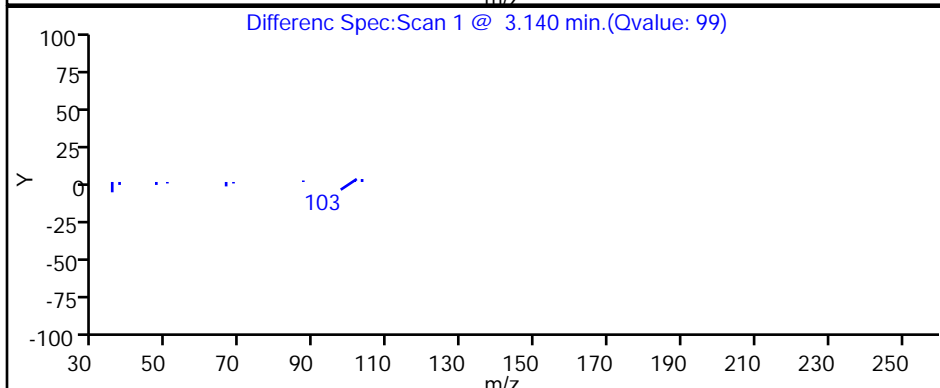
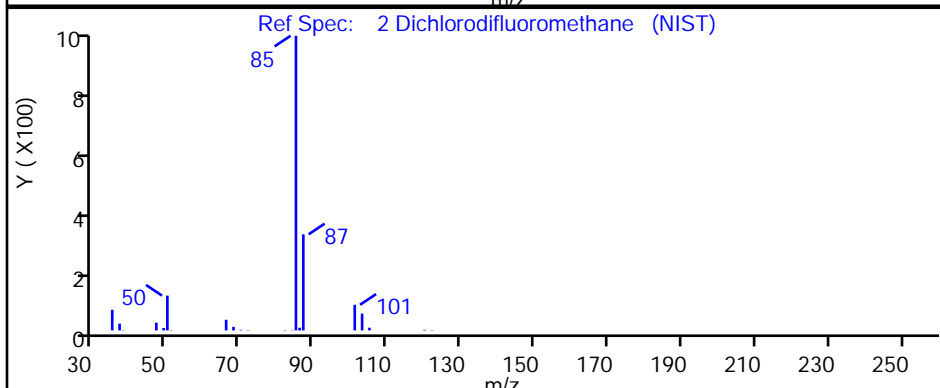
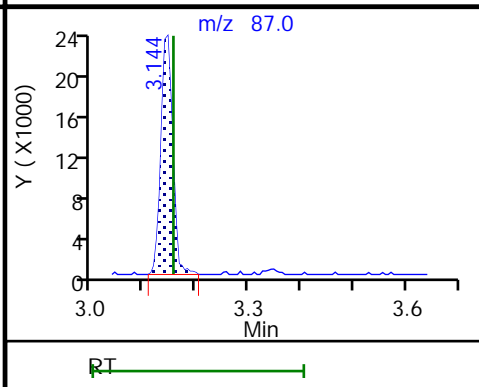
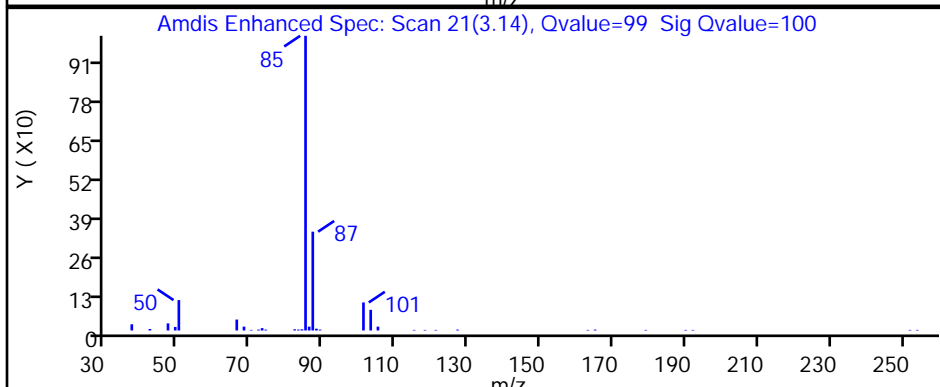
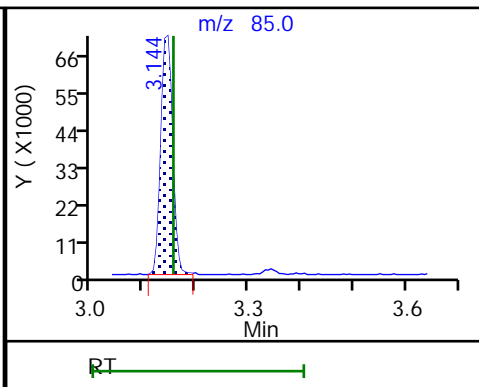
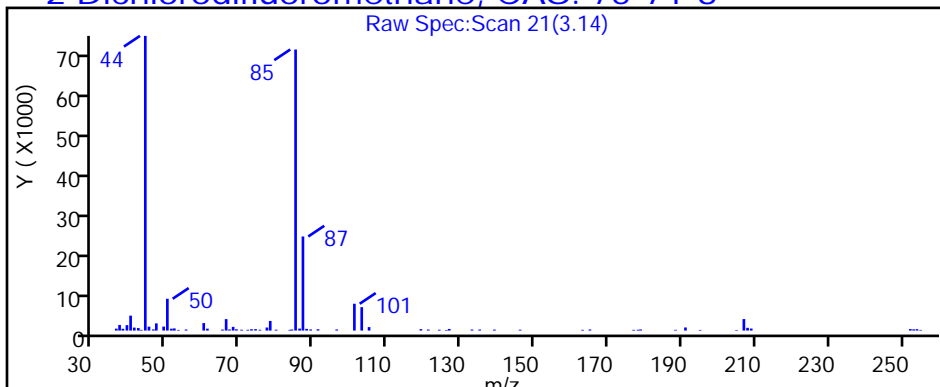
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

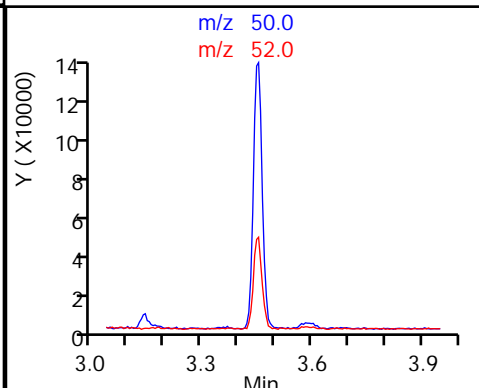
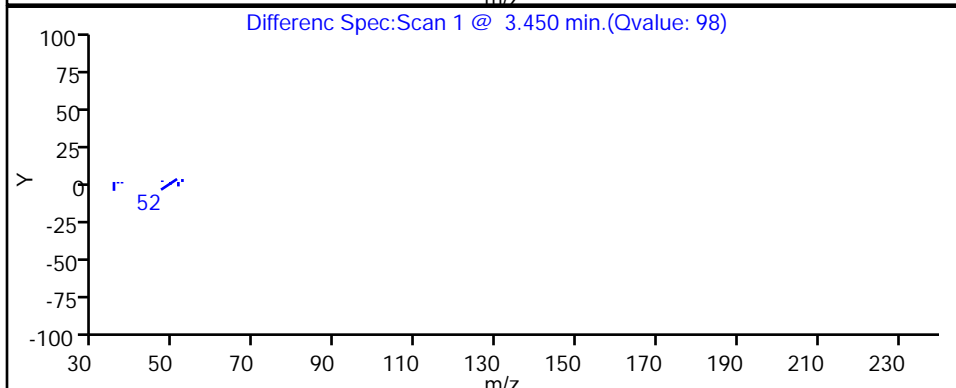
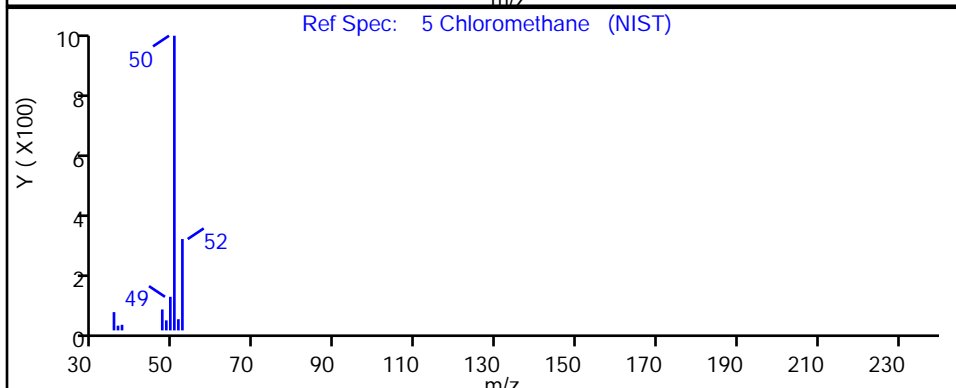
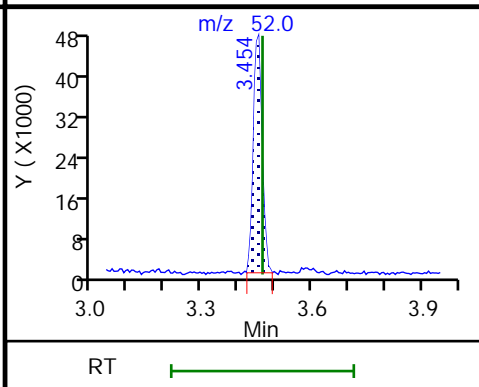
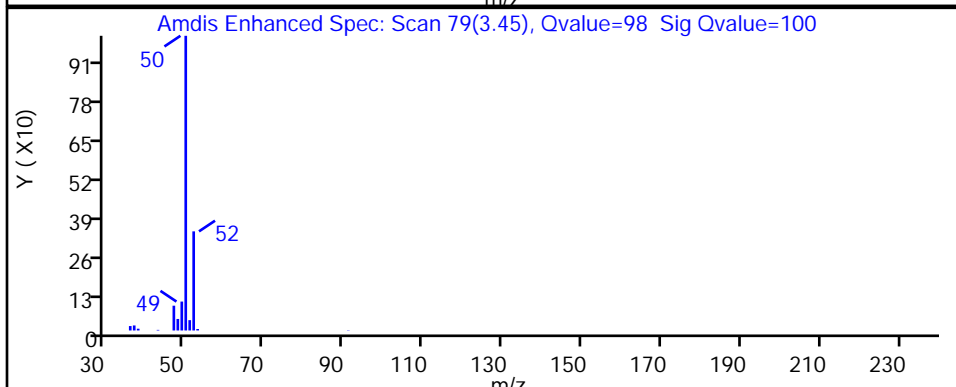
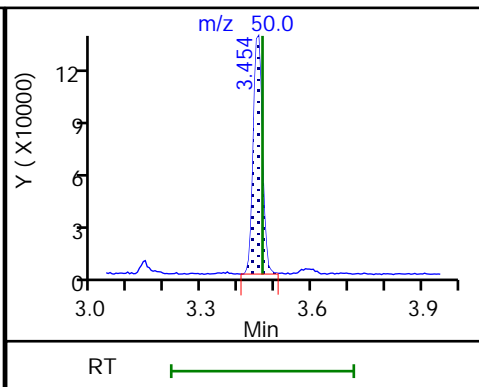
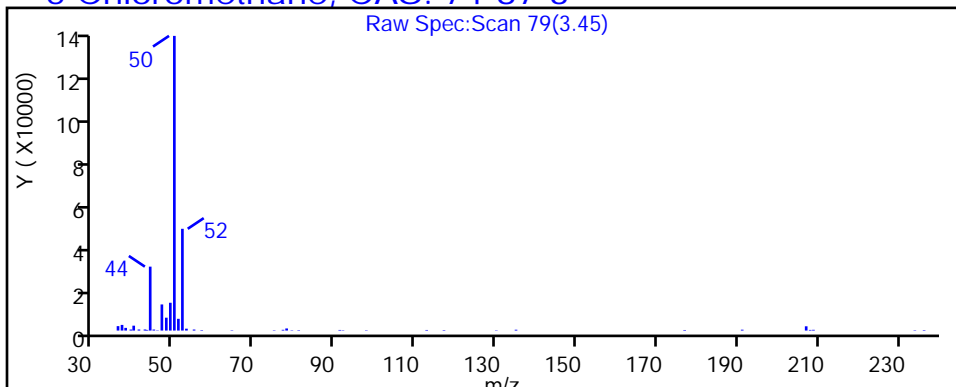
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

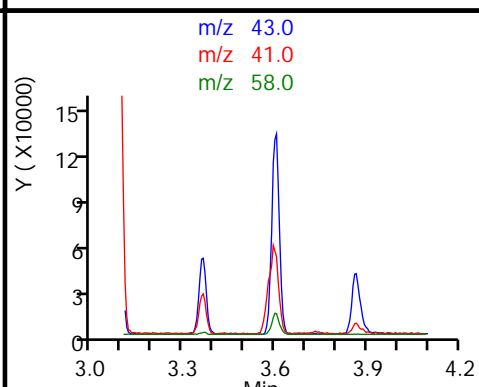
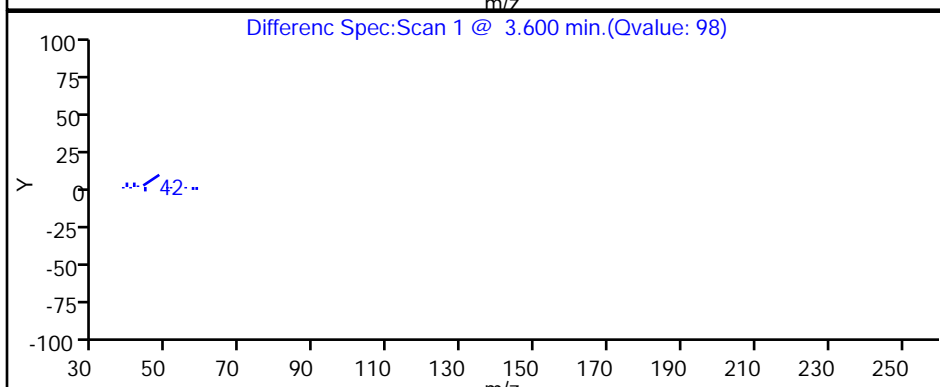
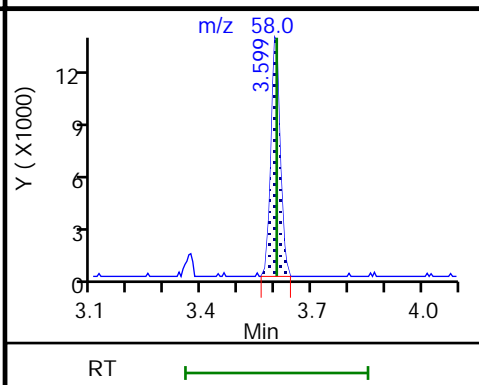
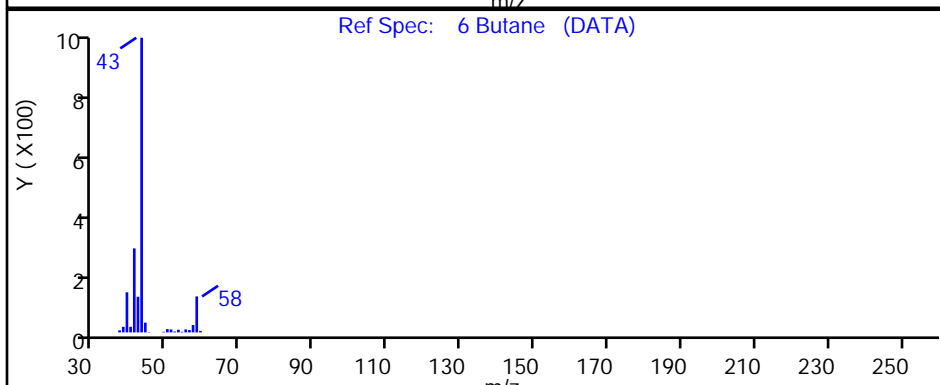
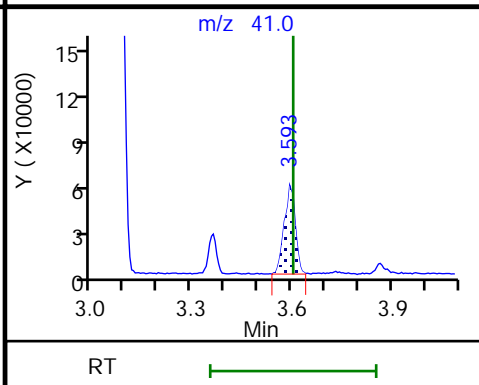
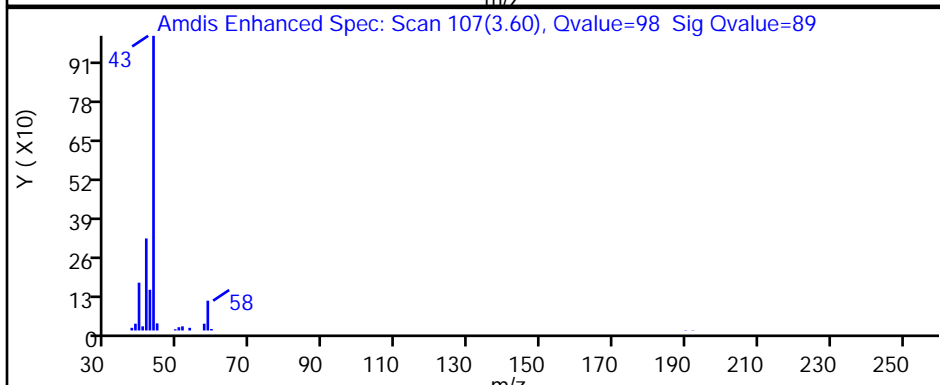
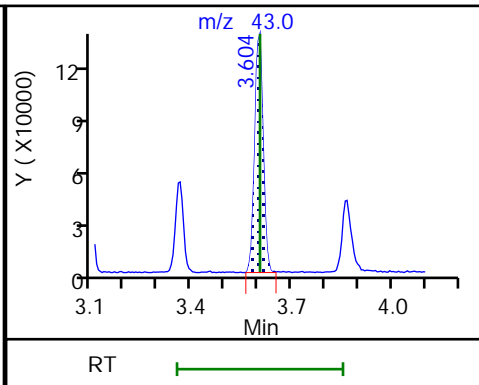
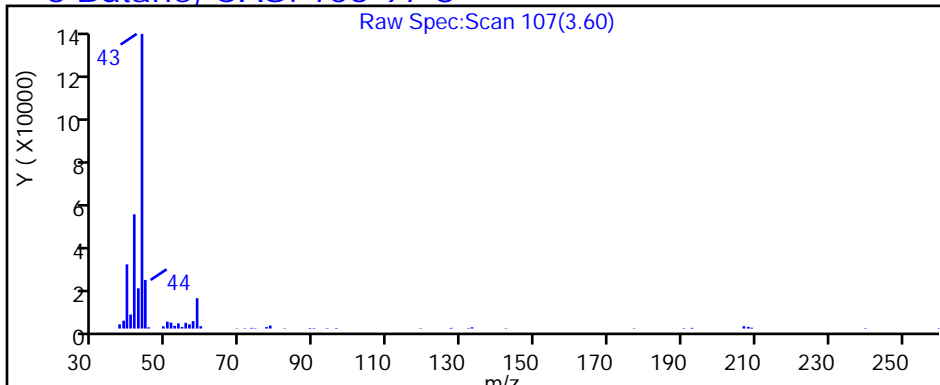
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

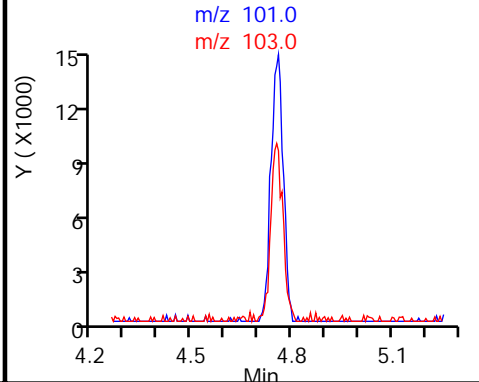
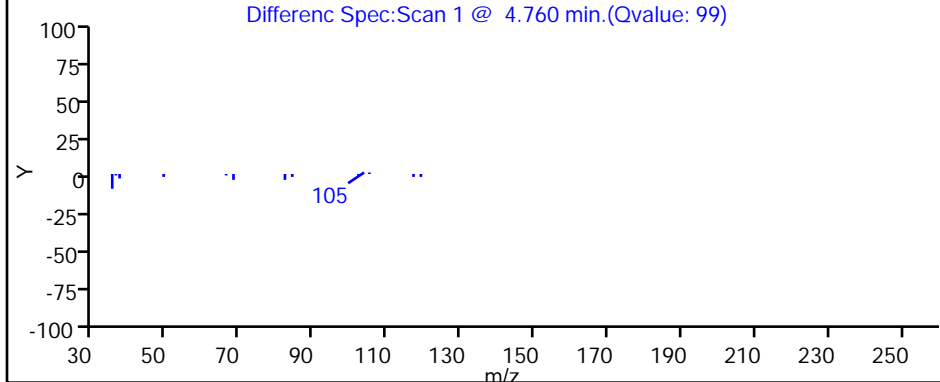
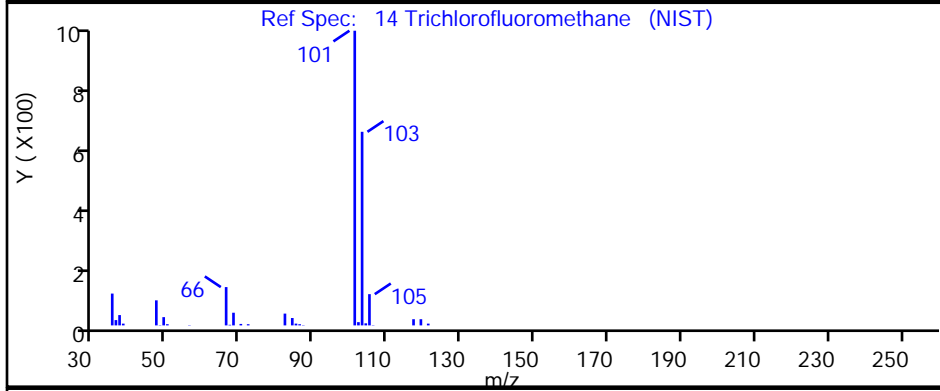
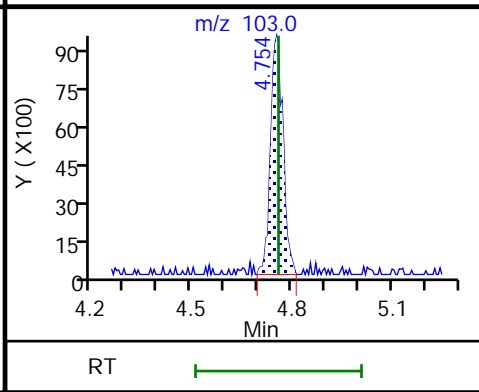
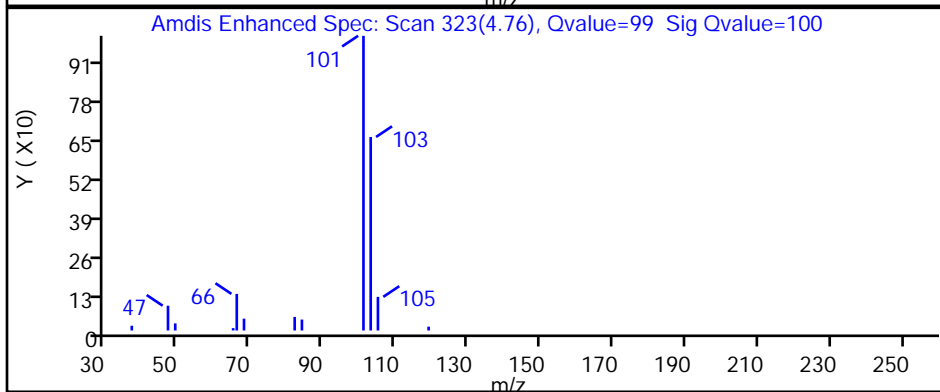
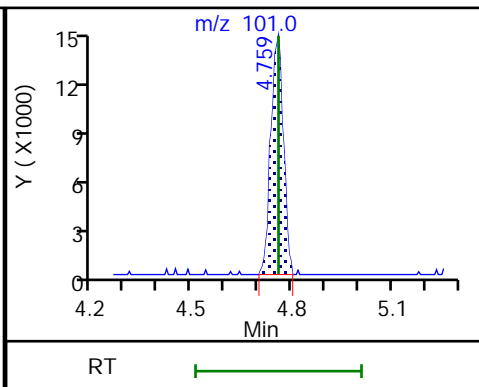
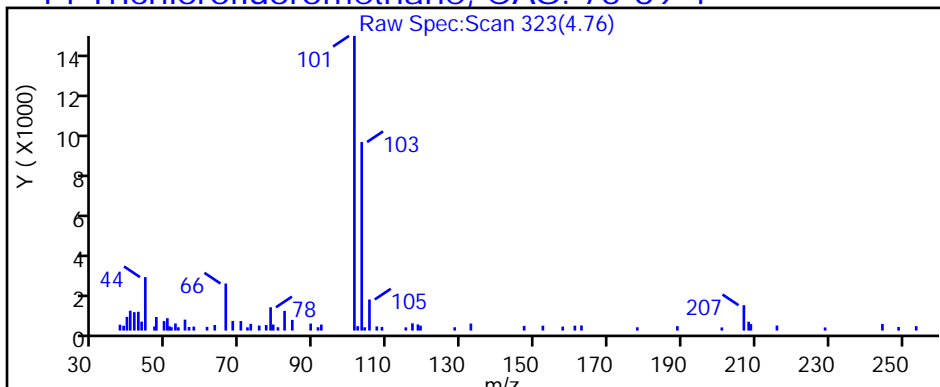
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

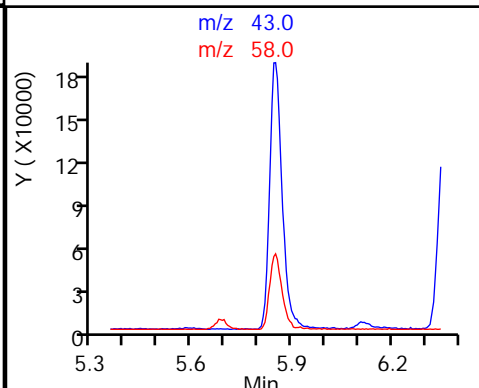
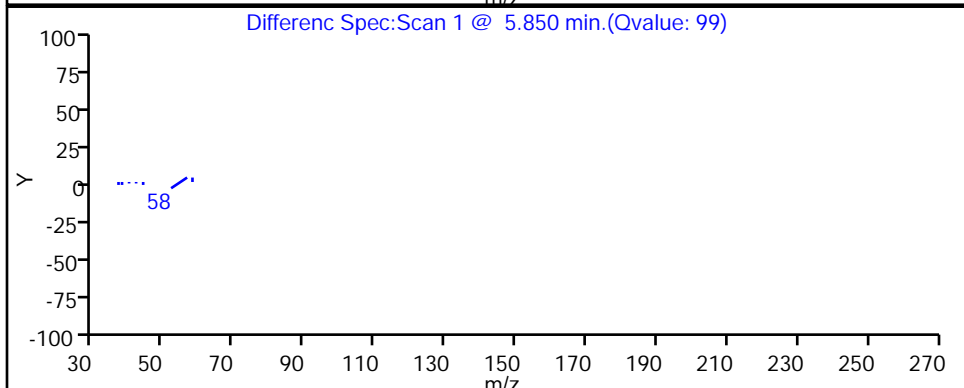
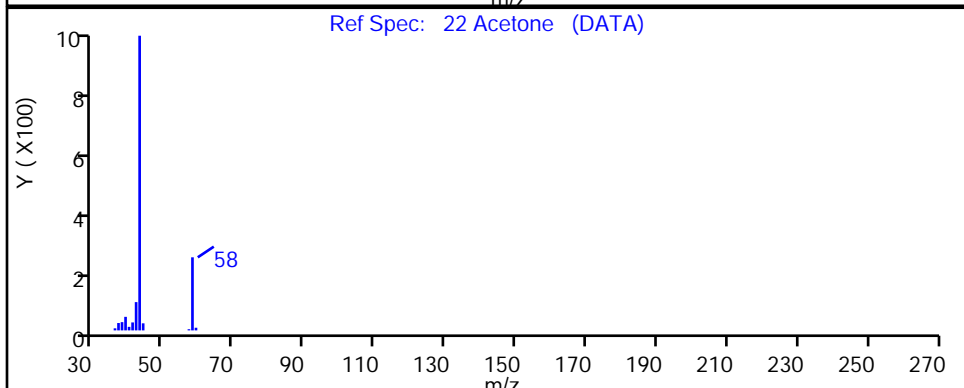
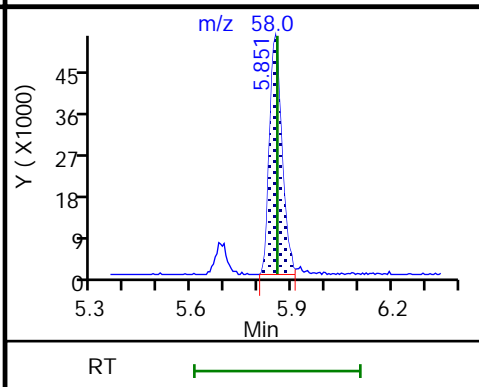
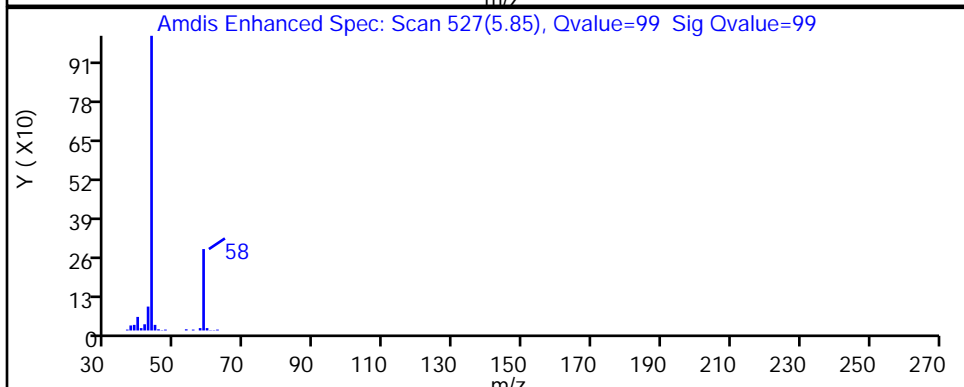
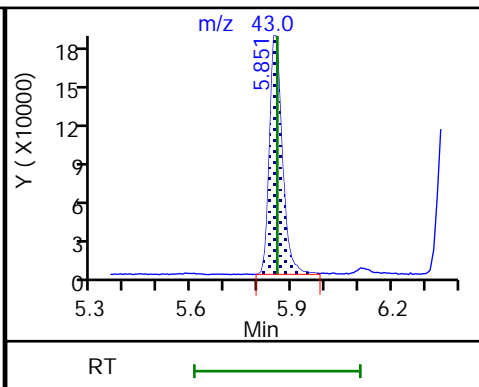
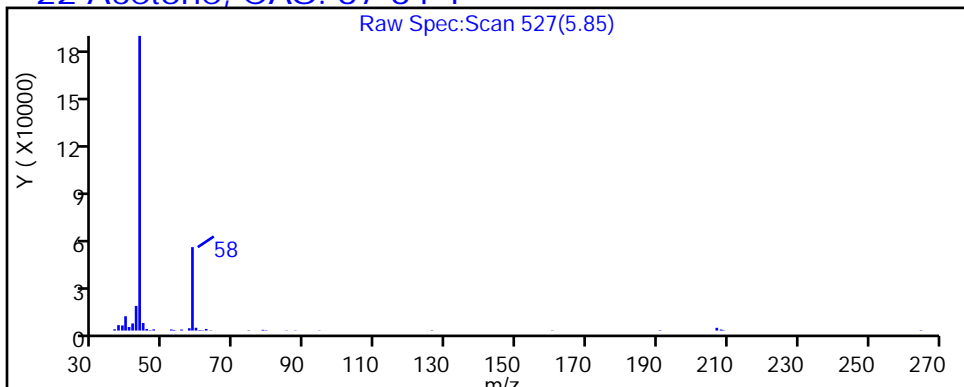
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

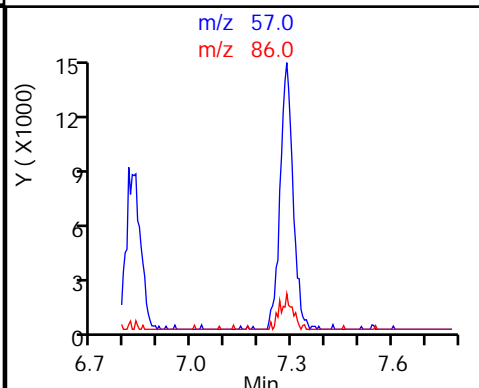
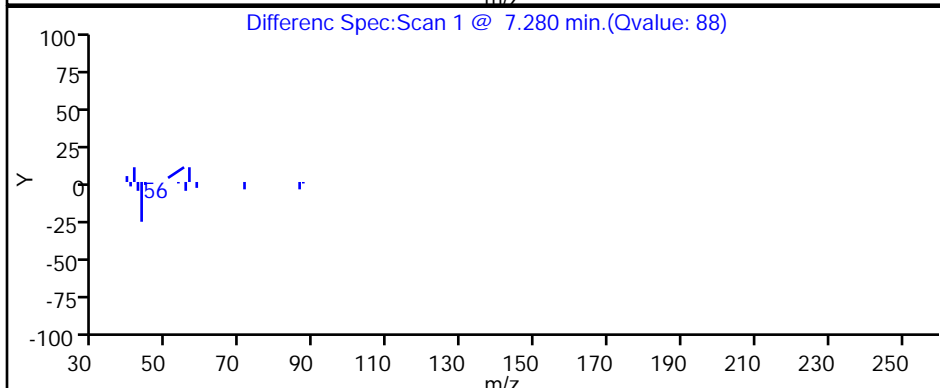
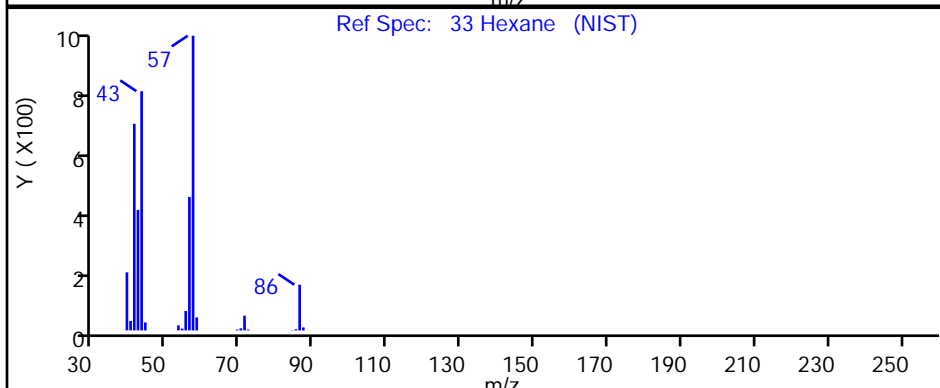
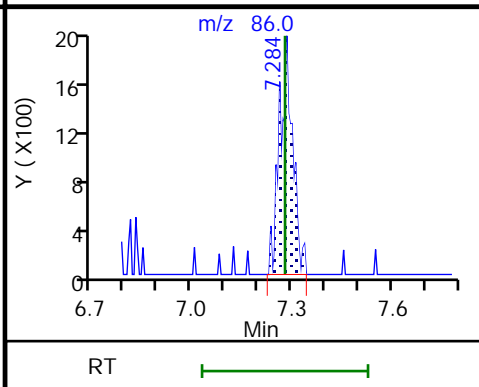
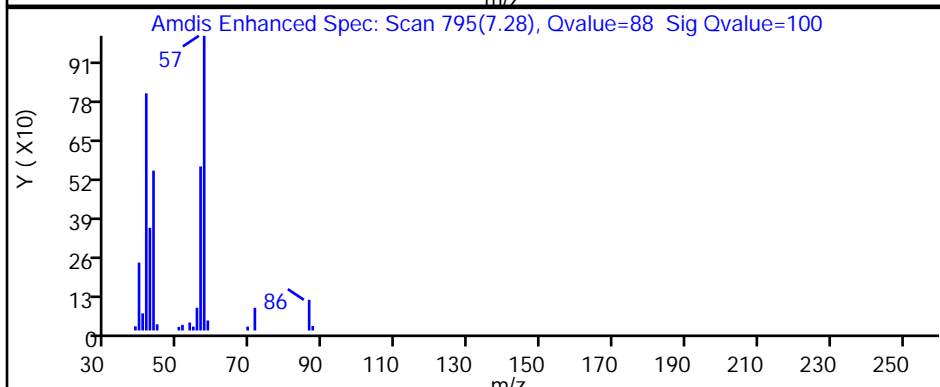
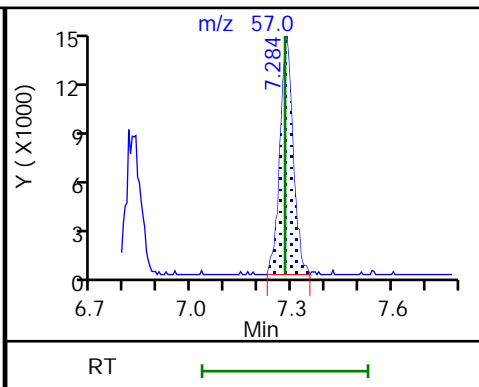
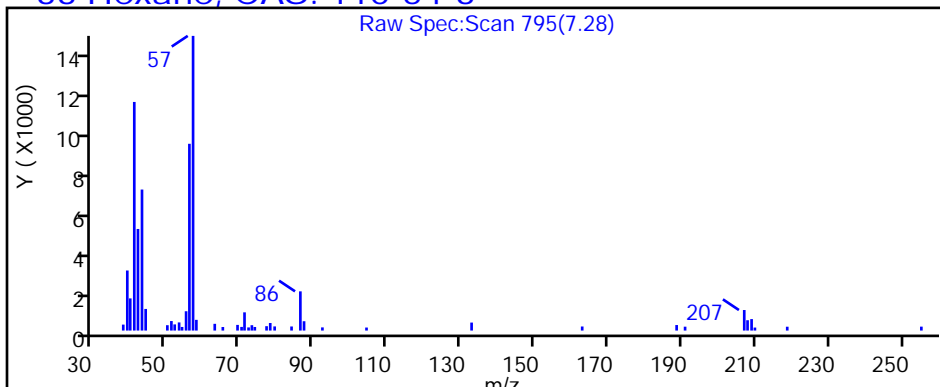
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

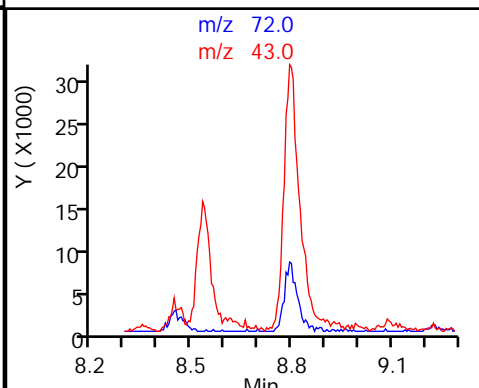
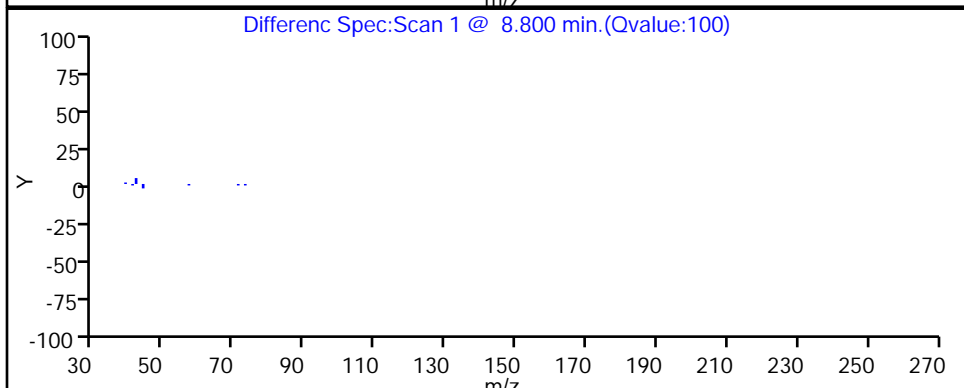
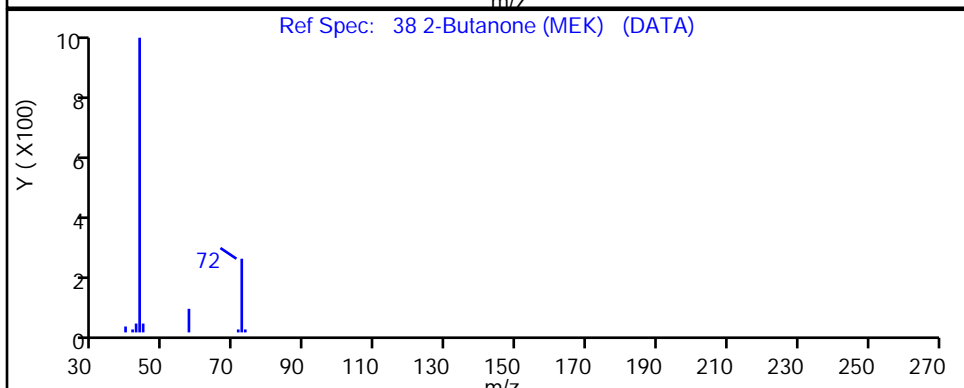
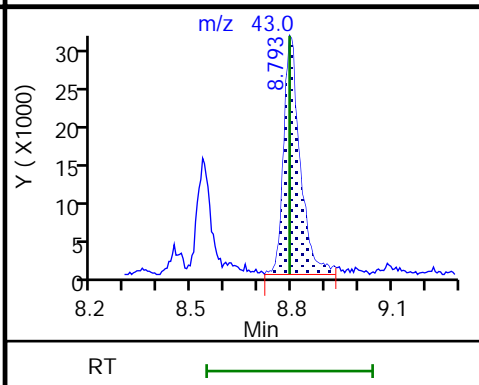
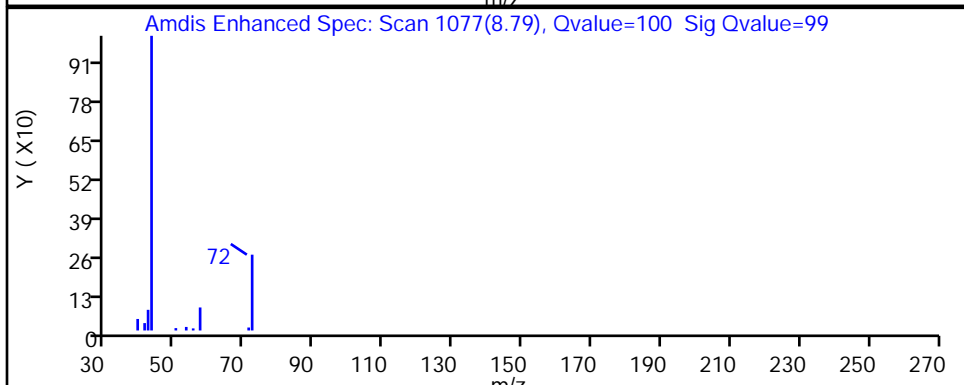
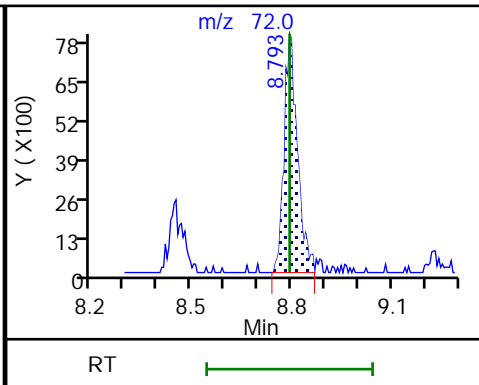
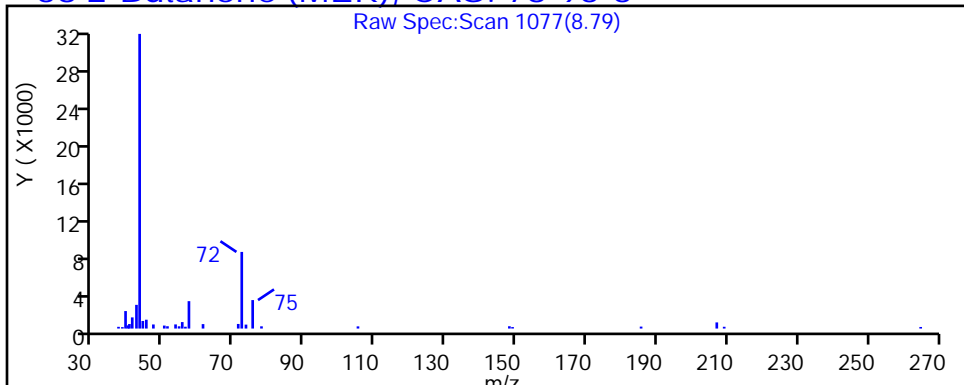
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

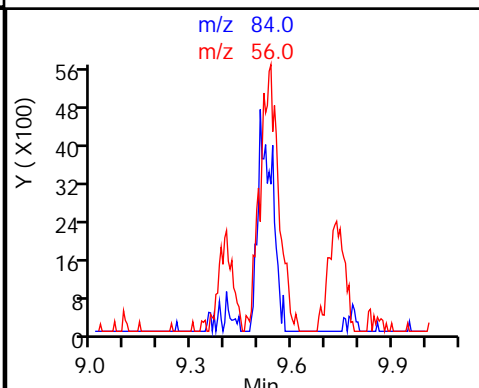
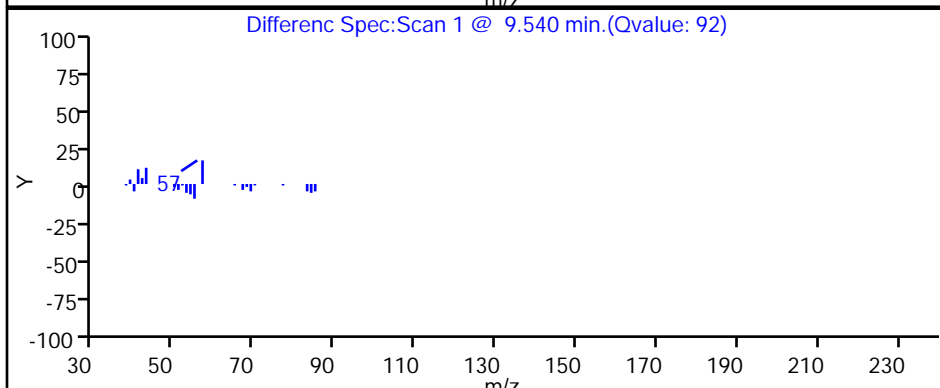
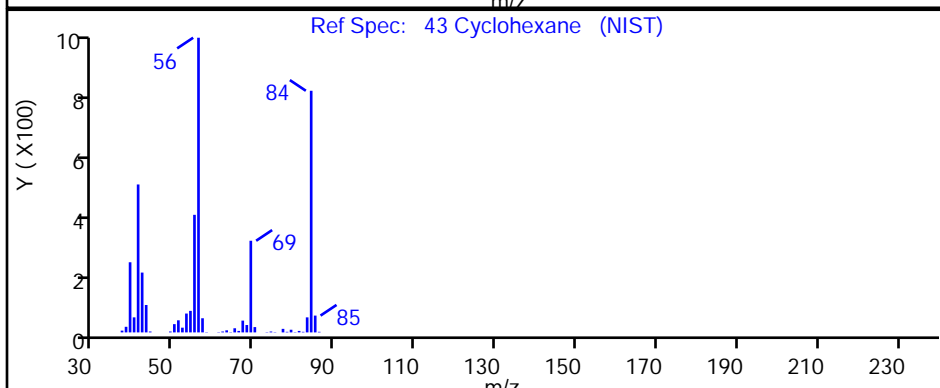
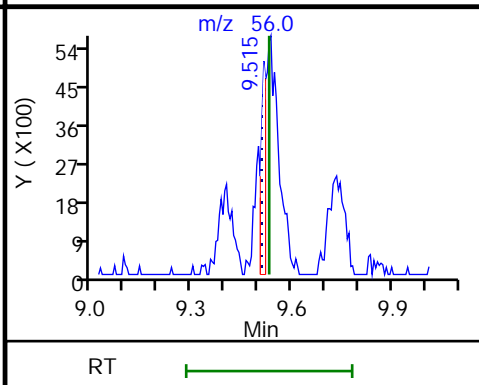
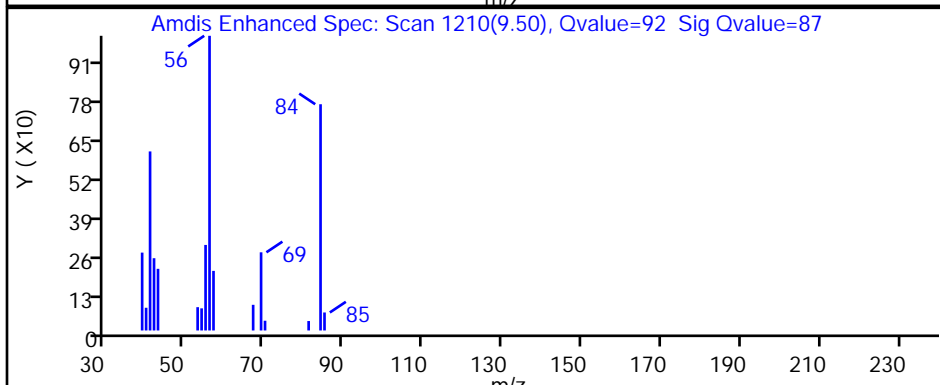
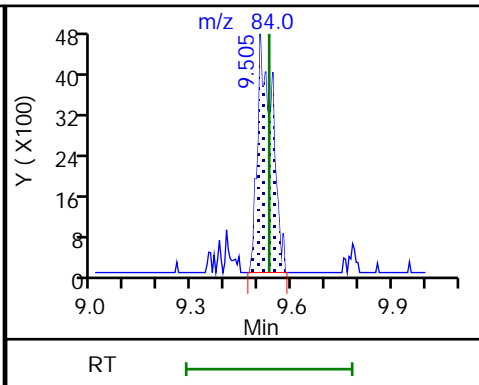
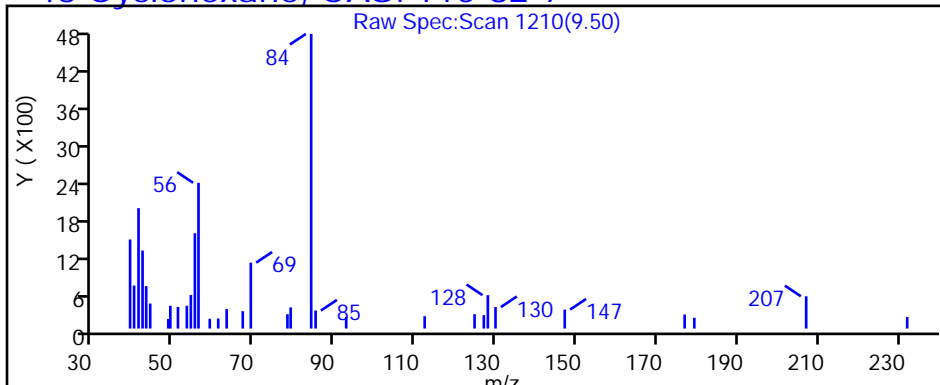
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

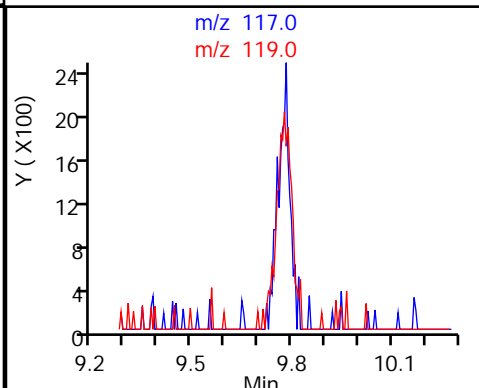
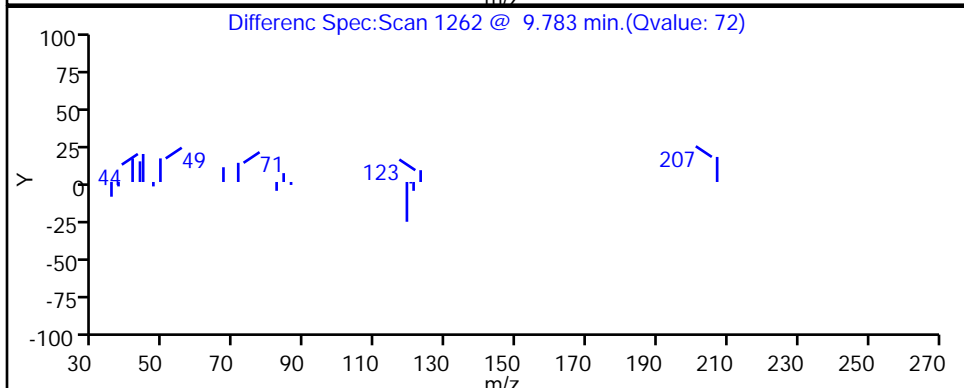
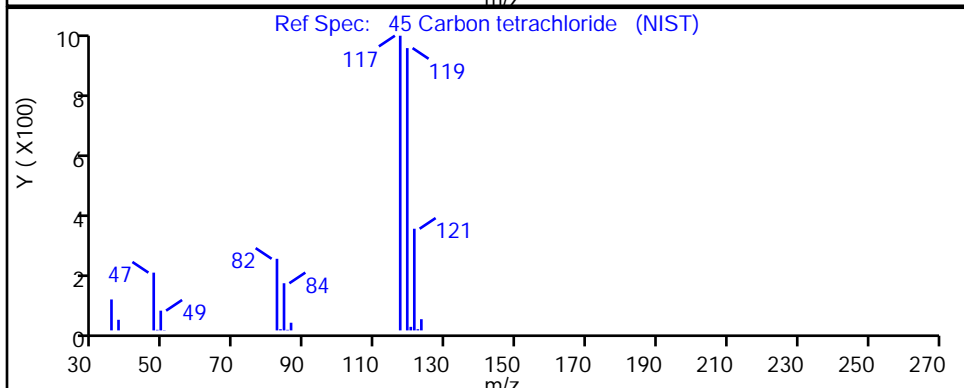
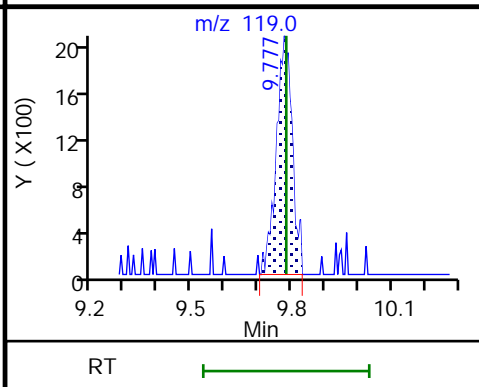
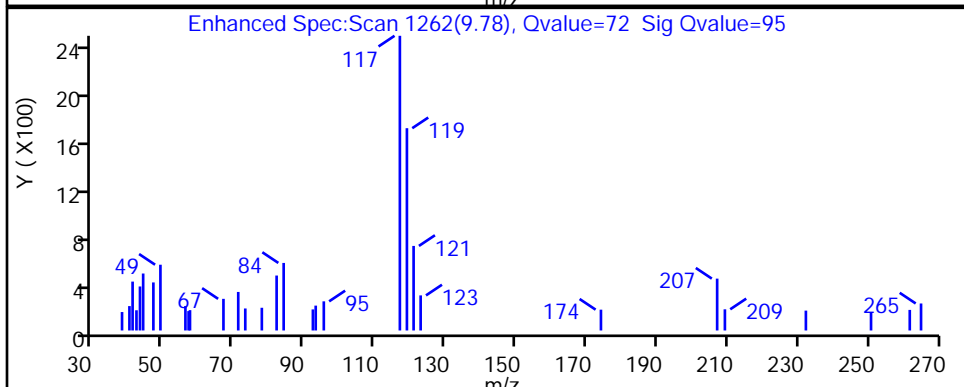
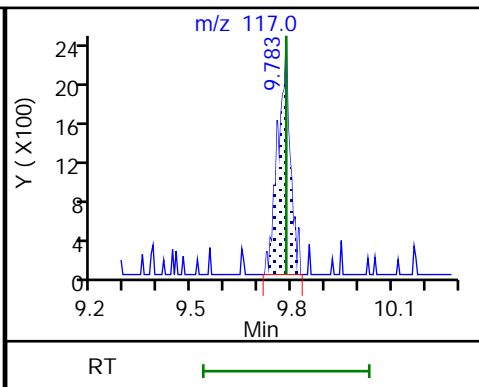
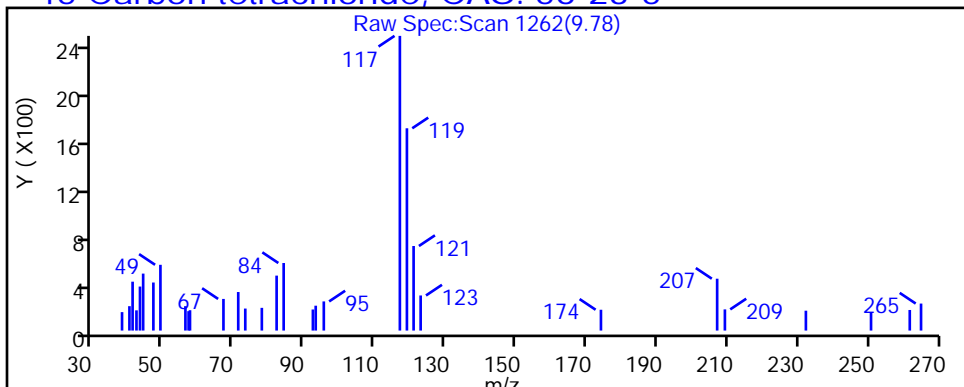
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

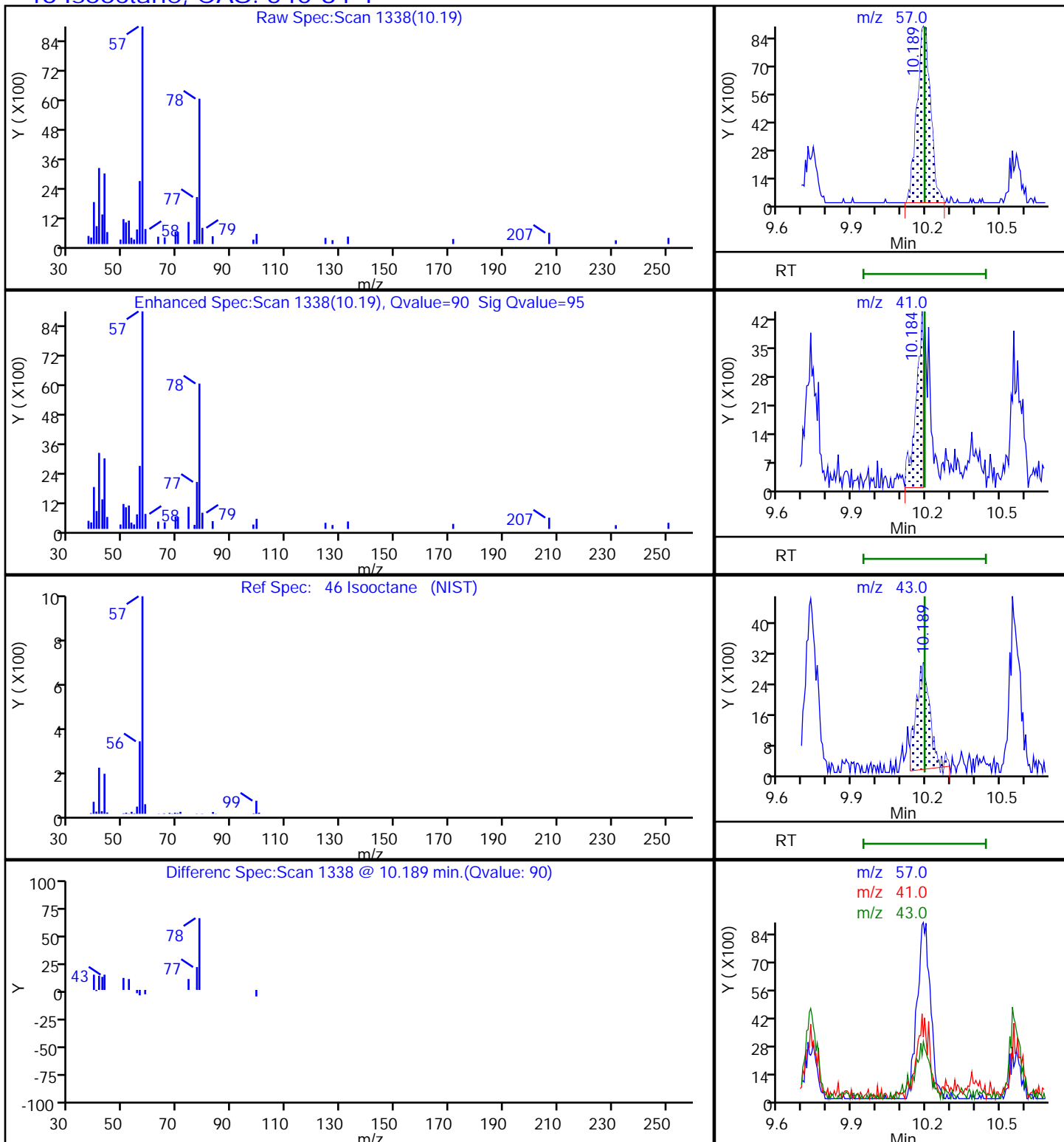
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

46 Isooctane, CAS: 540-84-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

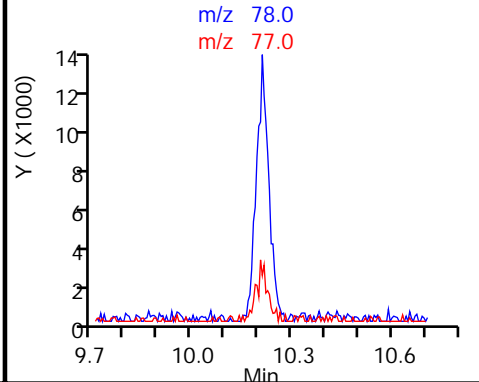
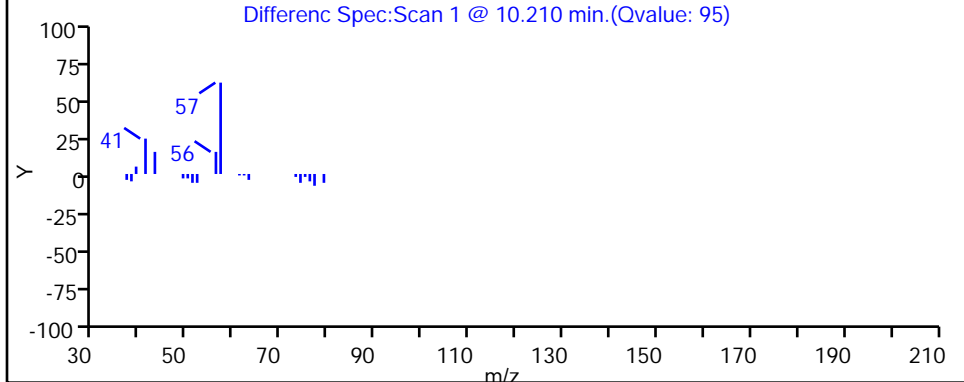
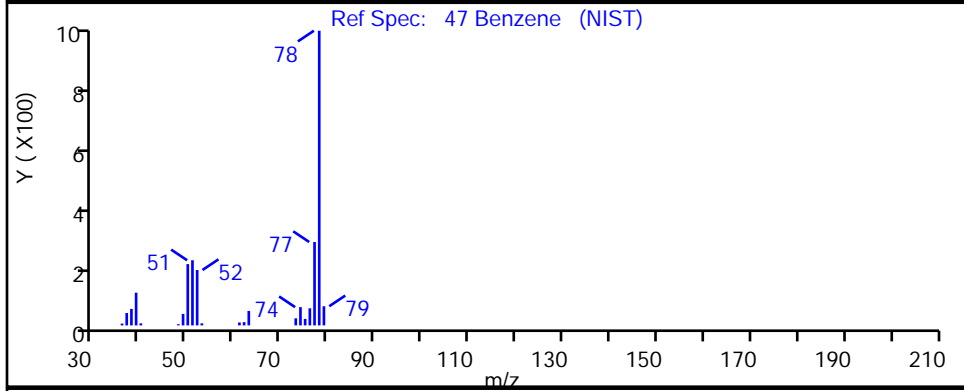
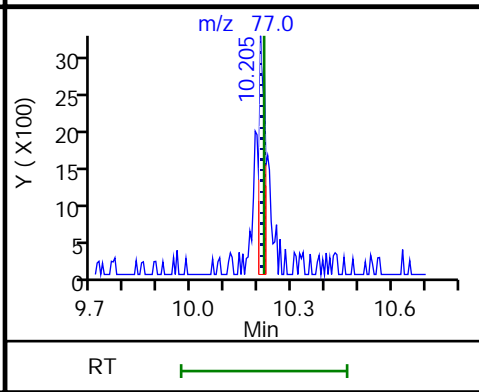
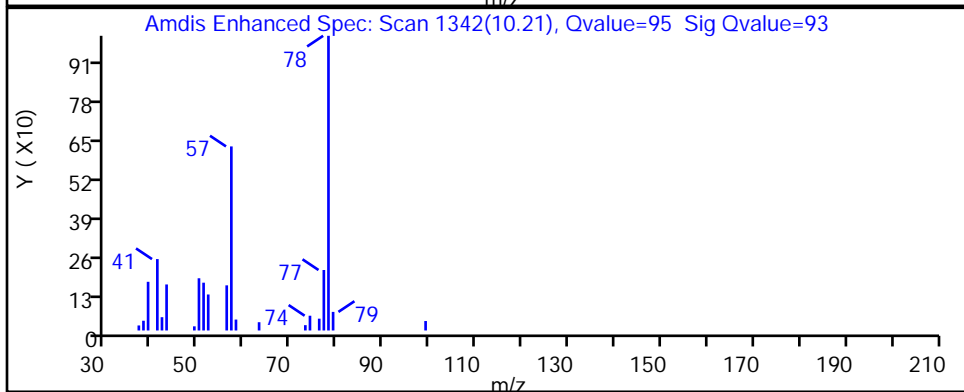
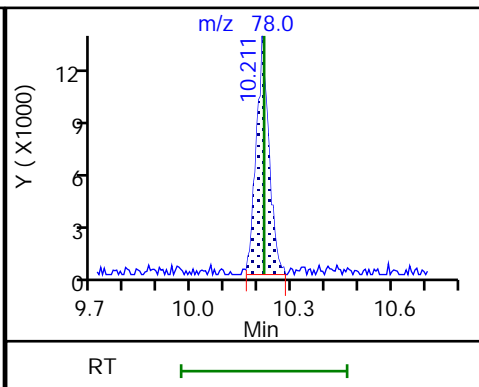
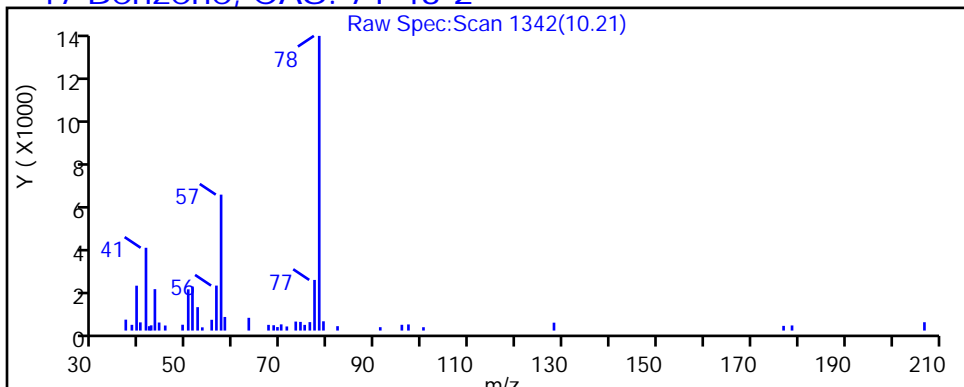
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21 Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

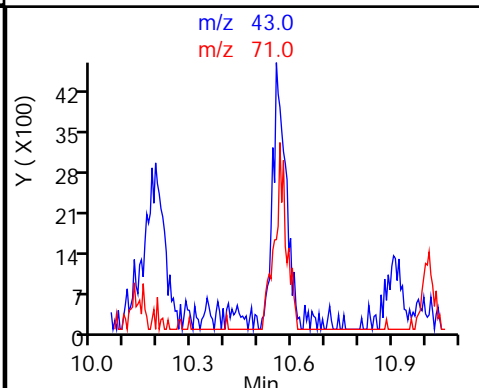
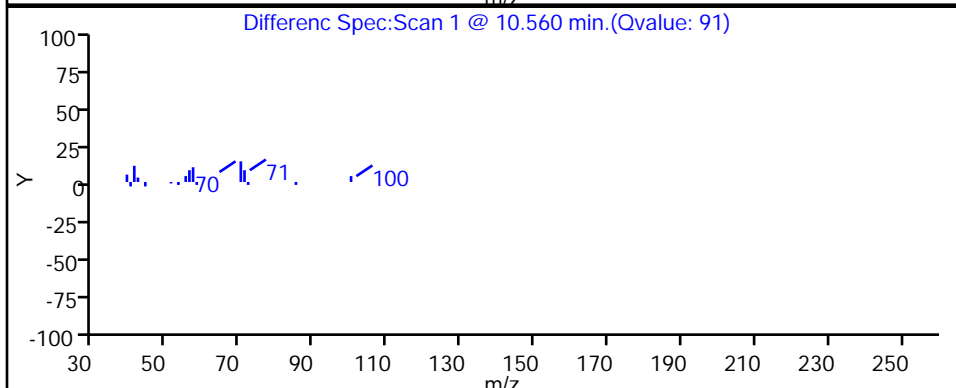
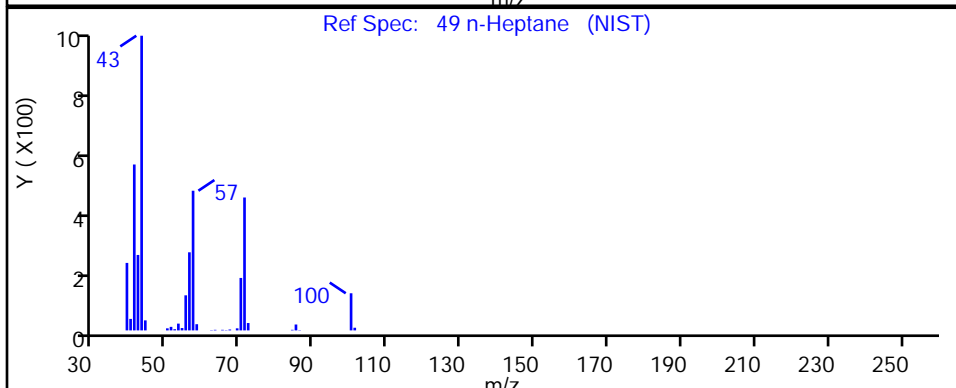
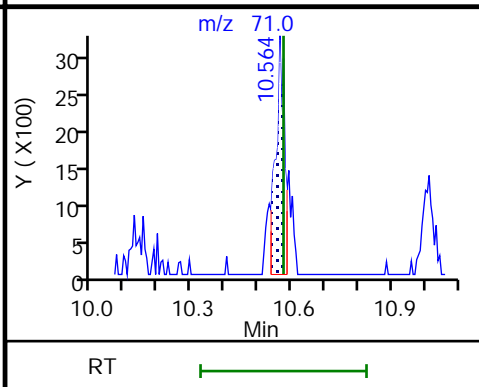
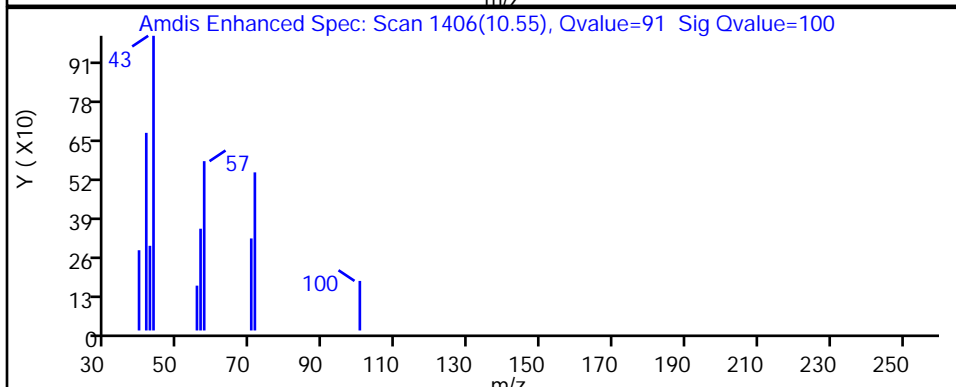
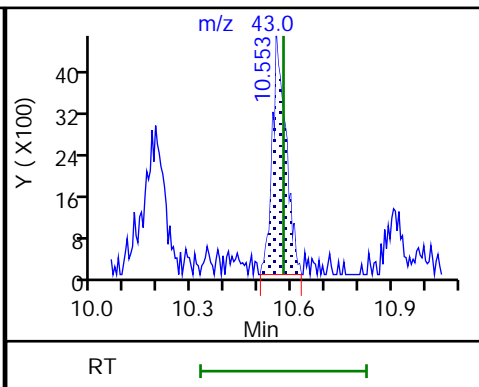
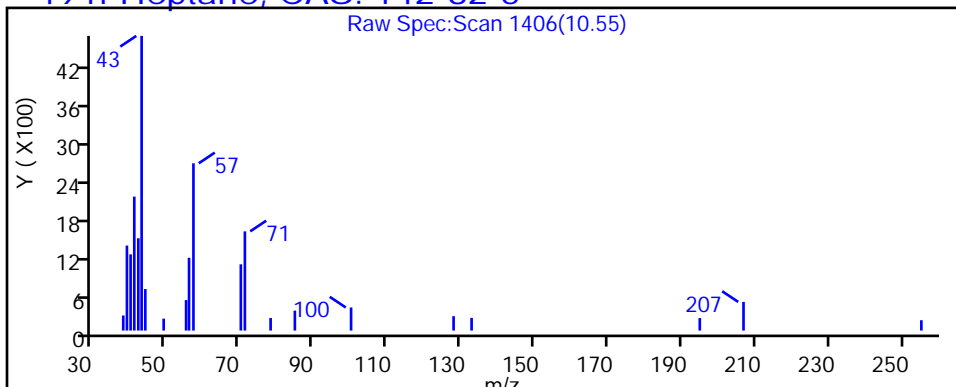
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D

Injection Date: 06-Dec-2018 06:51:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-5

Lab Sample ID: 200-46353-5

Client ID: IA-4\_20181120

Operator ID: ert

ALS Bottle#: 21

Worklist Smp#: 21

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

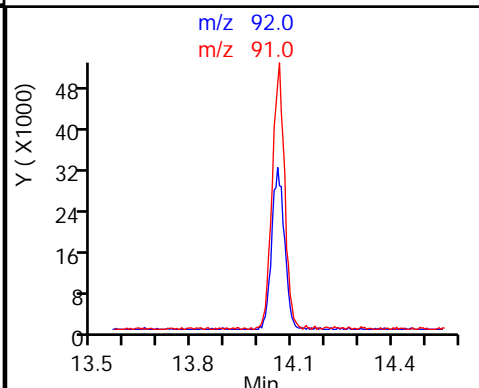
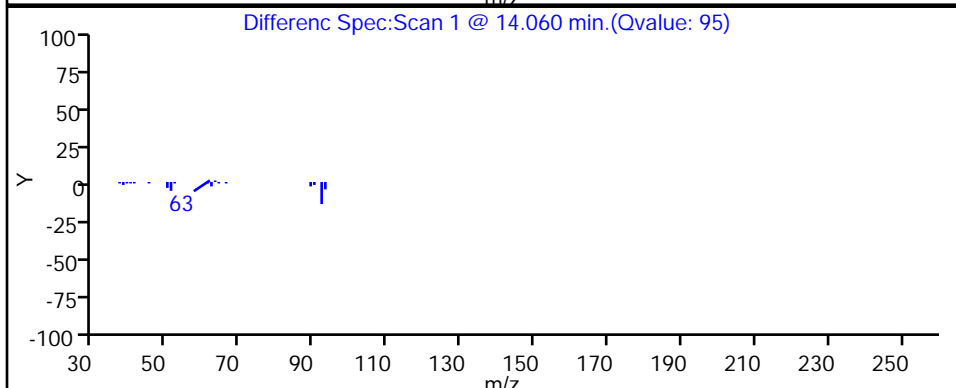
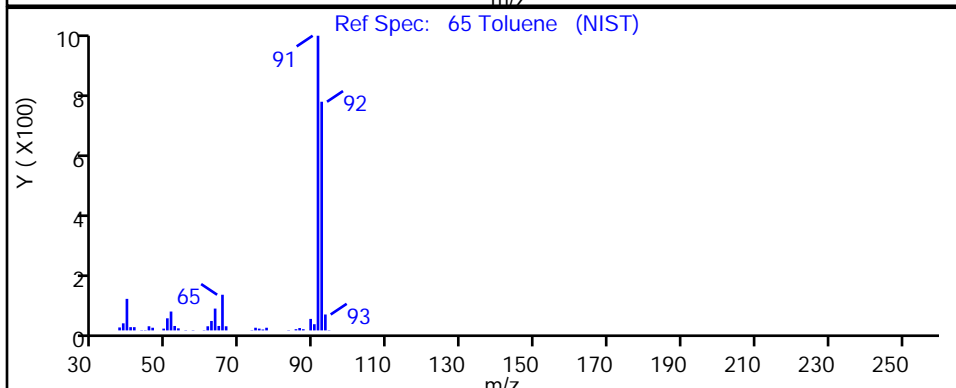
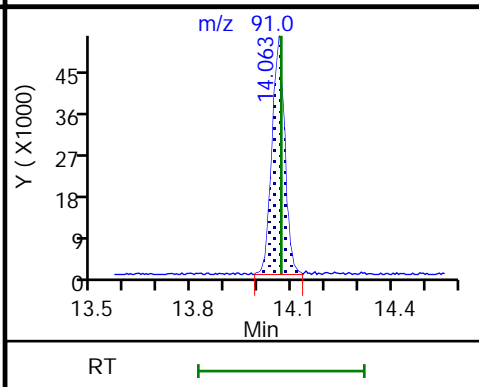
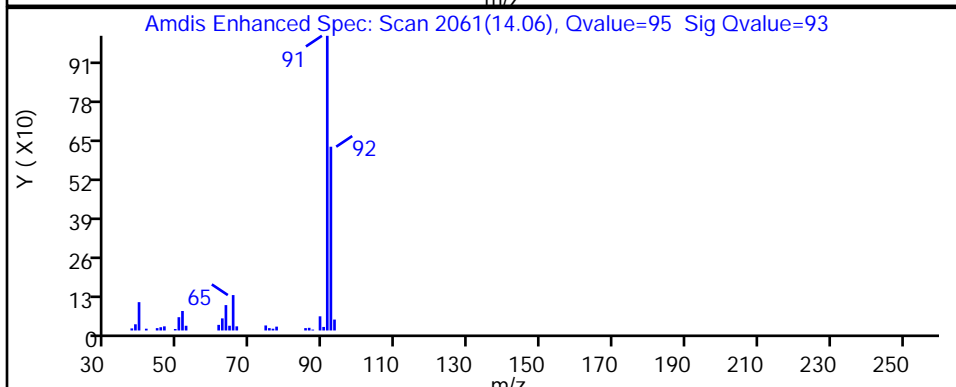
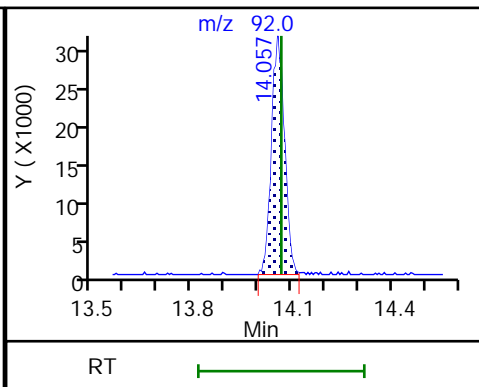
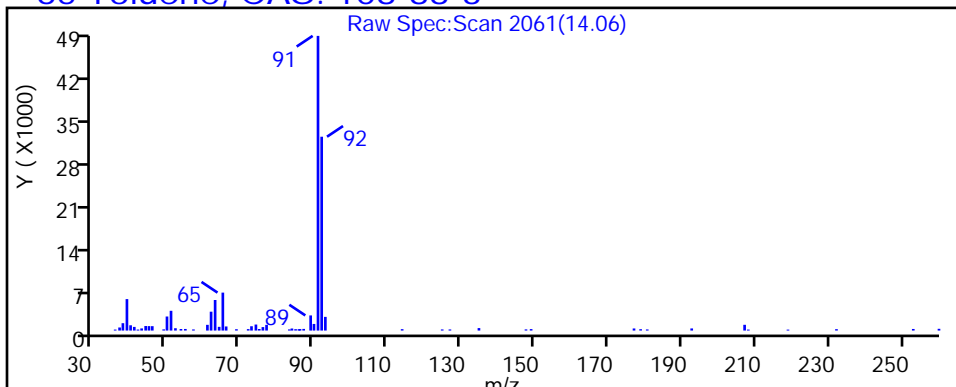
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3

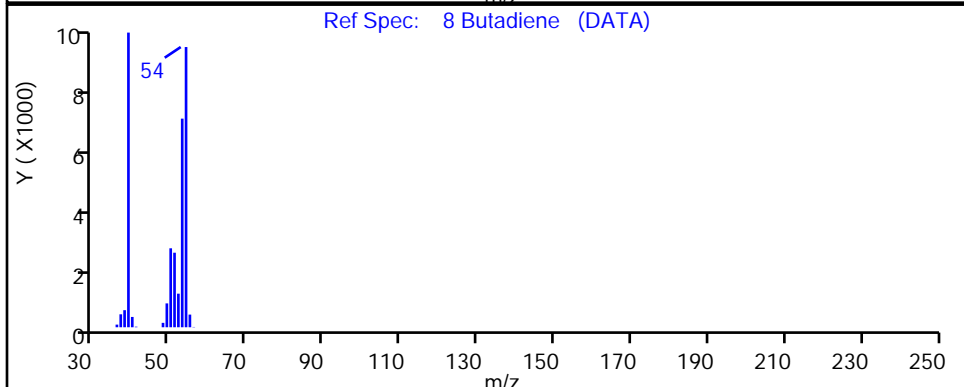
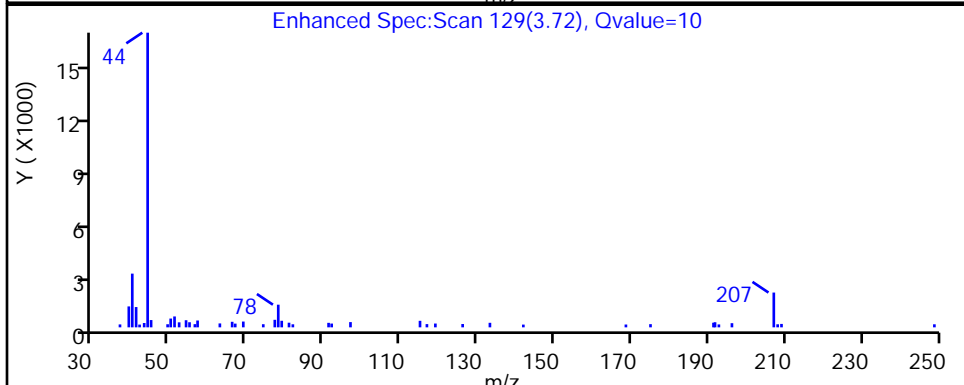
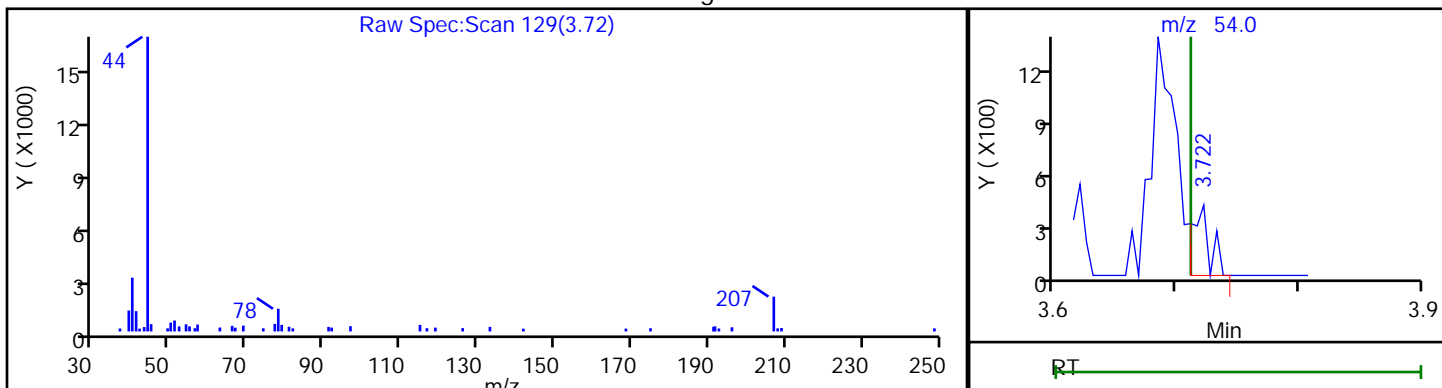


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.72 | 54.00 | 381      | 0.012114 |

Reviewer: bunmaa, 07-Dec-2018 09:07:58

Audit Action: Marked Compound Undetected

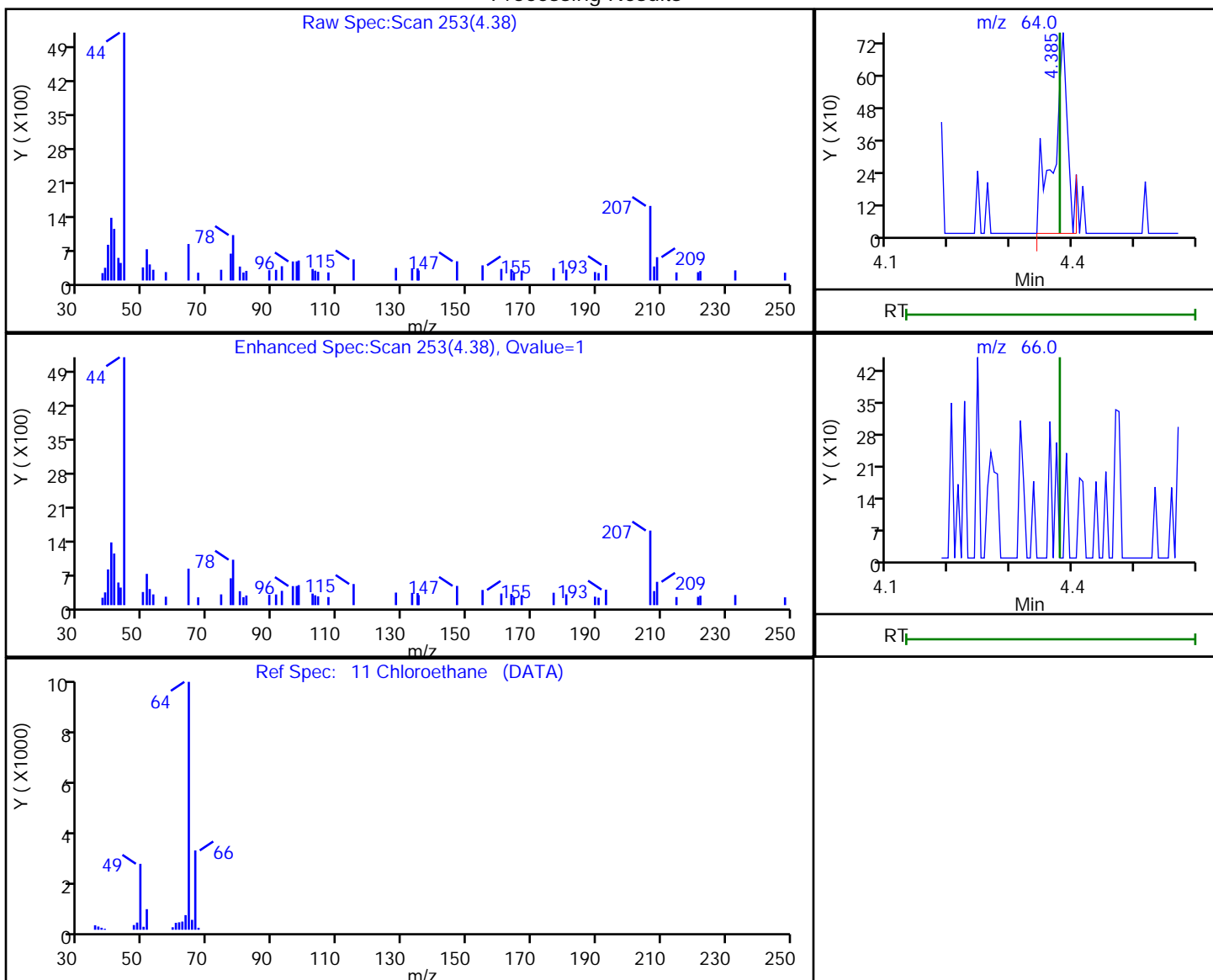
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

11 Chloroethane, CAS: 75-00-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.38 | 64.00 | 1193     | 0.061323 |
| 4.38 | 66.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:08:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

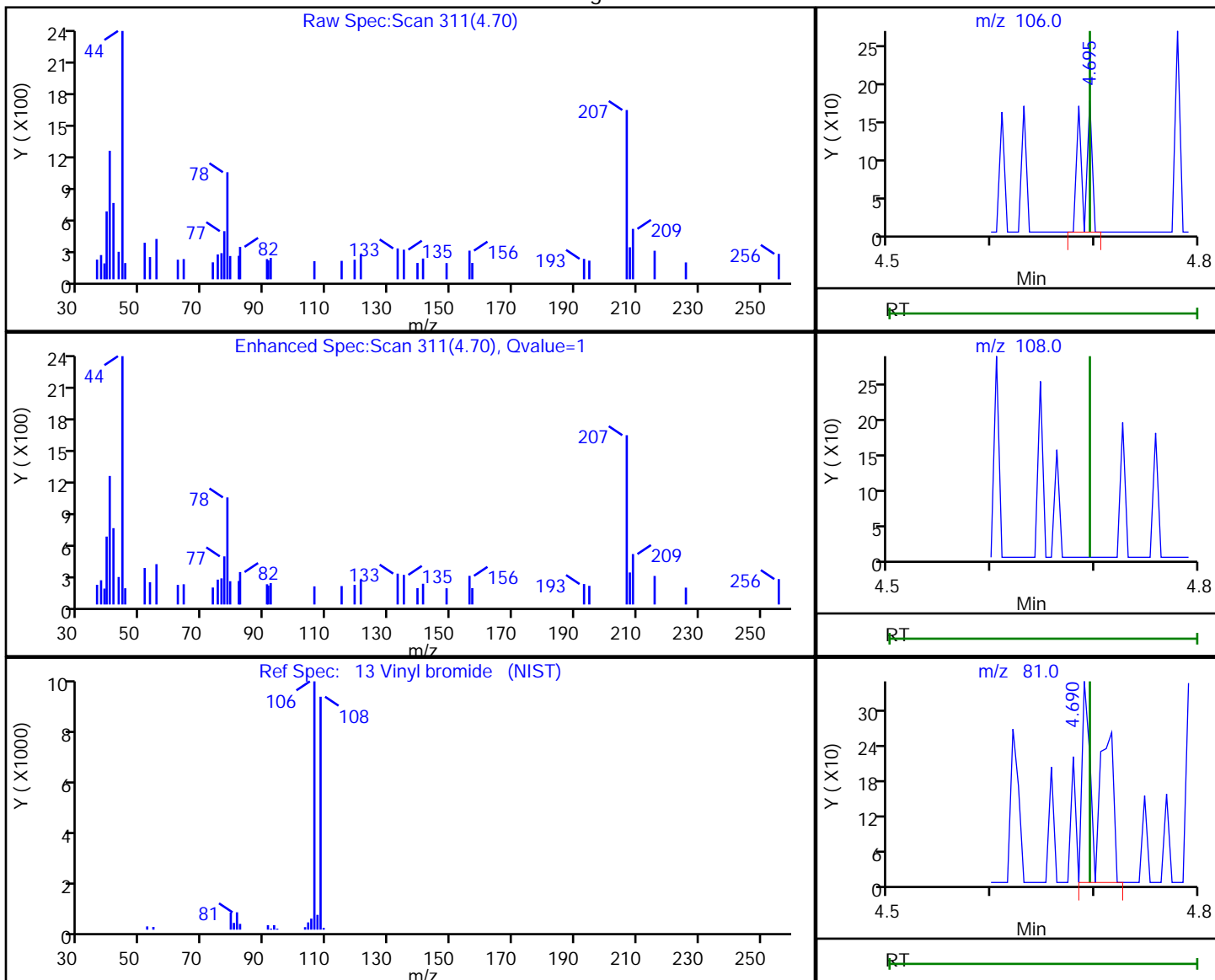


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.70 | 106.00 | 108      | 0.001872 |
| 4.69 | 81.00  | 416      |          |
| 4.70 | 108.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:33:17  
 Audit Action: Marked Compound Undetected

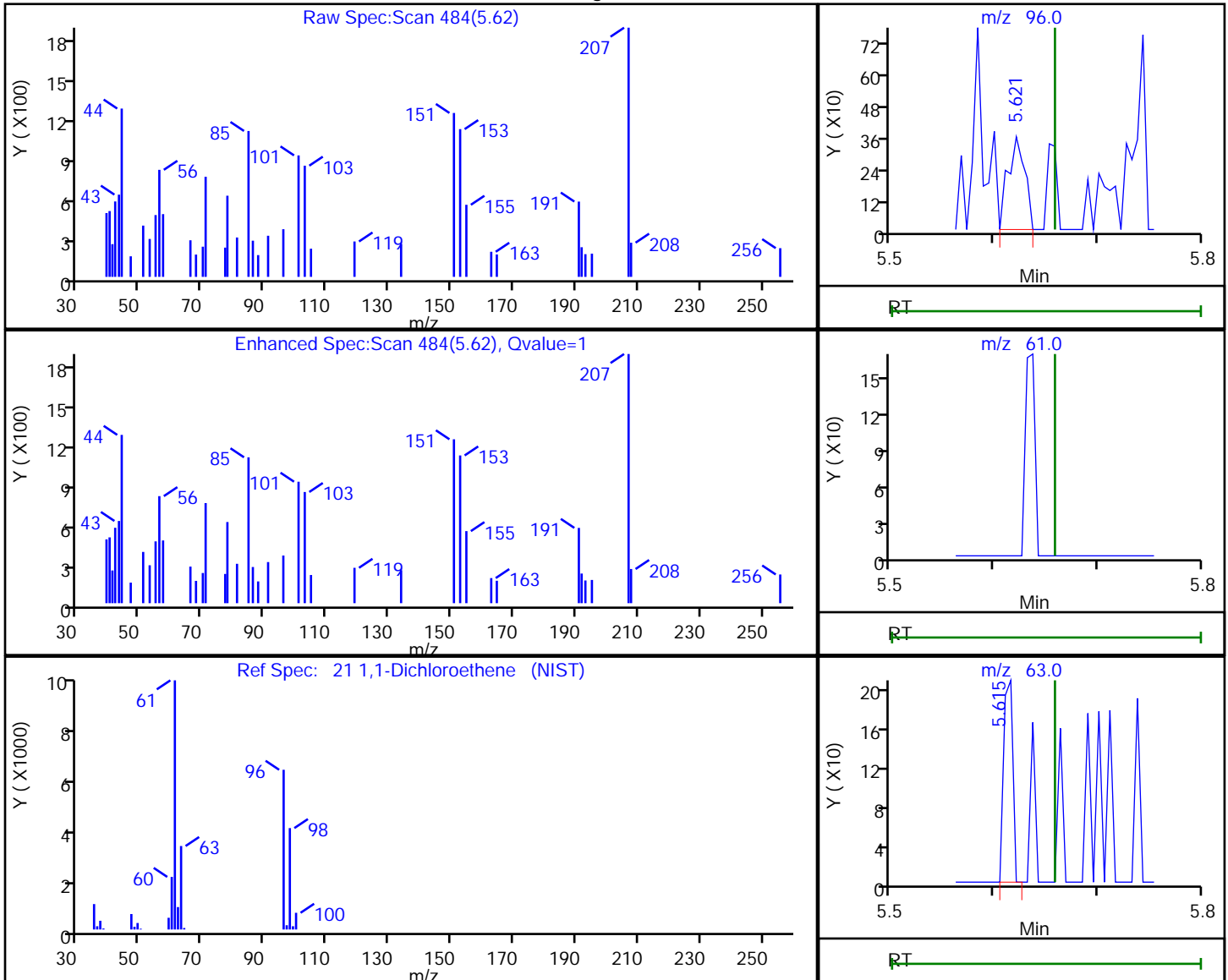
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.62 | 96.00 | 405      | 0.007658 |
| 5.66 | 61.00 | 0        |          |
| 5.62 | 63.00 | 125      |          |

Reviewer: guazzonig, 06-Dec-2018 13:33:19  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

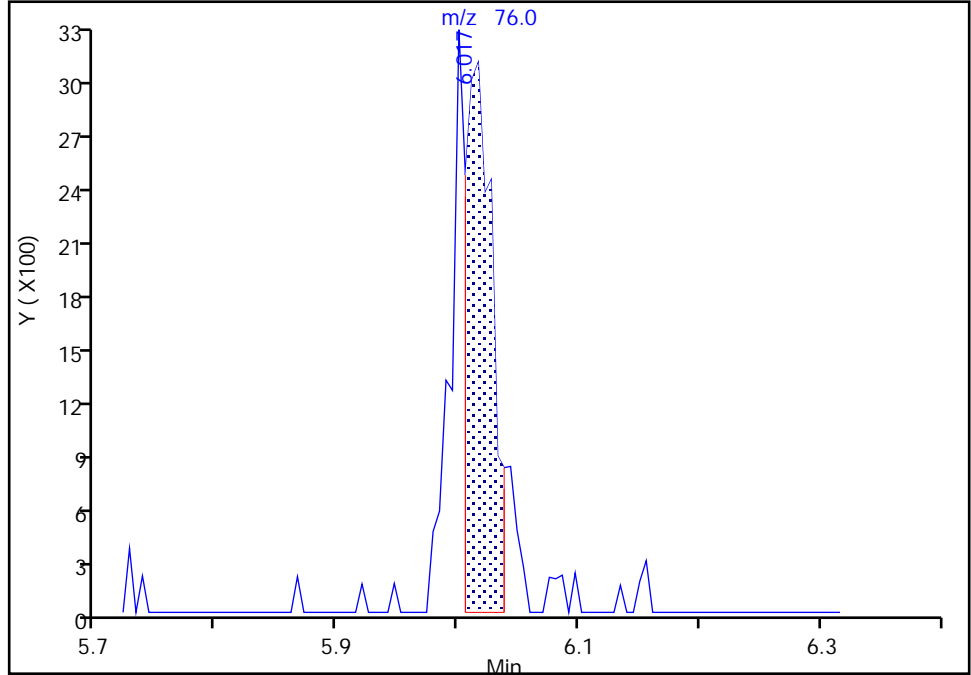
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

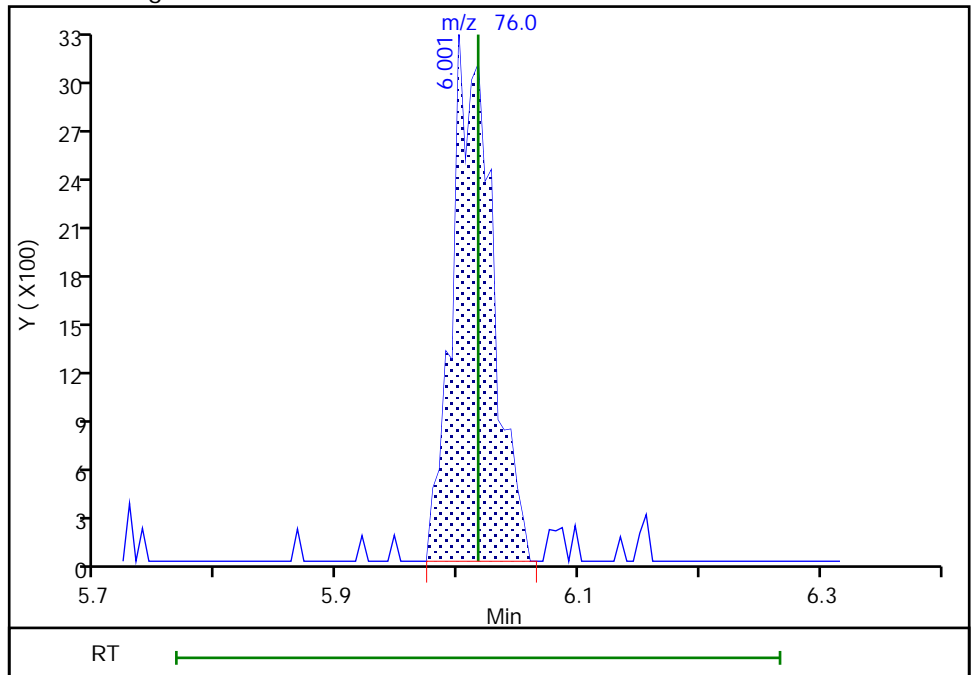
RT: 6.02  
Area: 4747  
Amount: 0.034895  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.00  
Area: 7399  
Amount: 0.054390  
Amount Units: ppb v/v

Manual Integration Results

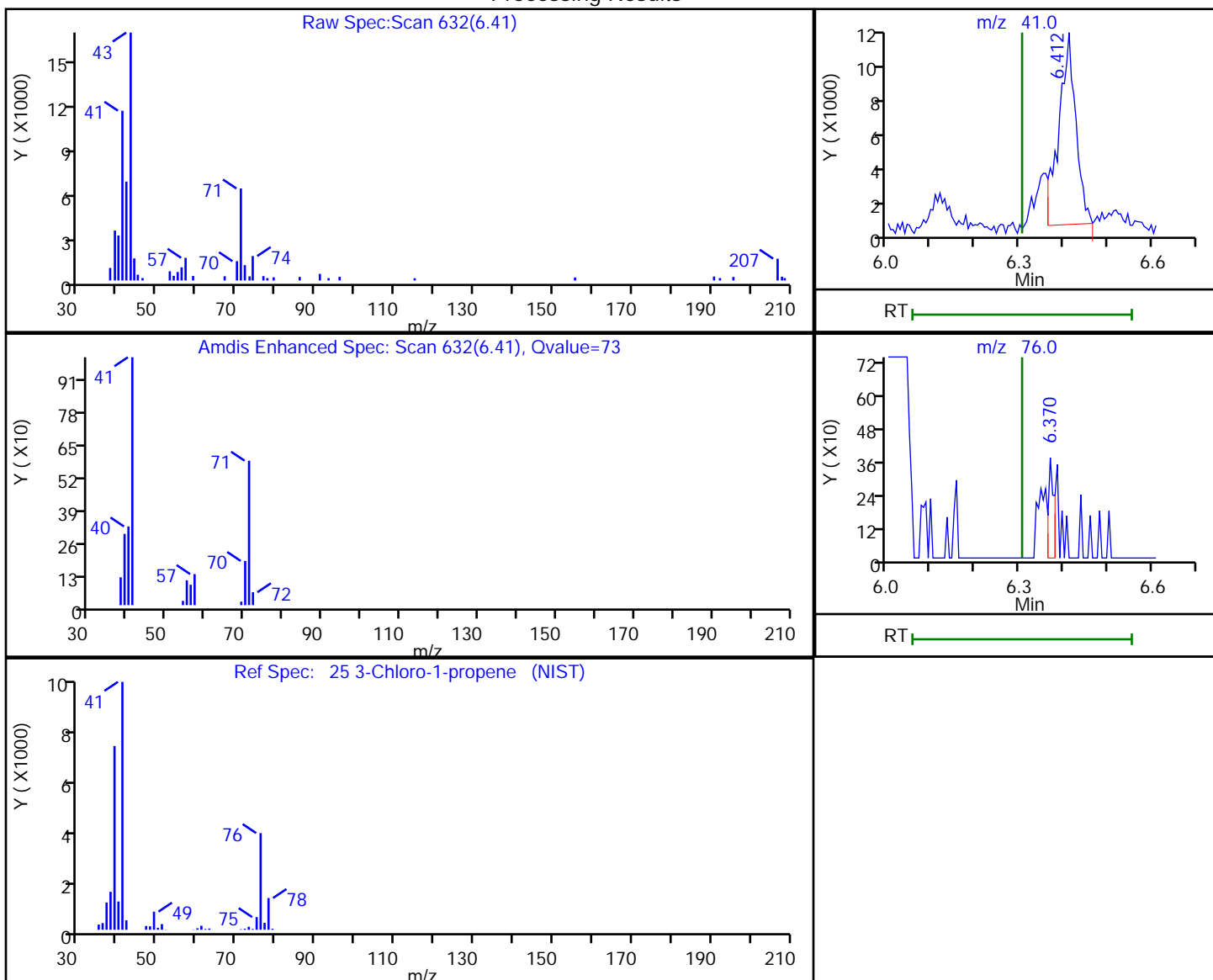


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.41 | 41.00 | 29678    | 0.754286 |
| 6.37 | 76.00 | 316      |          |

Reviewer: bunmaa, 07-Dec-2018 09:09:40

Audit Action: Marked Compound Undetected

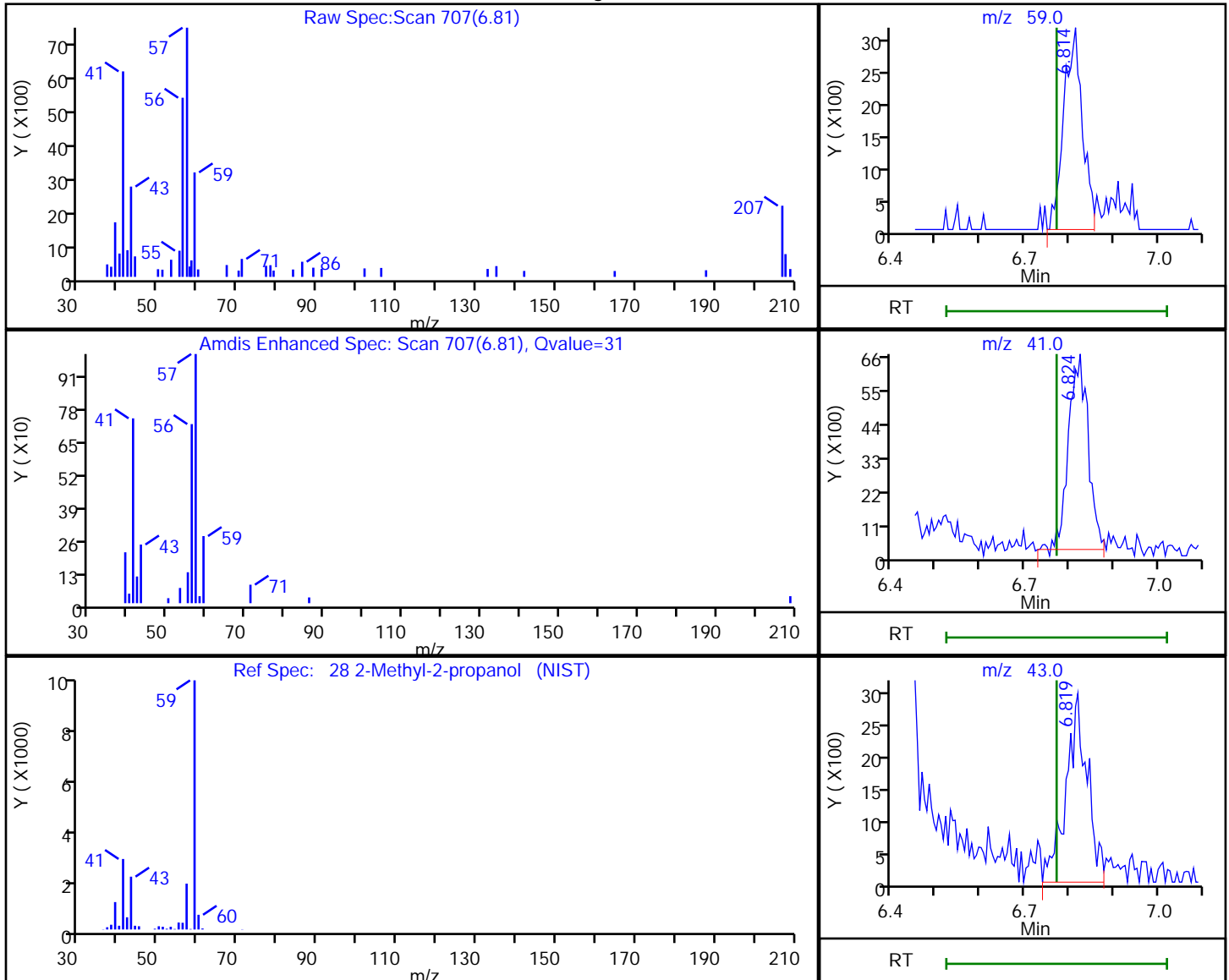
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.81 | 59.00 | 9141     | 0.120131 |
| 6.82 | 41.00 | 19894    |          |
| 6.82 | 43.00 | 9776     |          |

Reviewer: bunmaa, 07-Dec-2018 09:09:48

Audit Action: Marked Compound Undetected

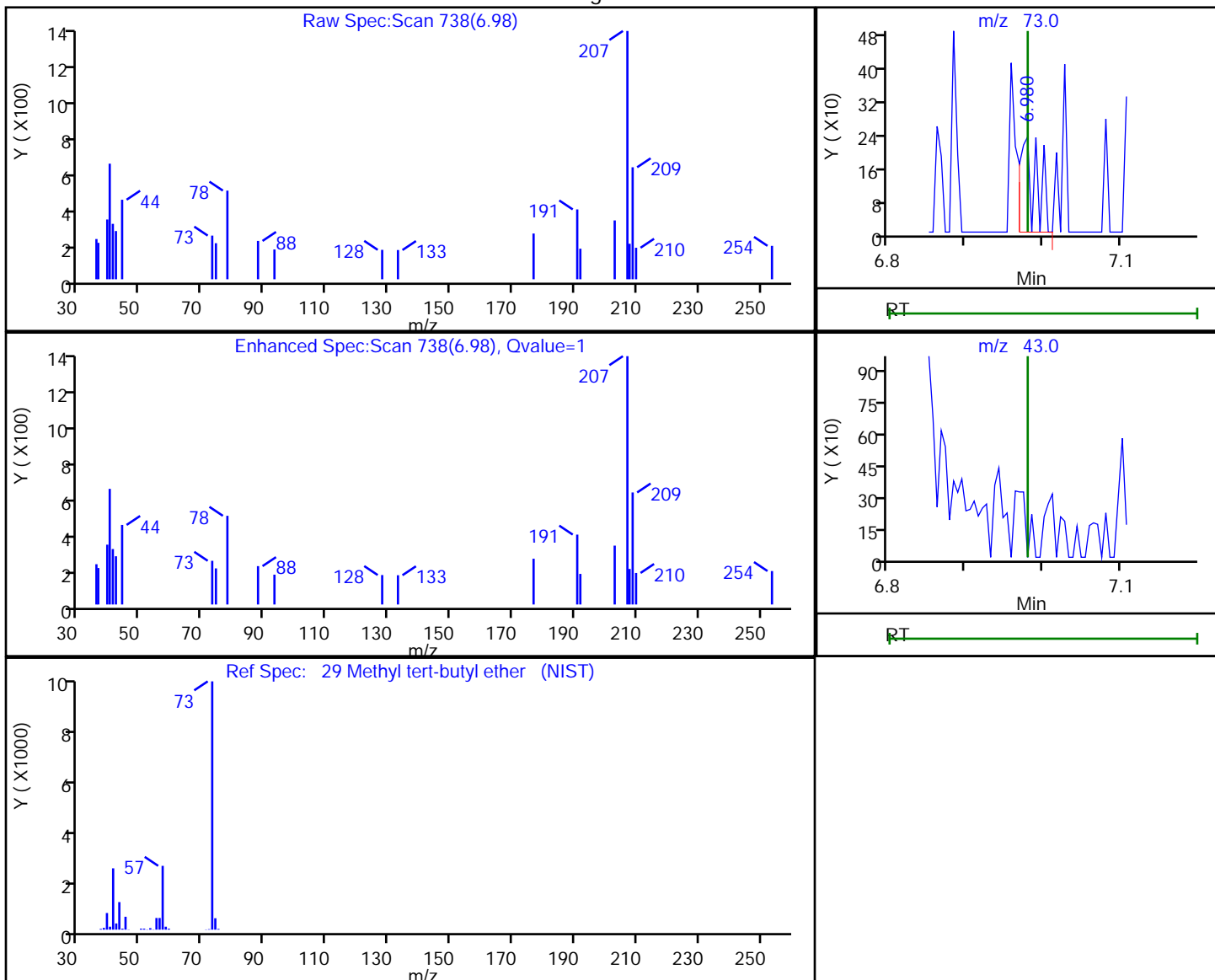
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.98 | 73.00 | 334      | 0.003249 |
| 6.98 | 43.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:09:54  
Audit Action: Marked Compound Undetected

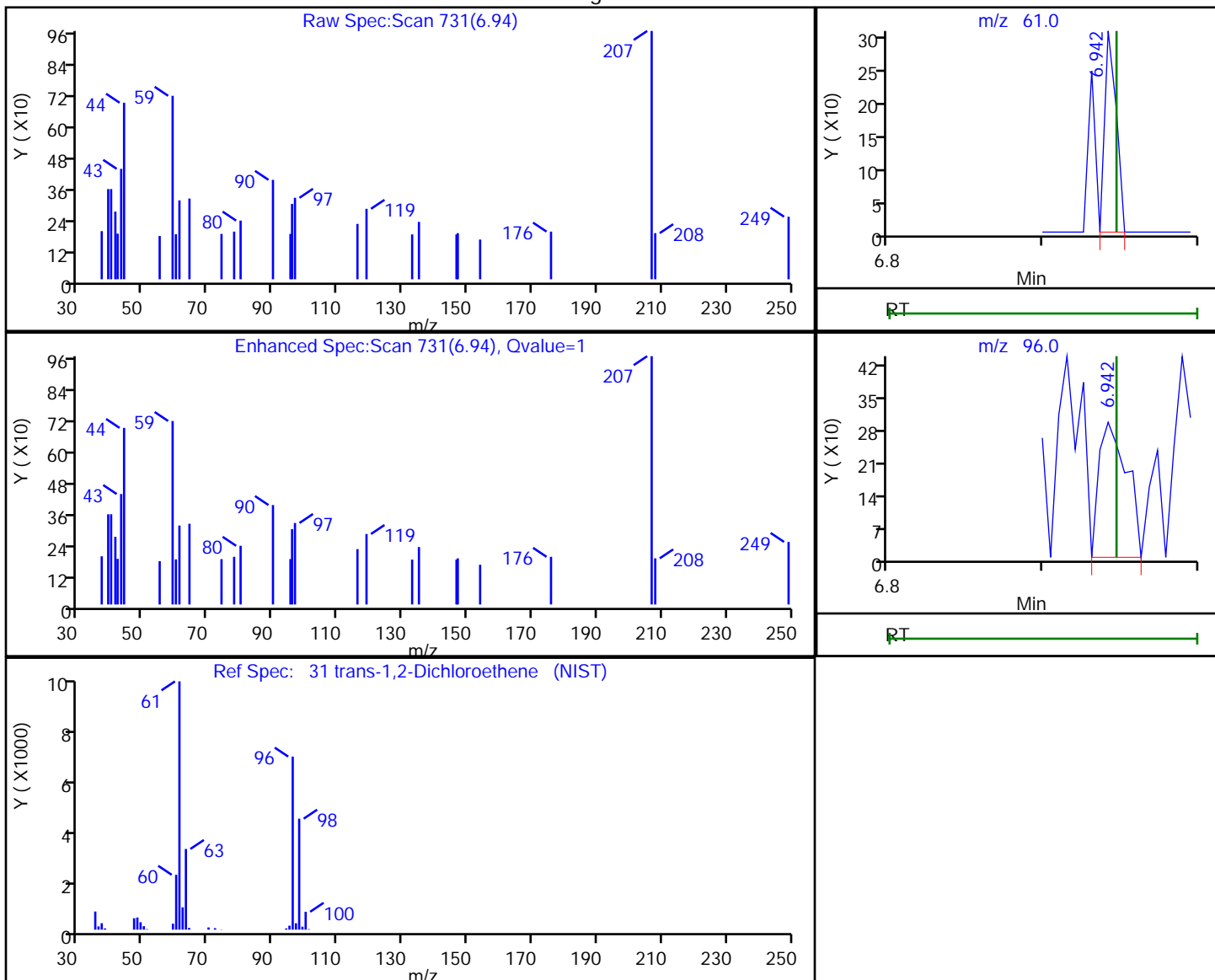
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.94 | 61.00 | 159      | 0.002481 |
| 6.94 | 96.00 | 368      |          |

Reviewer: guazzonig, 06-Dec-2018 13:33:29

Audit Action: Marked Compound Undetected

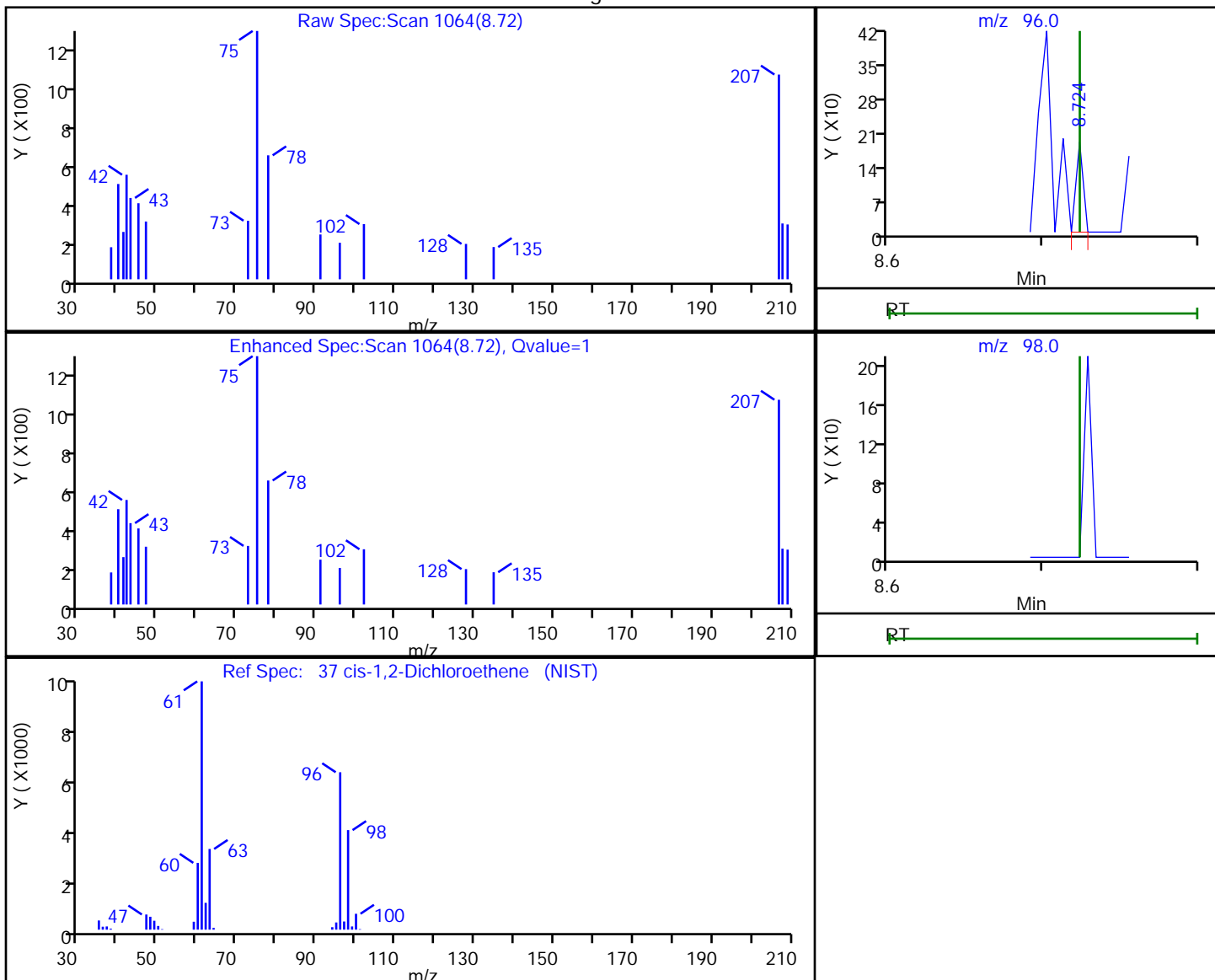
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.72 | 96.00 | 60       | 0.001198 |
| 8.72 | 98.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:33:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

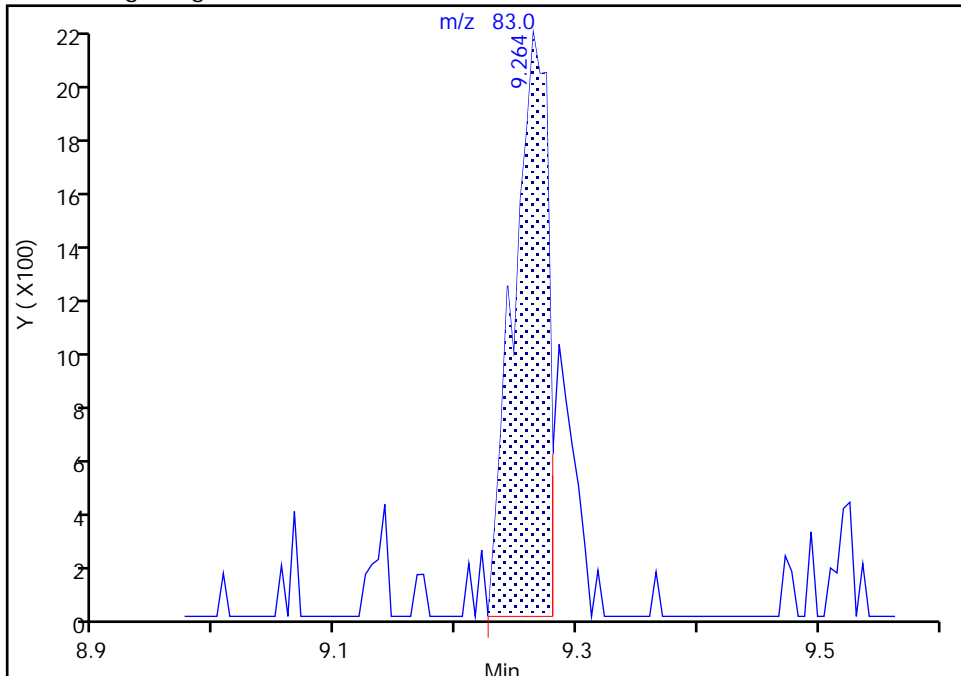
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

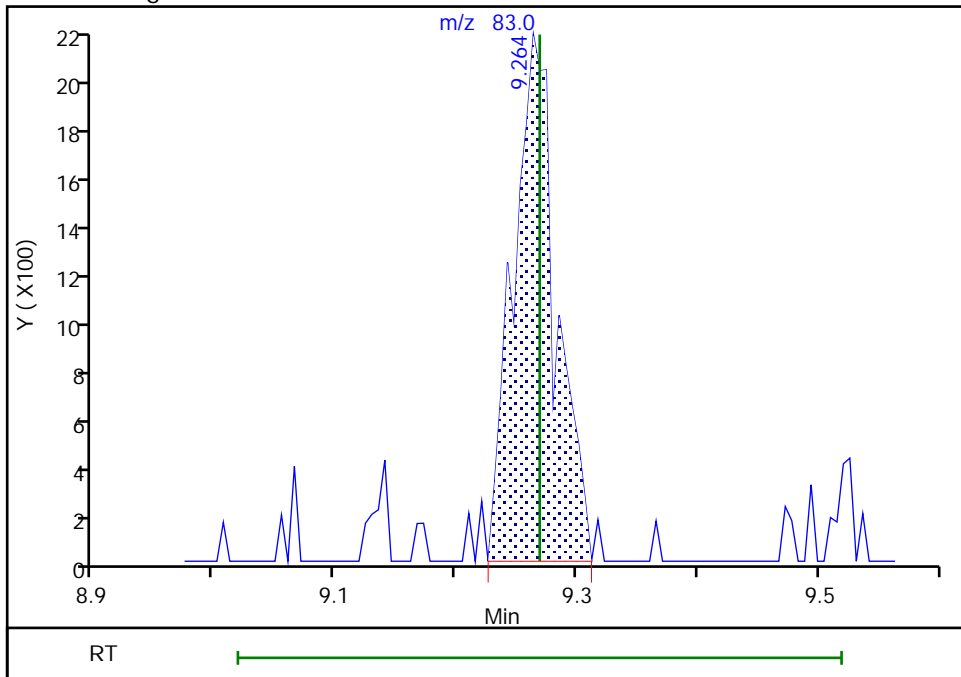
RT: 9.26  
Area: 4177  
Amount: 0.034566  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.26  
Area: 5179  
Amount: 0.042857  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:10:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

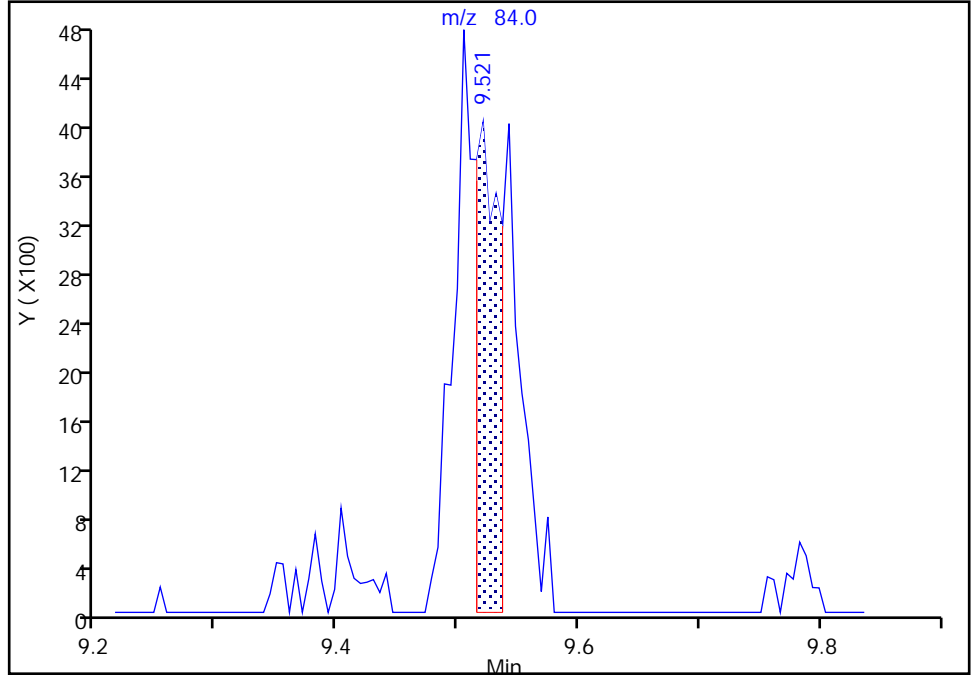
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

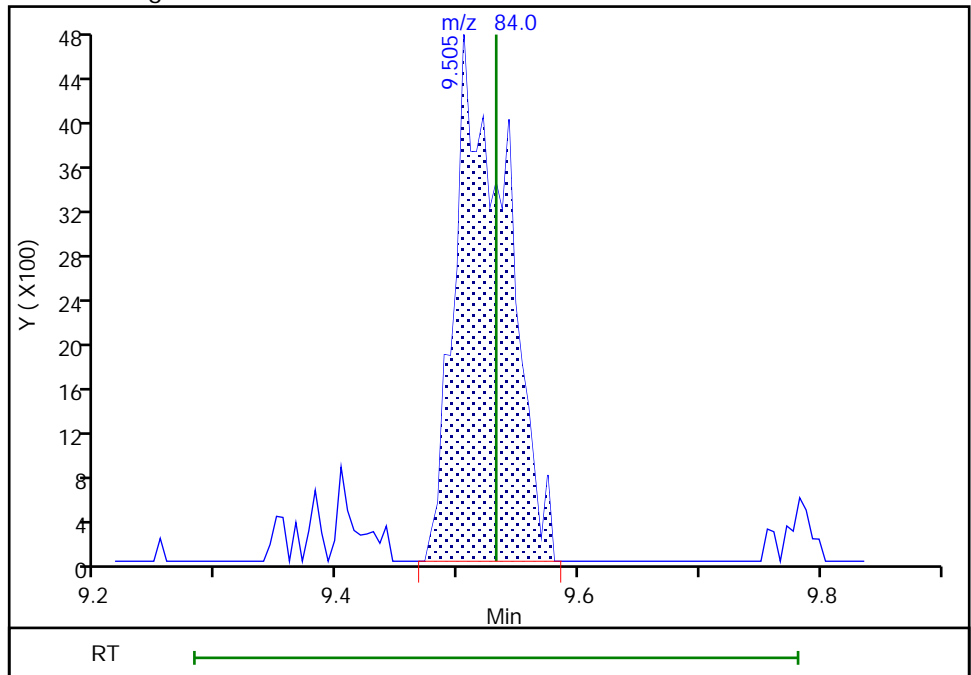
RT: 9.52  
Area: 5543  
Amount: 0.108508  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.50  
Area: 14098  
Amount: 0.275977  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:33:56  
Audit Action: Manually Integrated

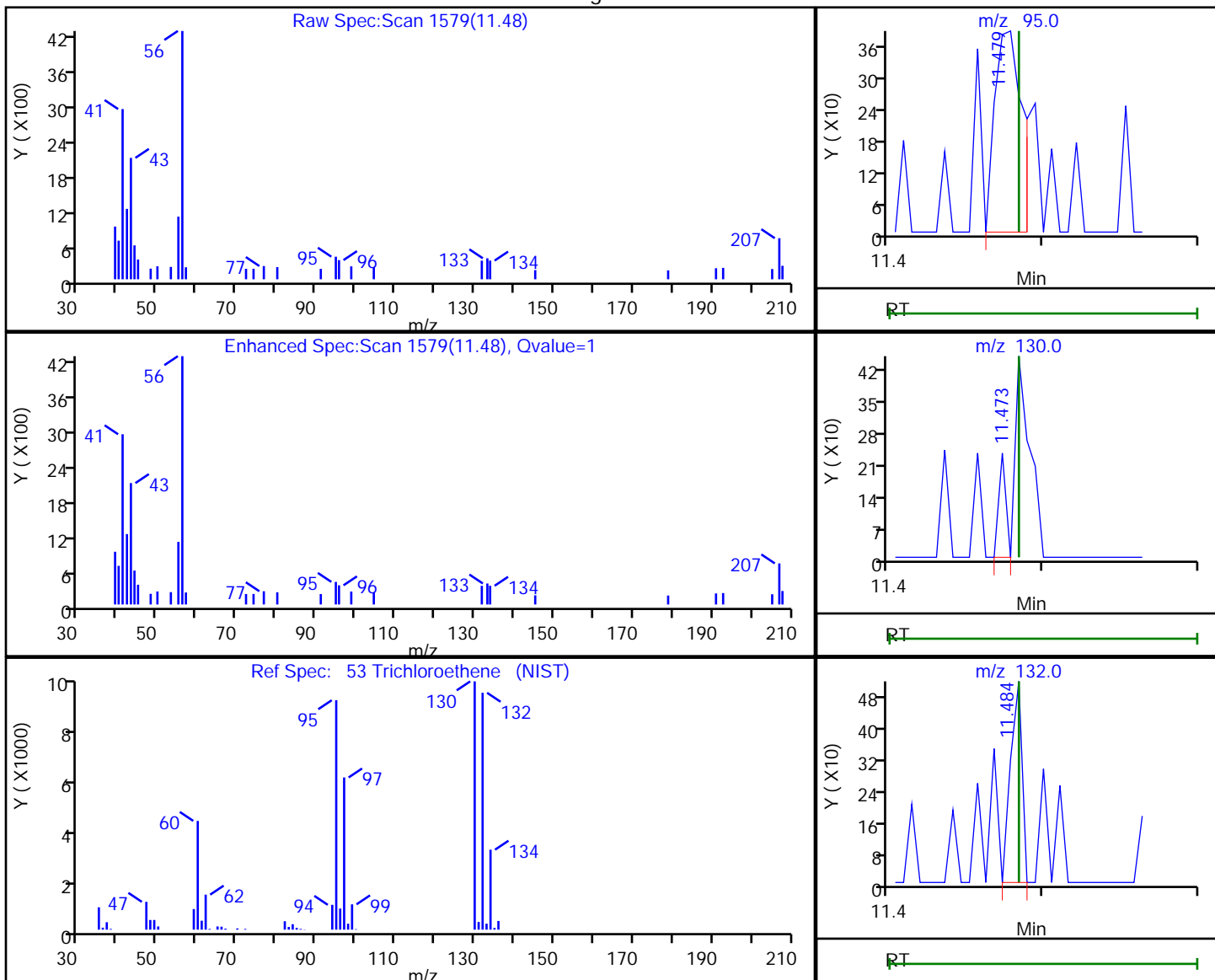
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.48 | 95.00  | 476      | 0.006138 |
| 11.47 | 130.00 | 75       |          |
| 11.48 | 132.00 | 268      |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:11  
 Audit Action: Marked Compound Undetected

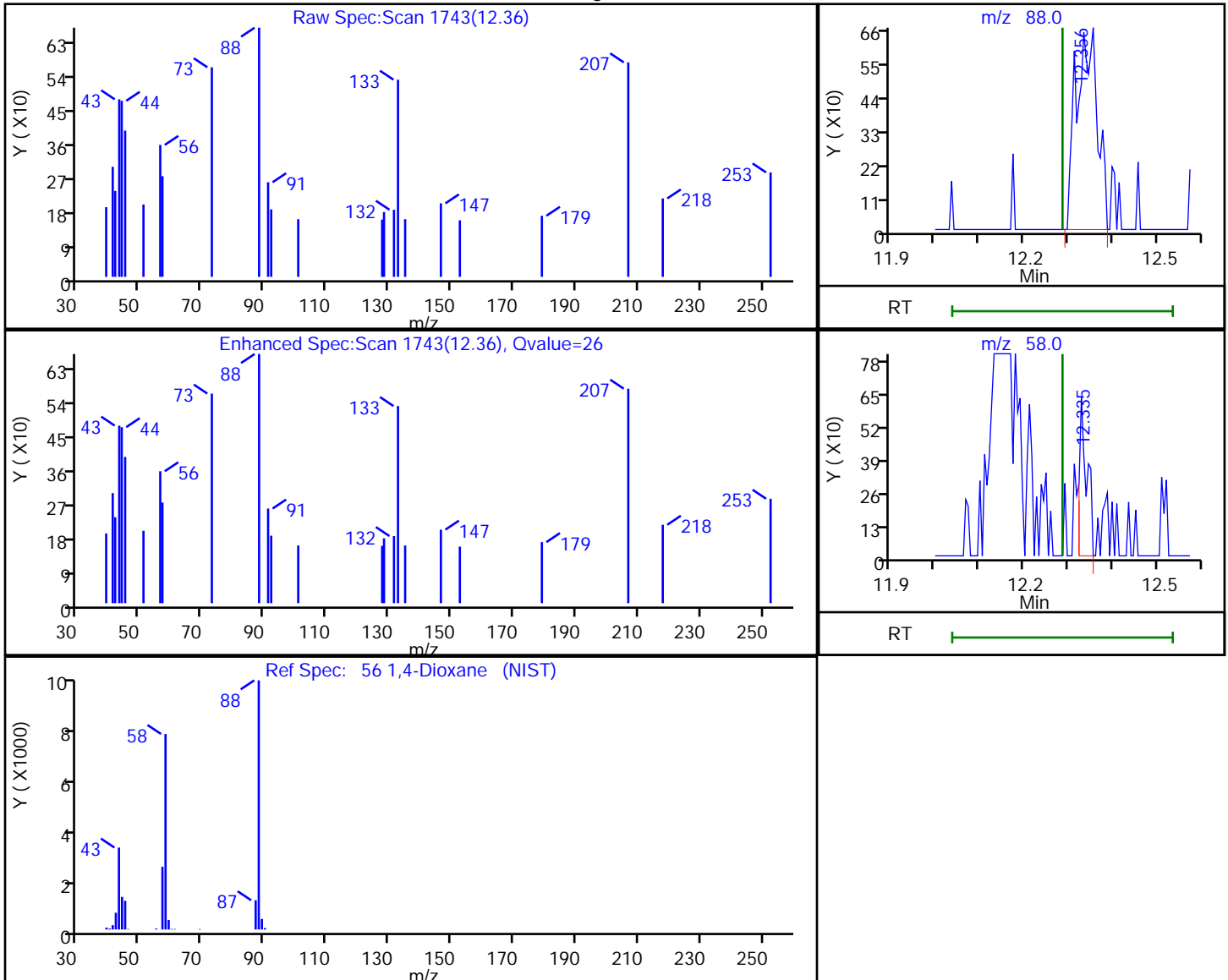
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.36 | 88.00 | 2192     | 0.100621 |
| 12.33 | 58.00 | 730      |          |

Reviewer: bunmaa, 07-Dec-2018 09:11:16

Audit Action: Marked Compound Undetected

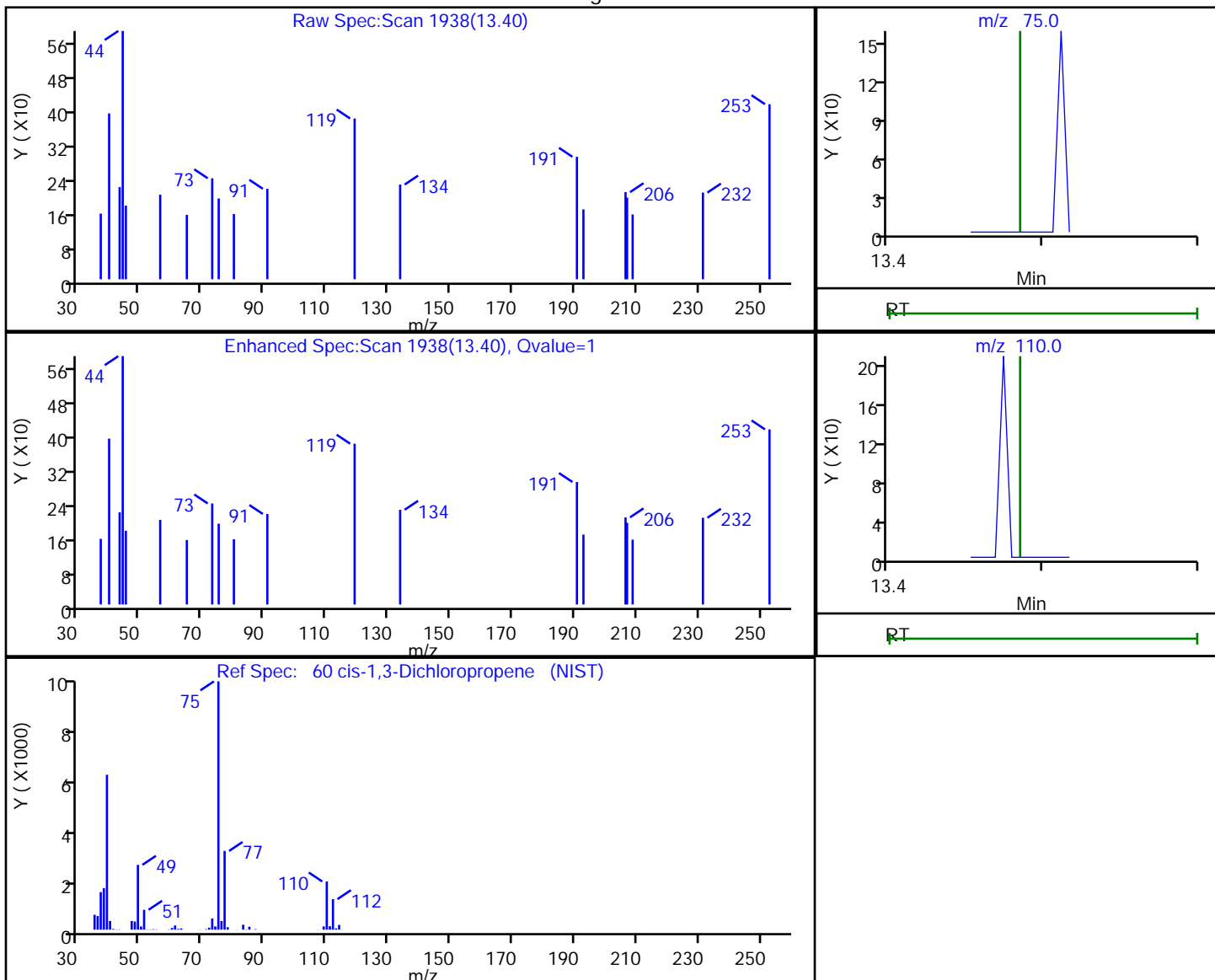
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.40 | 75.00  | 62       | 0.000831 |
| 13.48 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:22  
Audit Action: Marked Compound Undetected

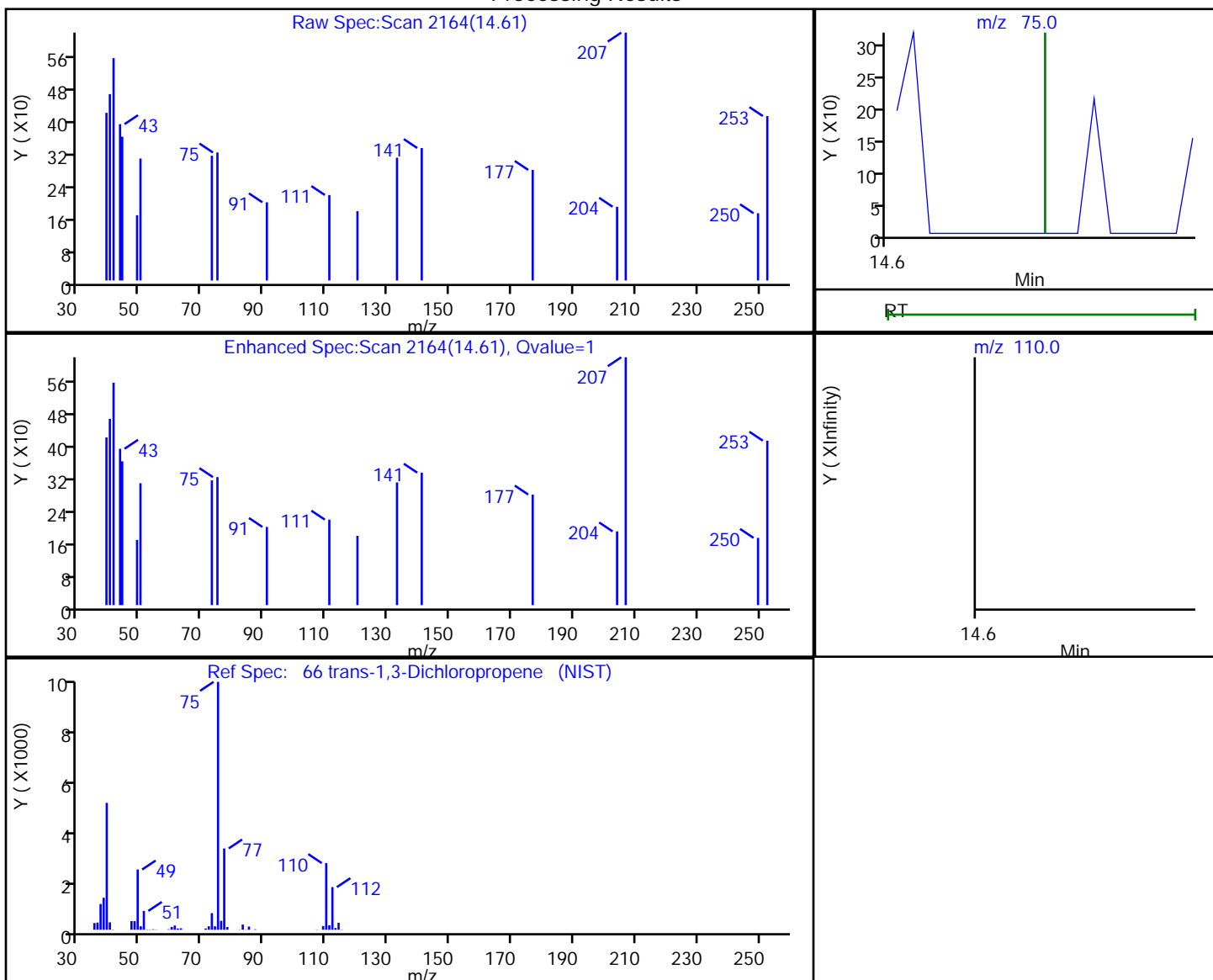
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.61 | 75.00  | 163      | 0.002223 |
| 14.65 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:25

Audit Action: Marked Compound Undetected

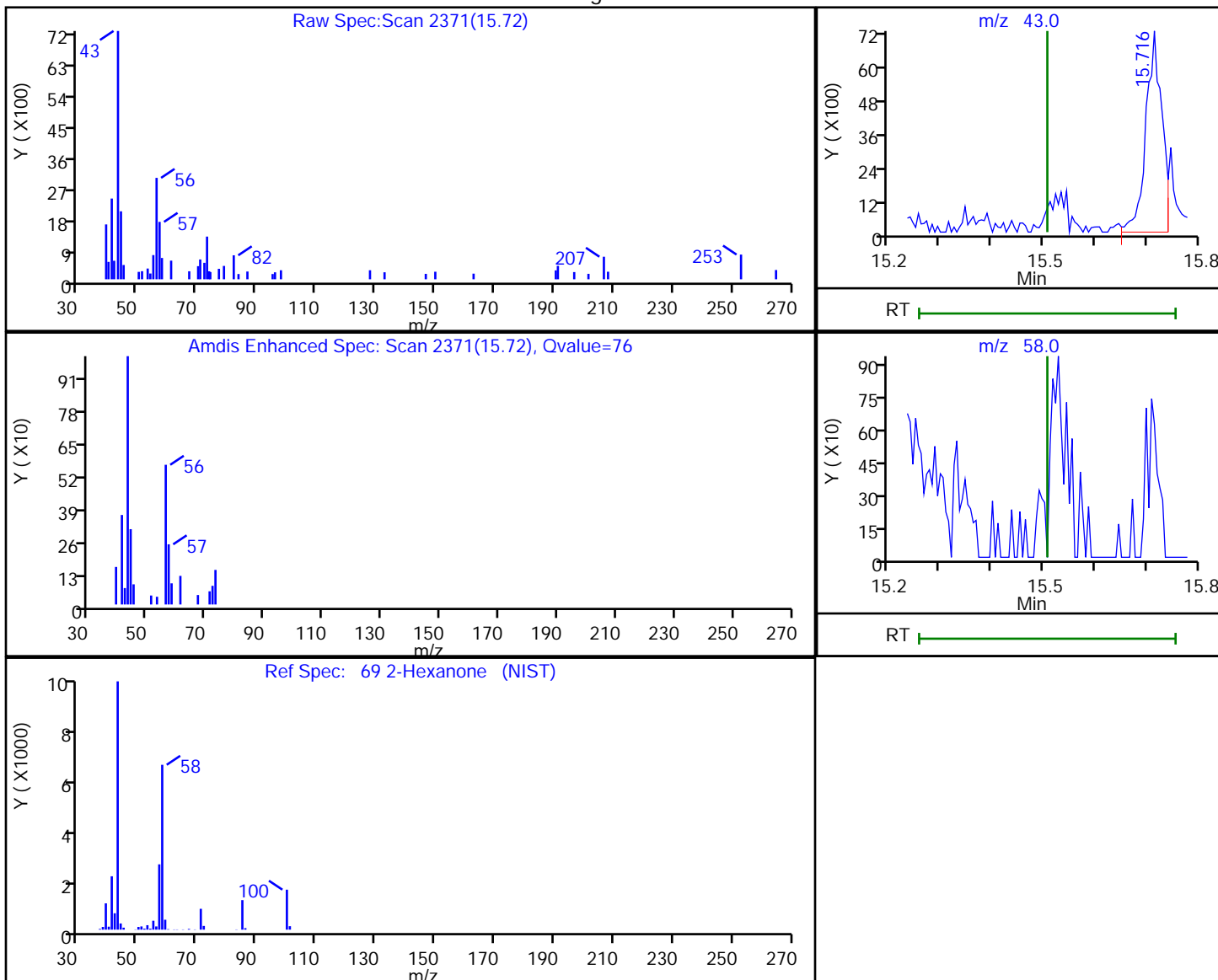
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.72 | 43.00 | 15737    | 0.195506 |
| 15.51 | 58.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:11:39  
Audit Action: Marked Compound Undetected

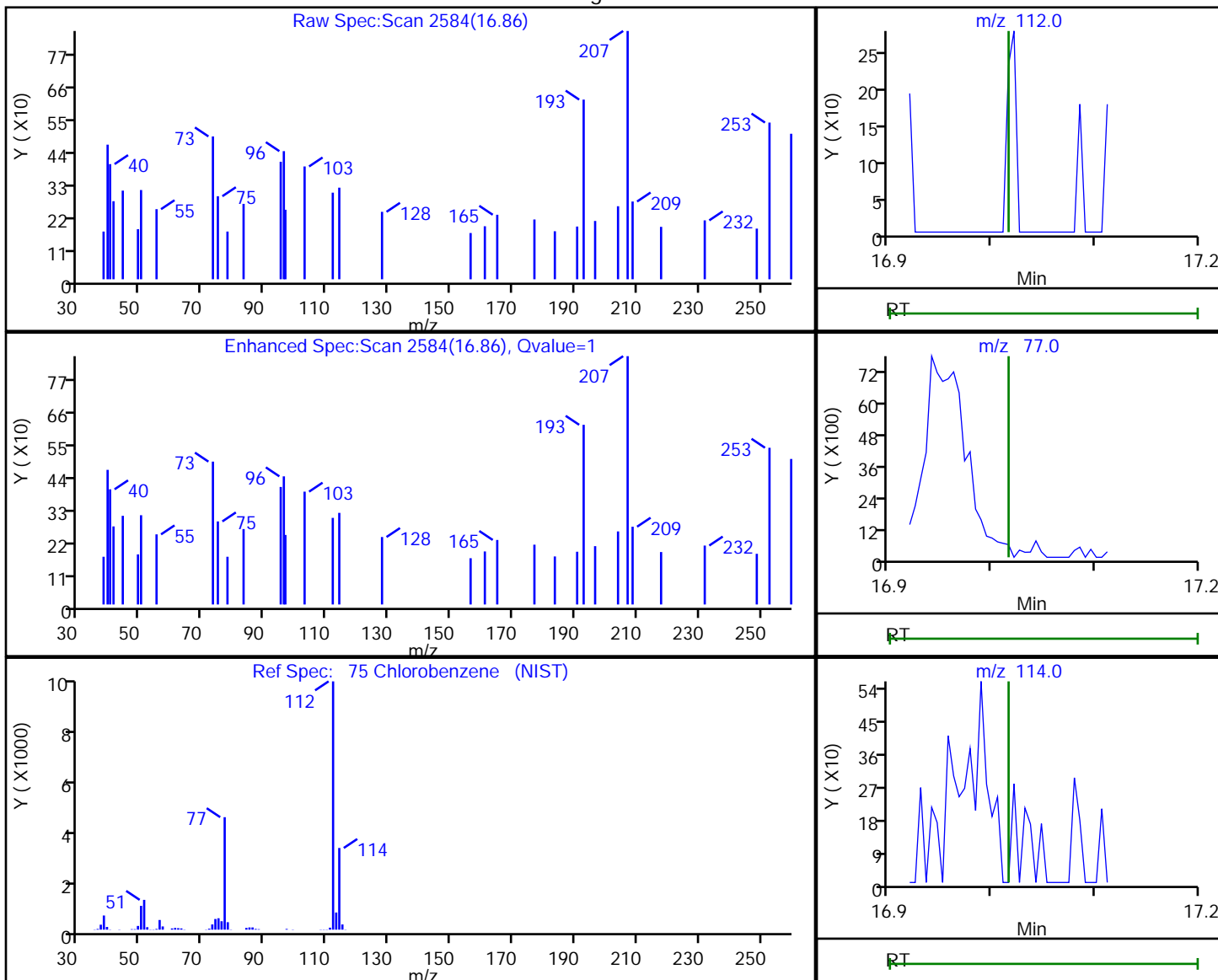
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 16.86 | 112.00 | 171      | 0.001214 |
| 16.86 | 114.00 | 100      |          |
| 17.02 | 77.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

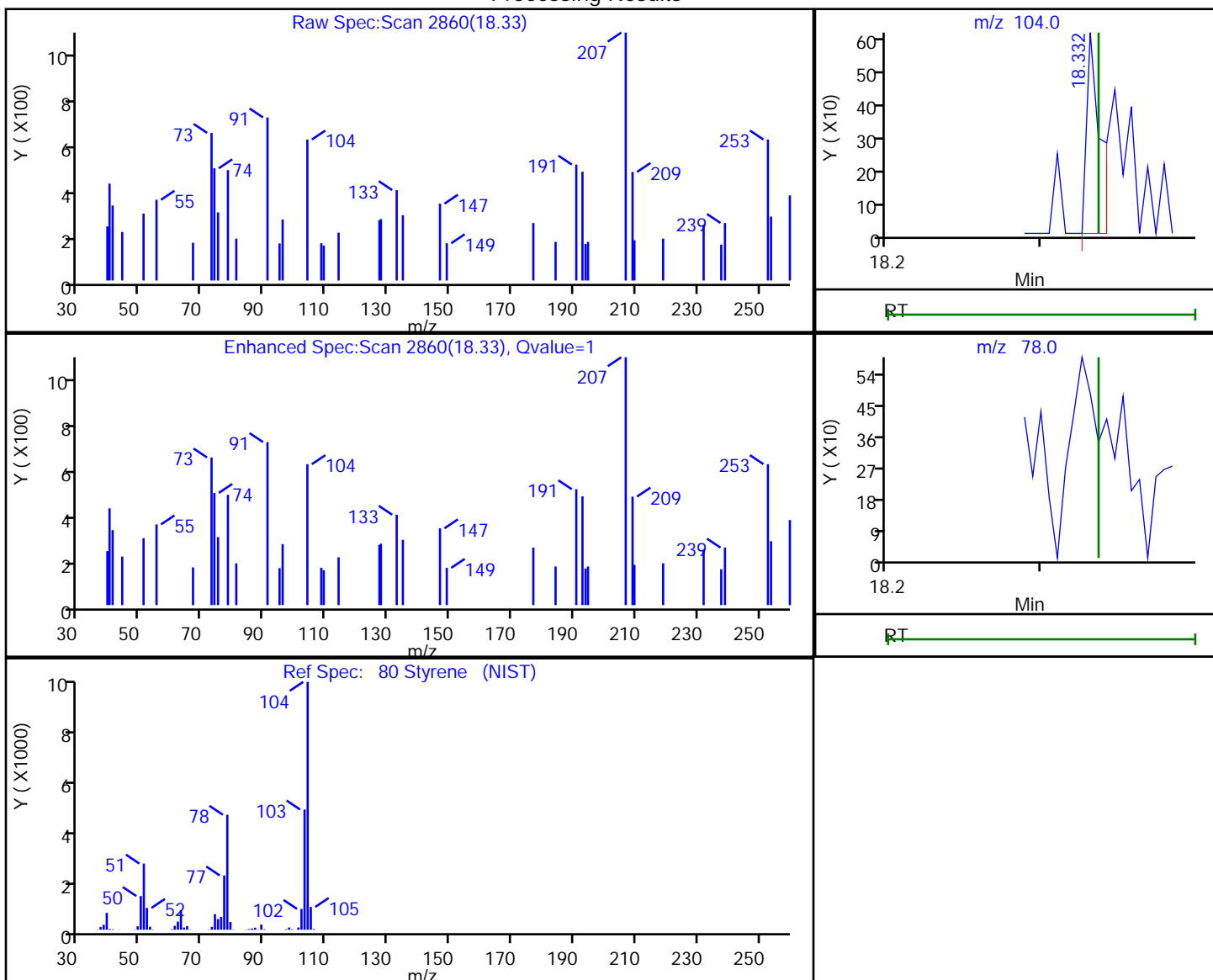


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.33 | 104.00 | 379      | 0.003116 |
| 18.34 | 78.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:31  
 Audit Action: Marked Compound Undetected

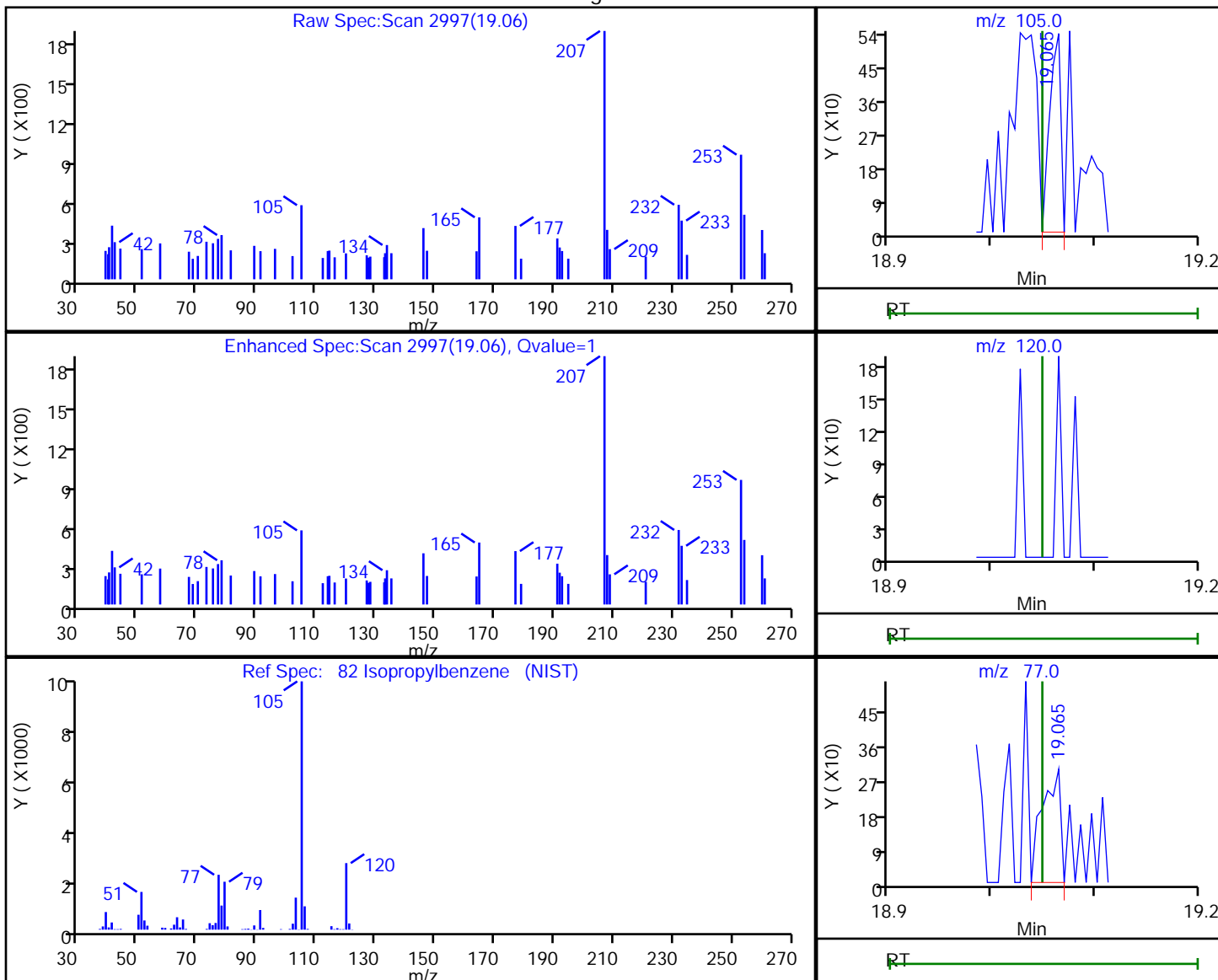
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.06 | 105.00 | 402      | 0.001730 |
| 19.06 | 77.00  | 361      |          |
| 19.05 | 120.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:33  
 Audit Action: Marked Compound Undetected

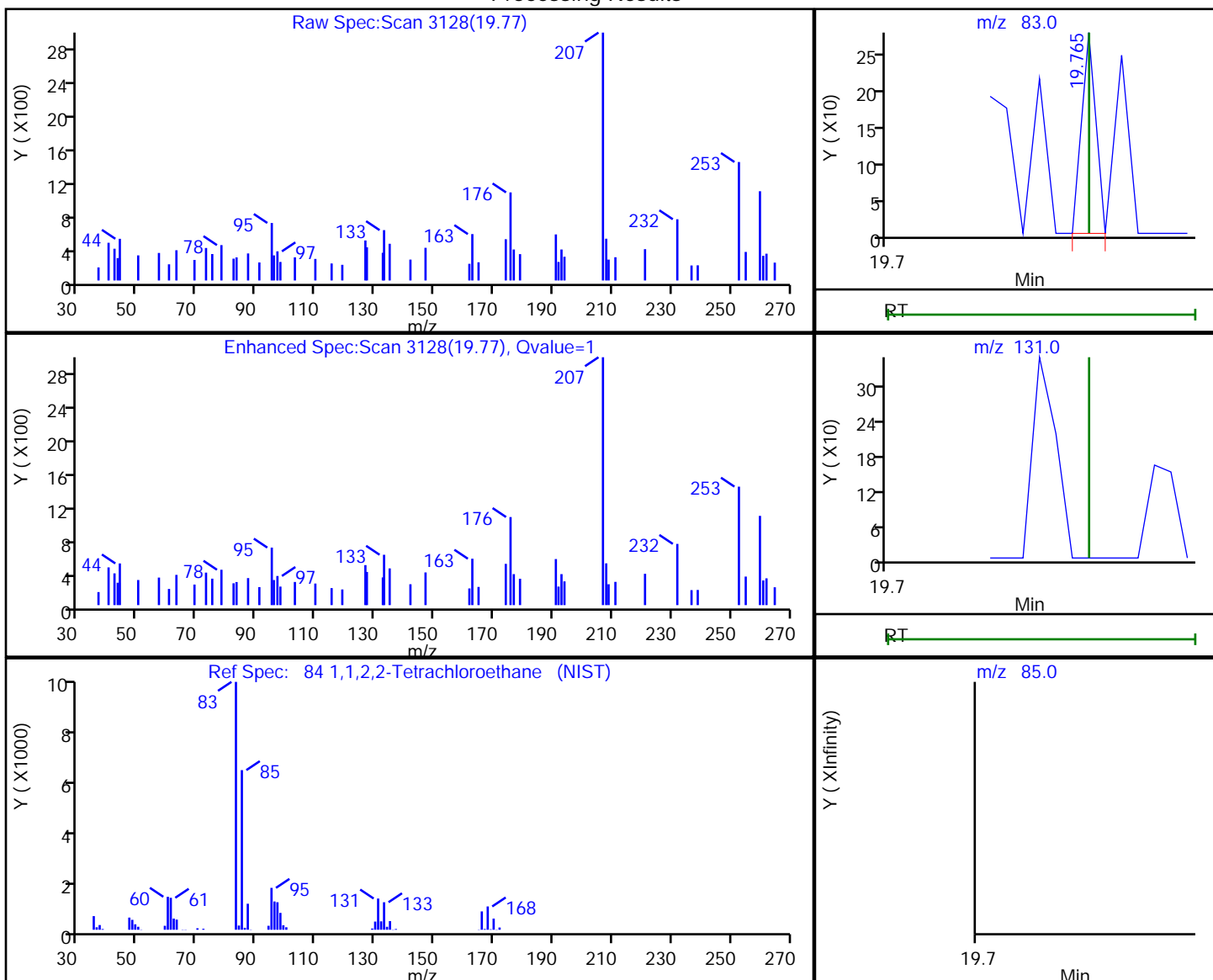
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.77 | 83.00  | 88       | 0.000694 |
| 19.77 | 131.00 | 0        |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:34:34  
 Audit Action: Marked Compound Undetected

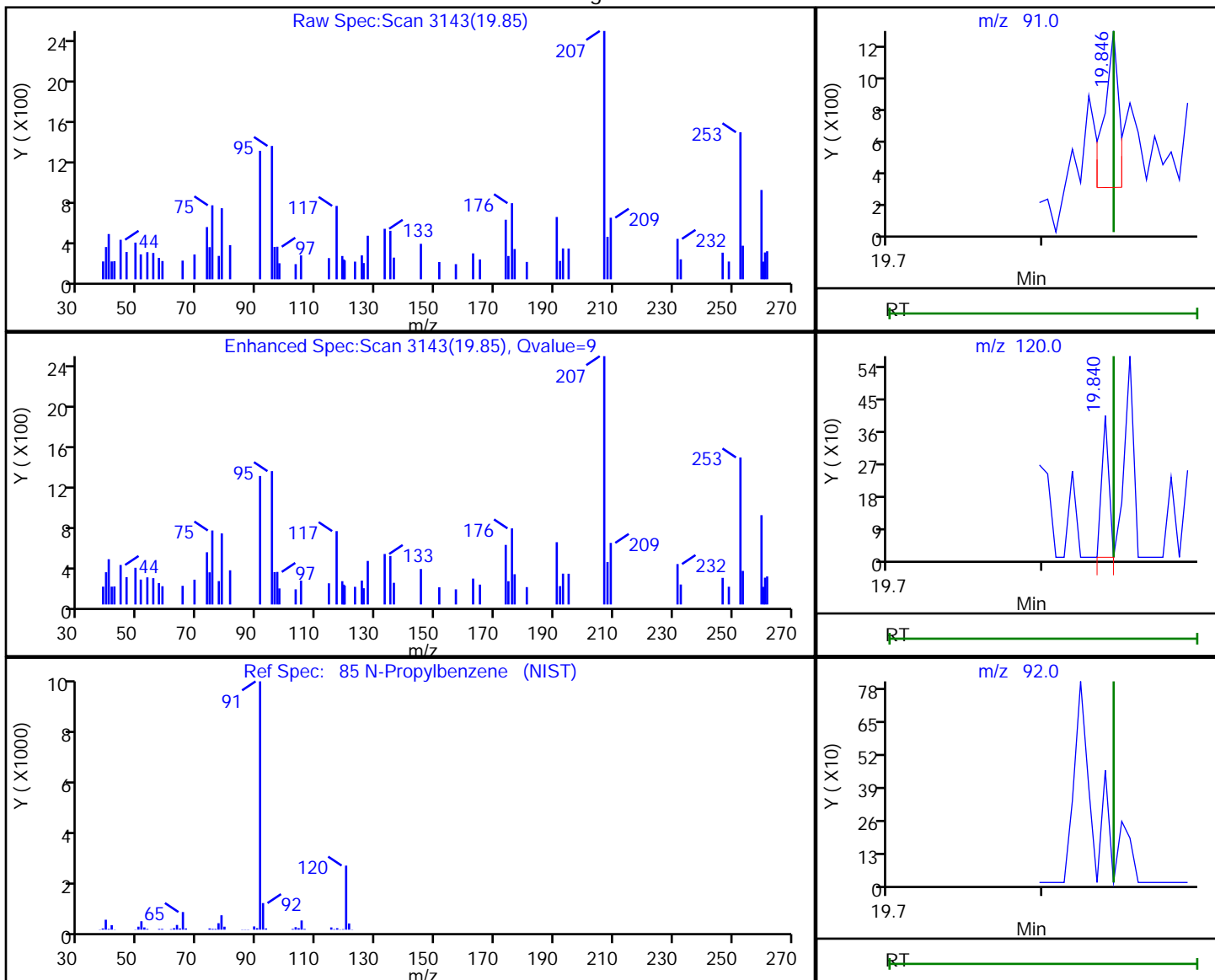
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.85 | 91.00  | 664      | 0.002400 |
| 19.84 | 120.00 | 127      |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:45  
 Audit Action: Marked Compound Undetected

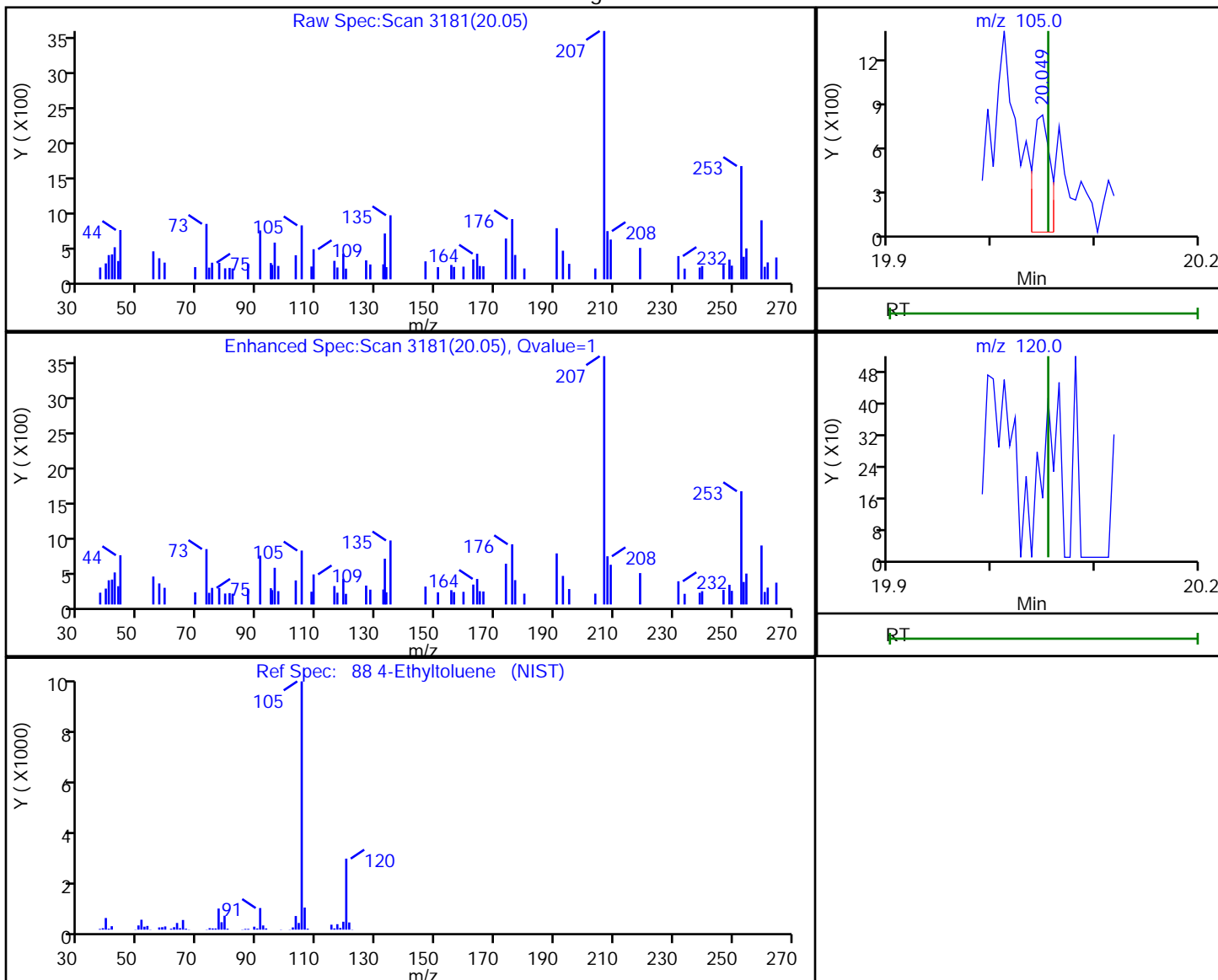
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.05 | 105.00 | 892      | 0.003788 |
| 20.05 | 120.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:51

Audit Action: Marked Compound Undetected

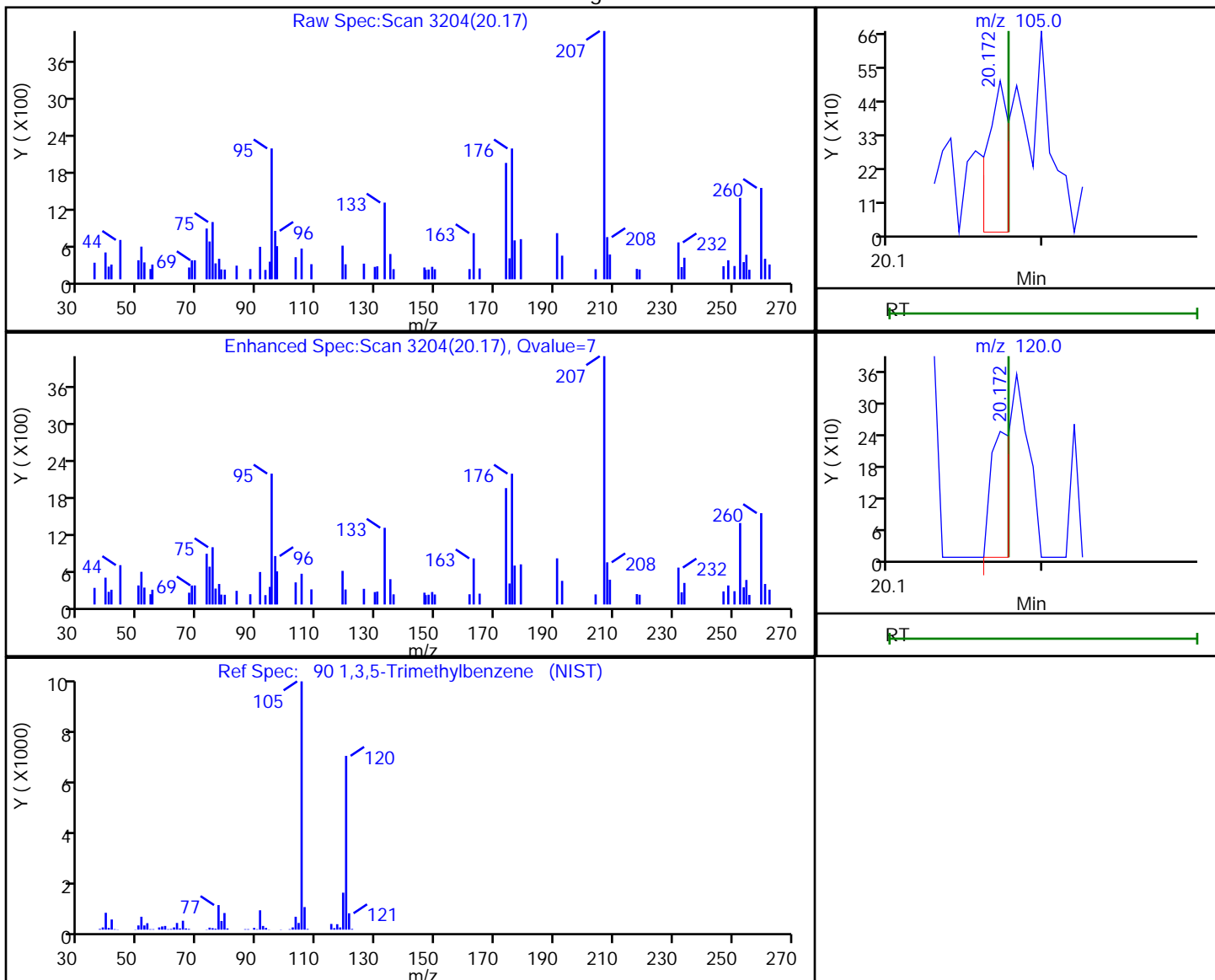
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.17 | 105.00 | 469      | 0.002328 |
| 20.17 | 120.00 | 219      |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:54

Audit Action: Marked Compound Undetected

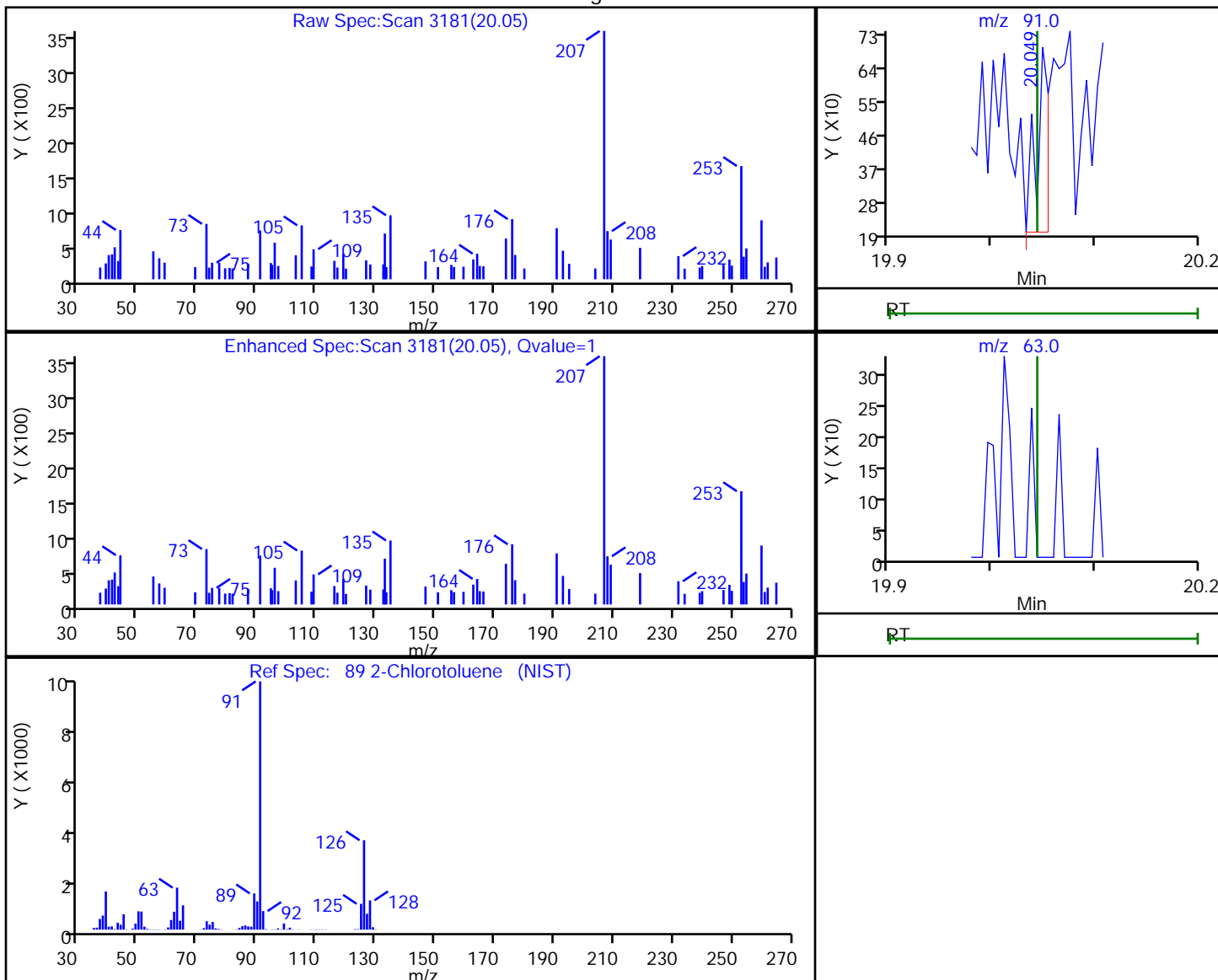
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.05 | 91.00 | 398      | 0.001905 |
| 20.04 | 63.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:48

Audit Action: Marked Compound Undetected

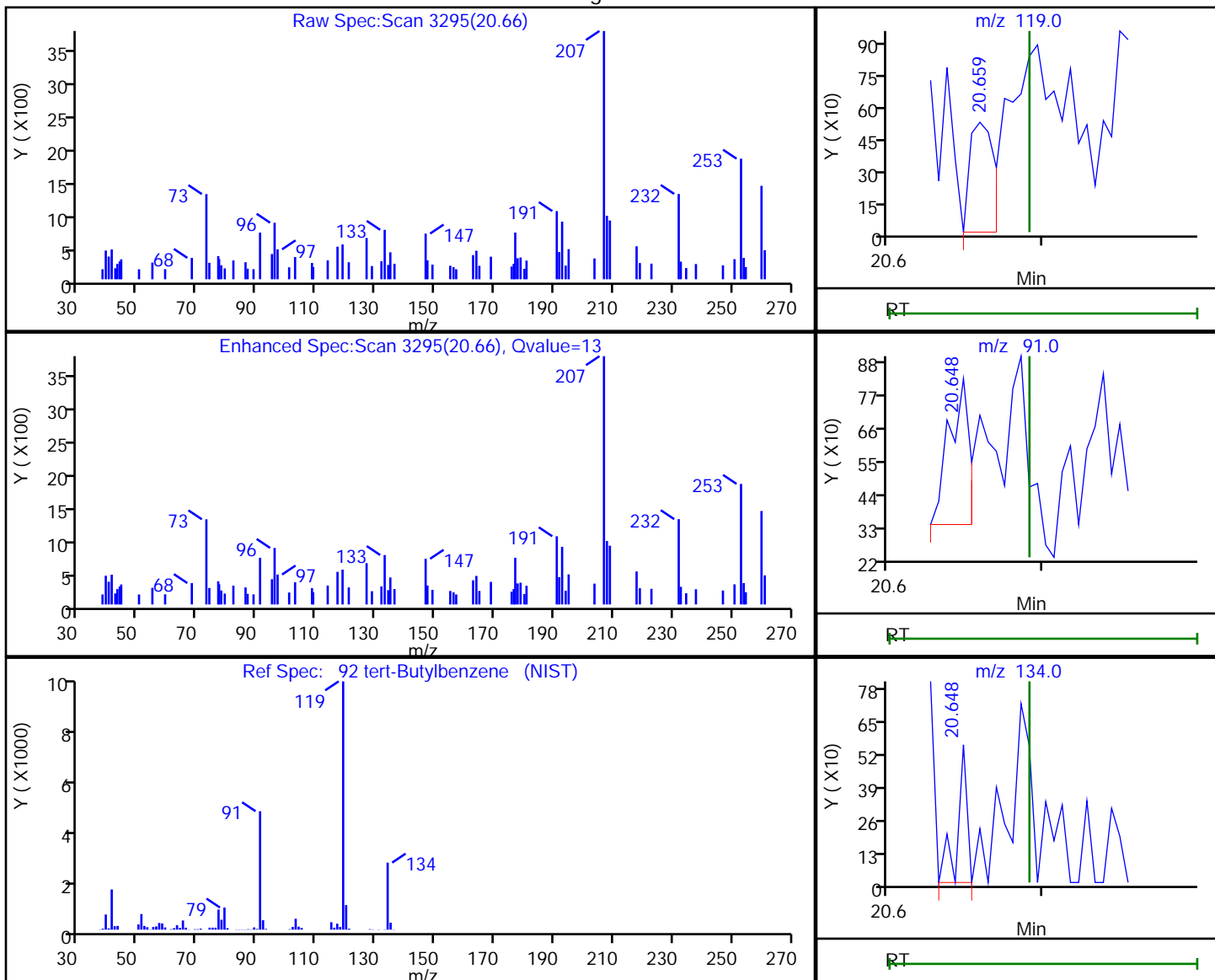
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.66 | 119.00 | 568      | 0.003014 |
| 20.65 | 91.00  | 447      |          |
| 20.65 | 134.00 | 238      |          |

Reviewer: bunmaa, 07-Dec-2018 09:12:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

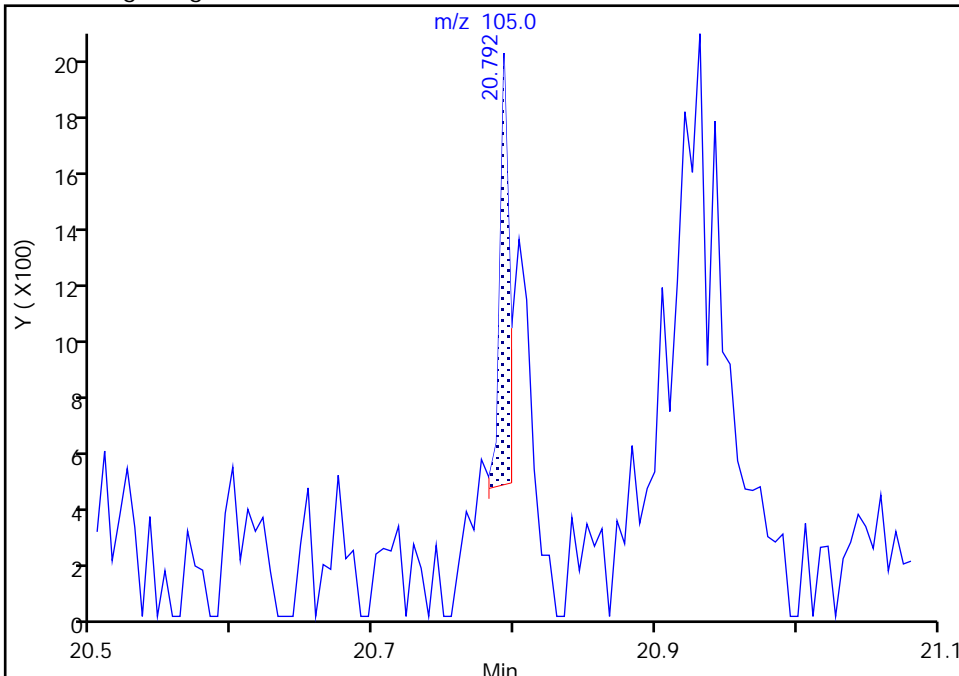
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

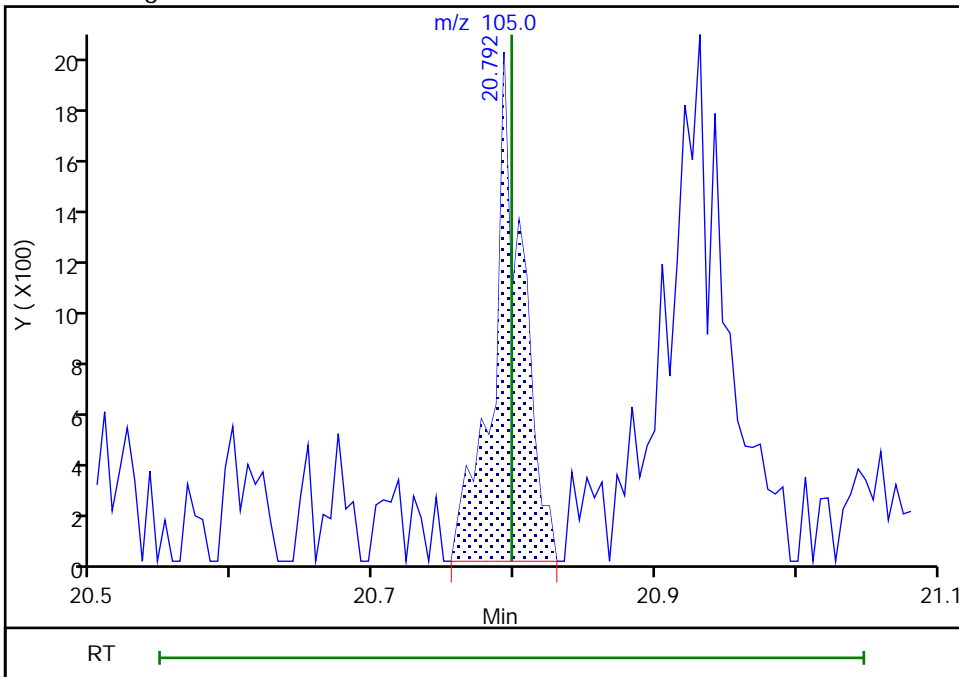
RT: 20.79  
Area: 731  
Amount: 0.003677  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.79  
Area: 2882  
Amount: 0.014498  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:13:05  
Audit Action: Manually Integrated

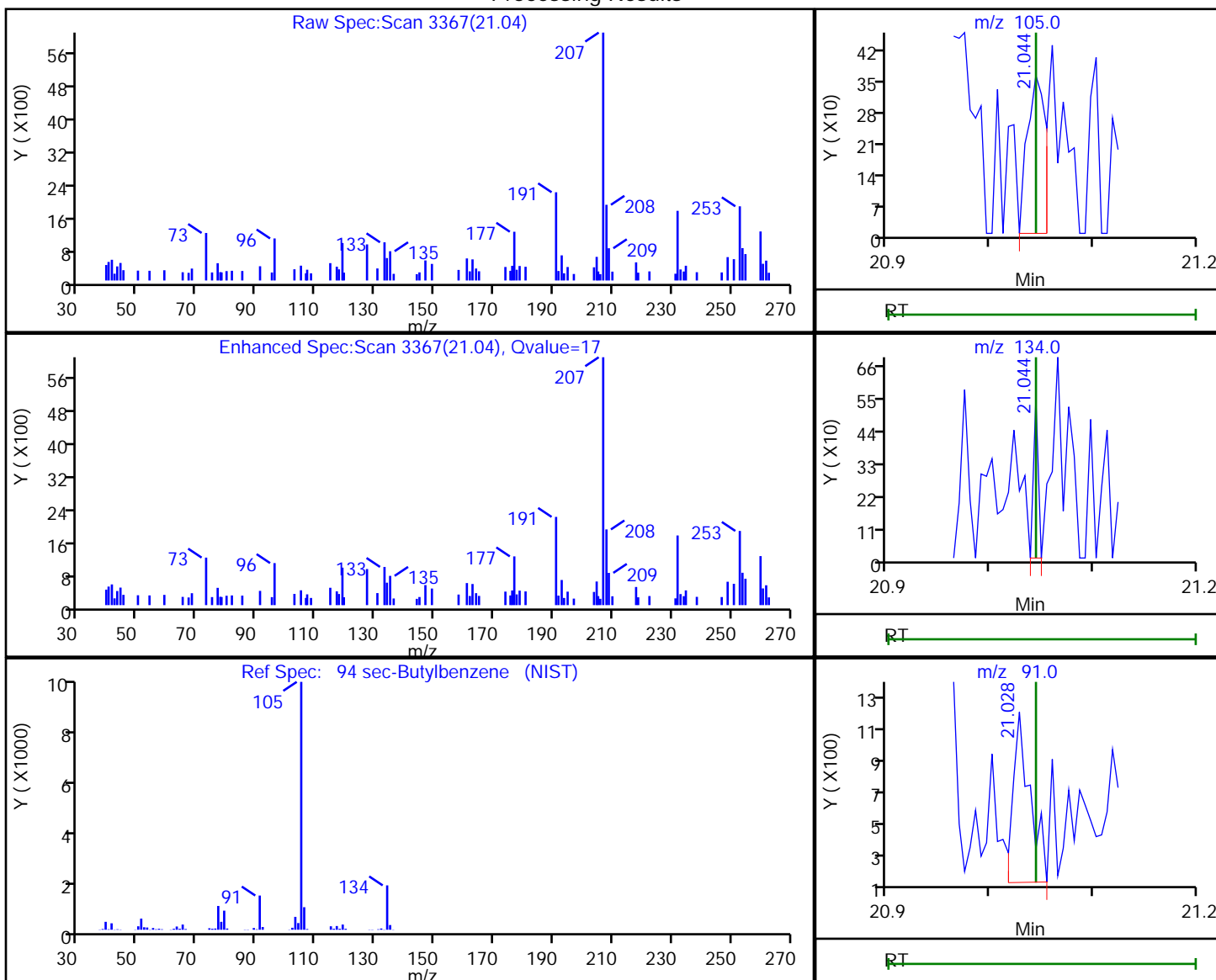
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.04 | 105.00 | 446      | 0.001596 |
| 21.04 | 134.00 | 176      |          |
| 21.03 | 91.00  | 1107     |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:24

Audit Action: Marked Compound Undetected

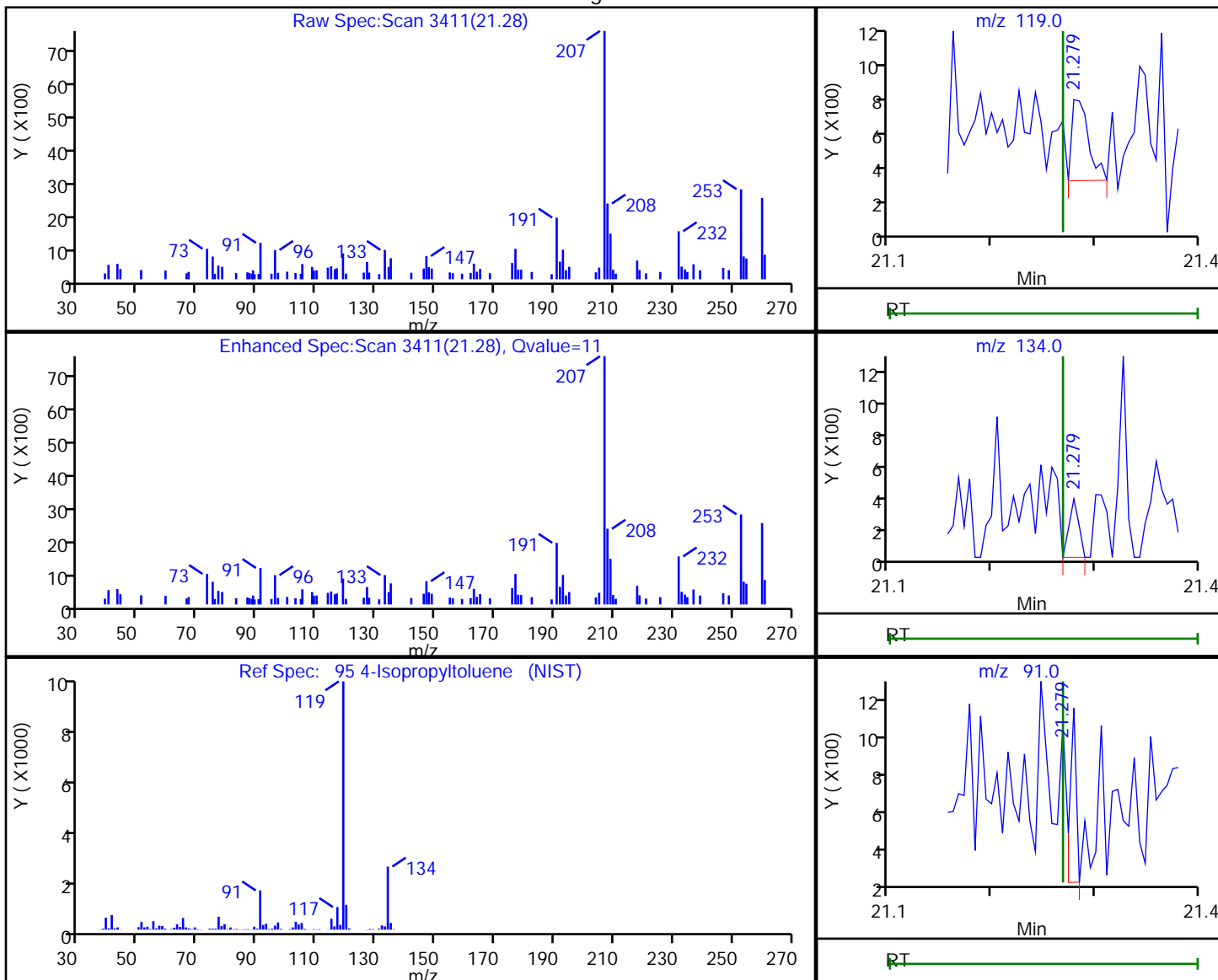
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.28 | 119.00 | 544      | 0.002271 |
| 21.28 | 134.00 | 244      |          |
| 21.28 | 91.00  | 359      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:27

Audit Action: Marked Compound Undetected

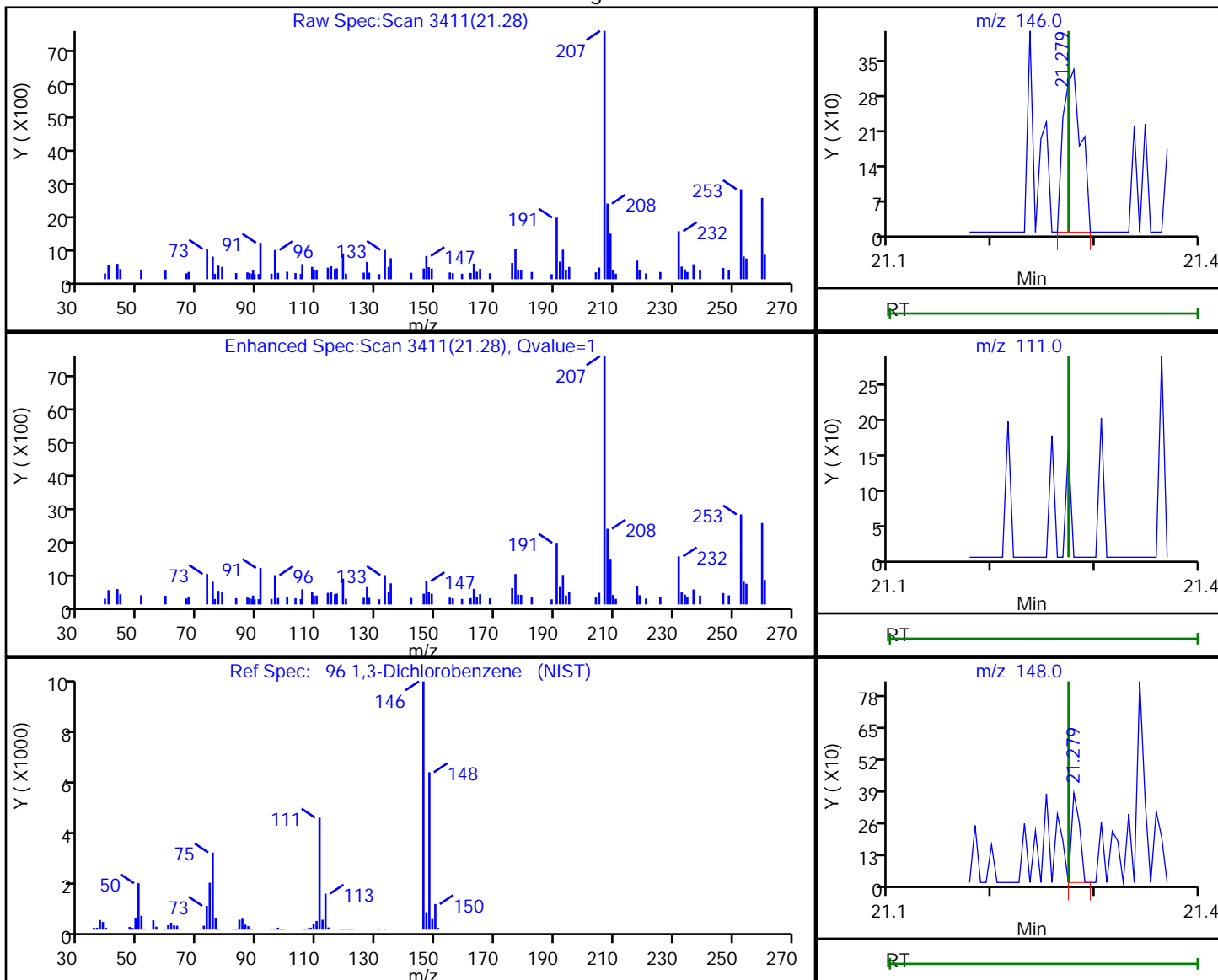
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.28 | 146.00 | 394      | 0.002446 |
| 21.28 | 148.00 | 198      |          |
| 21.27 | 111.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:29

Audit Action: Marked Compound Undetected

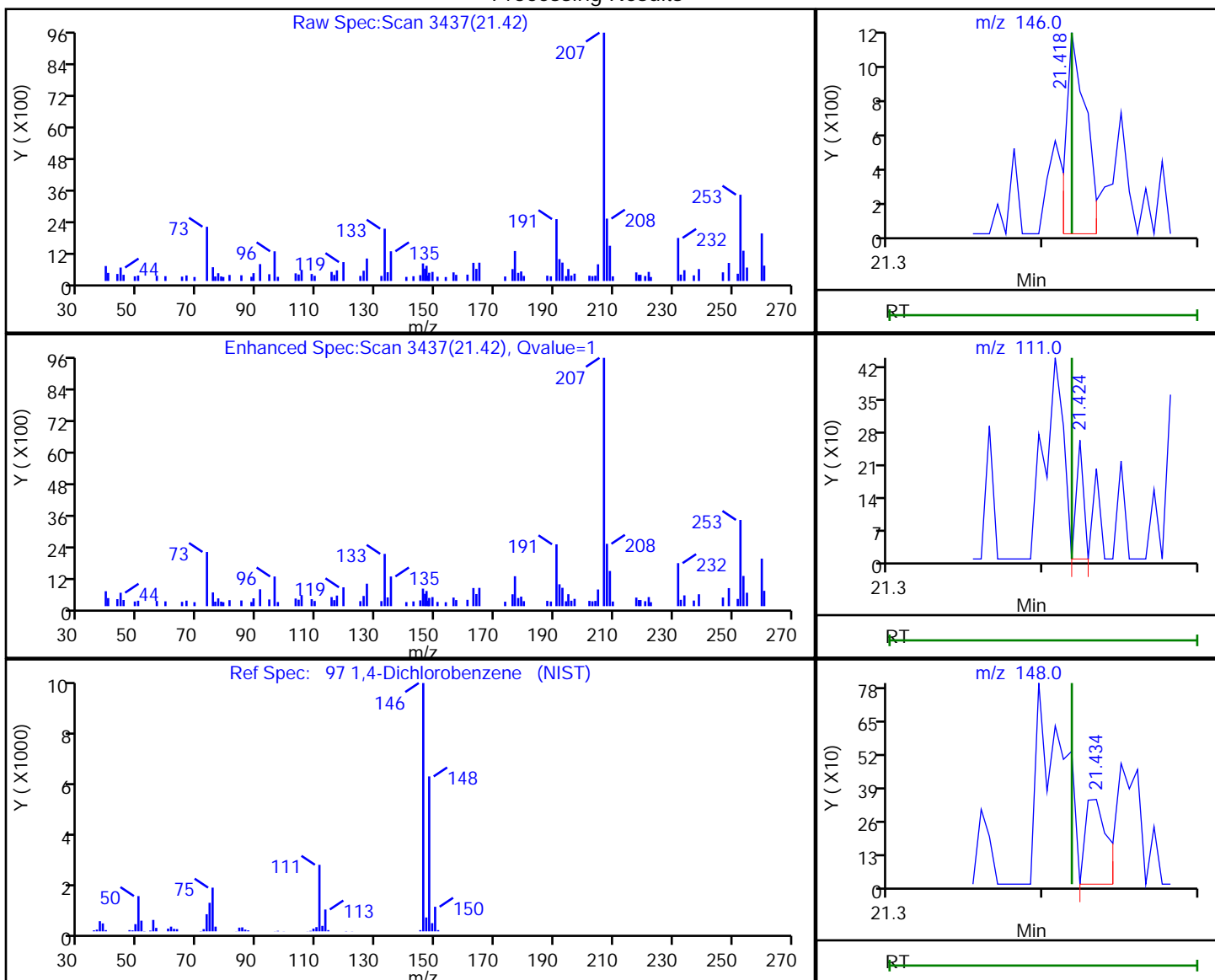
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 1020     | 0.006621 |
| 21.42 | 111.00 | 83       |          |
| 21.43 | 148.00 | 330      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:33

Audit Action: Marked Compound Undetected

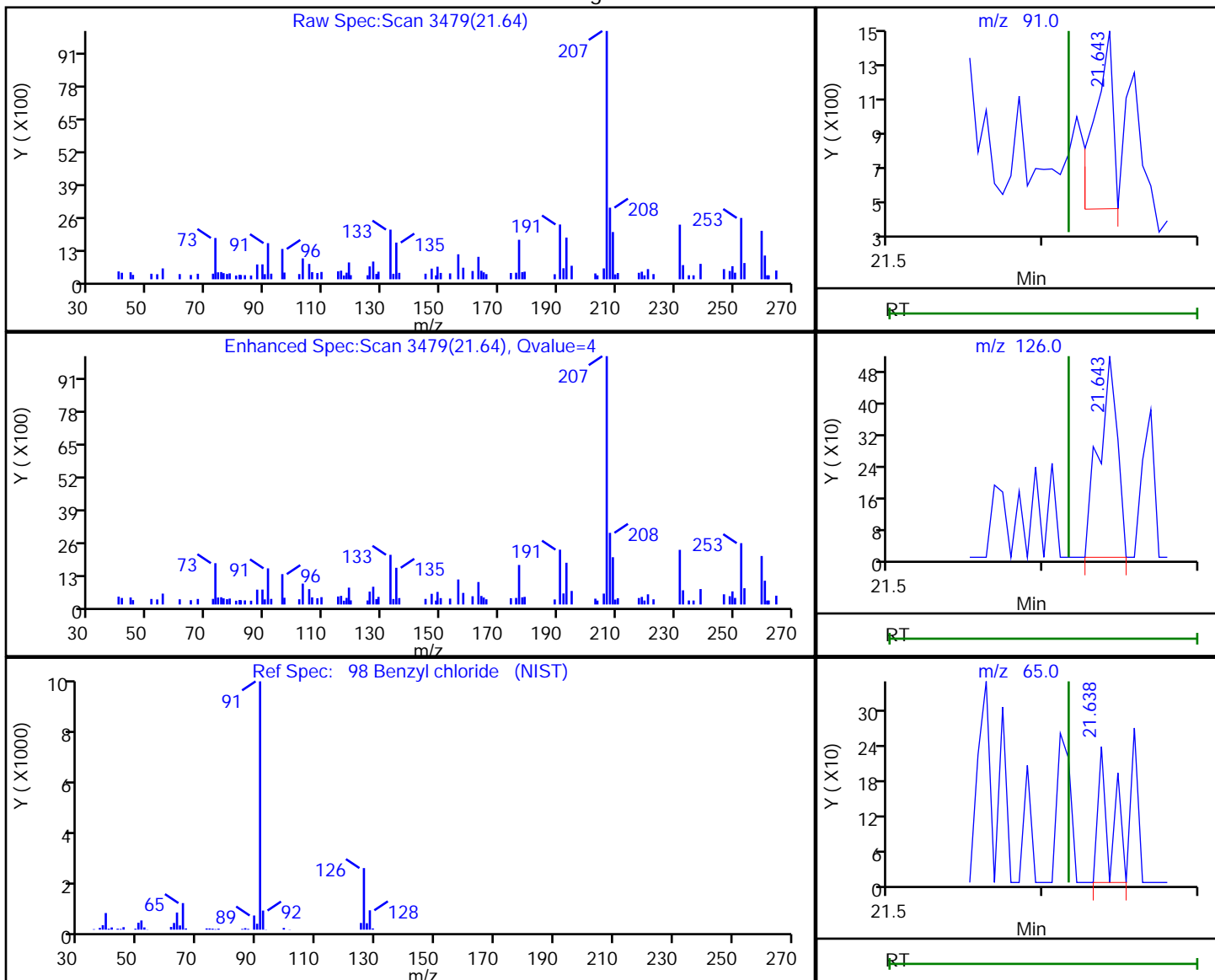
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.64 | 91.00  | 783      | 0.004117 |
| 21.64 | 126.00 | 433      |          |
| 21.64 | 65.00  | 135      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:35

Audit Action: Marked Compound Undetected

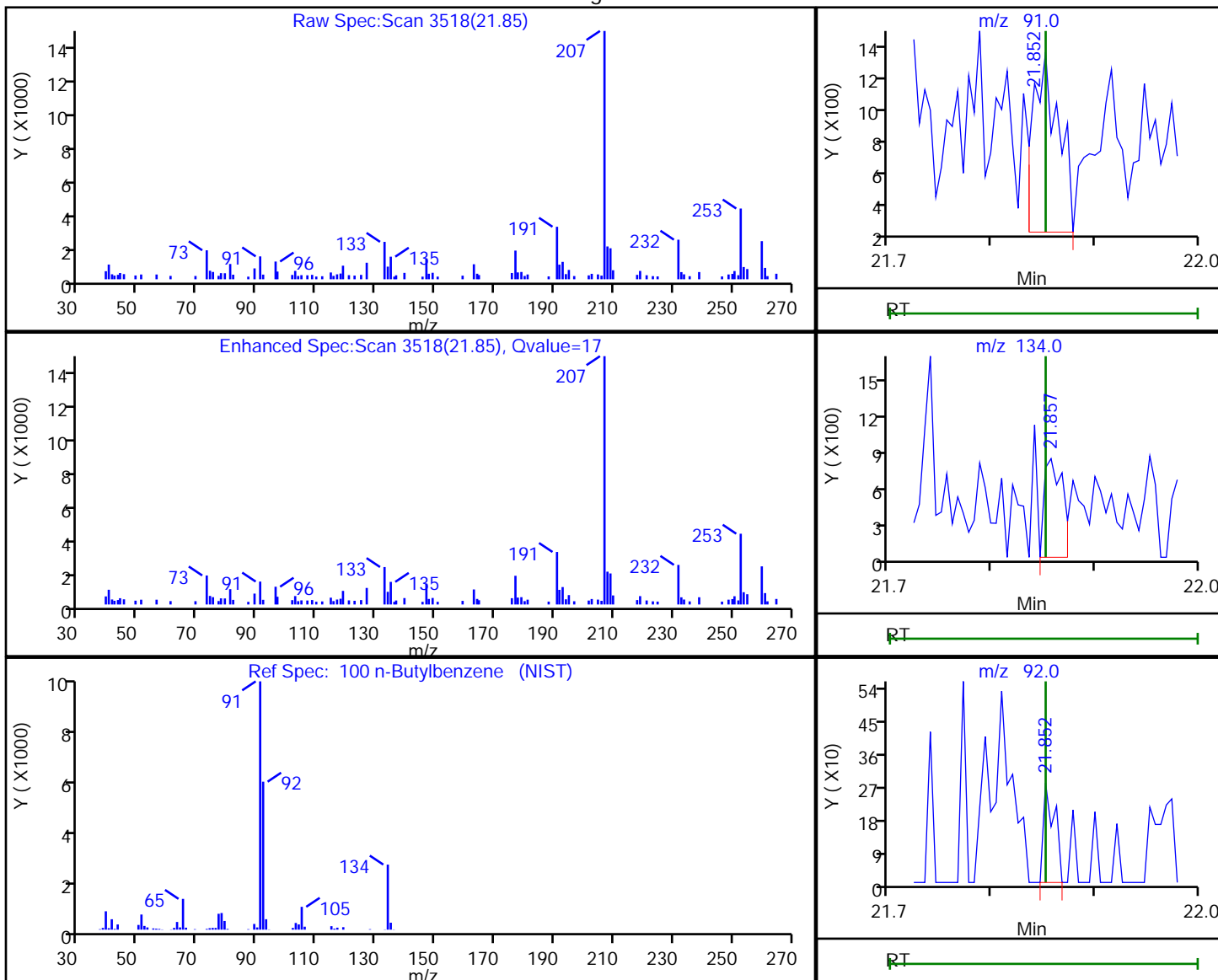
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 1826     | 0.008362 |
| 21.86 | 134.00 | 1023     |          |
| 21.85 | 92.00  | 206      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:37

Audit Action: Marked Compound Undetected

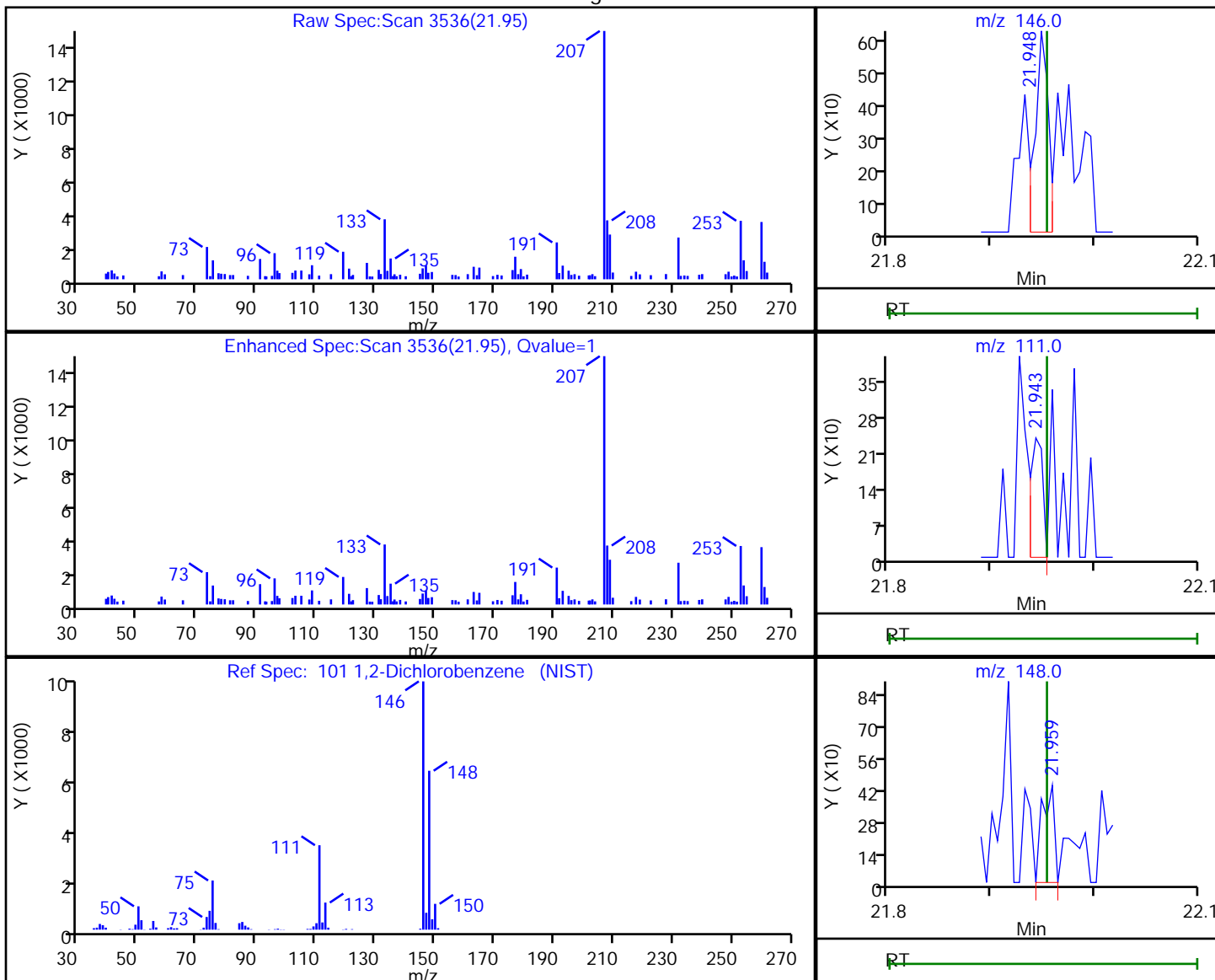
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 567      | 0.003830 |
| 21.94 | 111.00 | 192      |          |
| 21.96 | 148.00 | 353      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

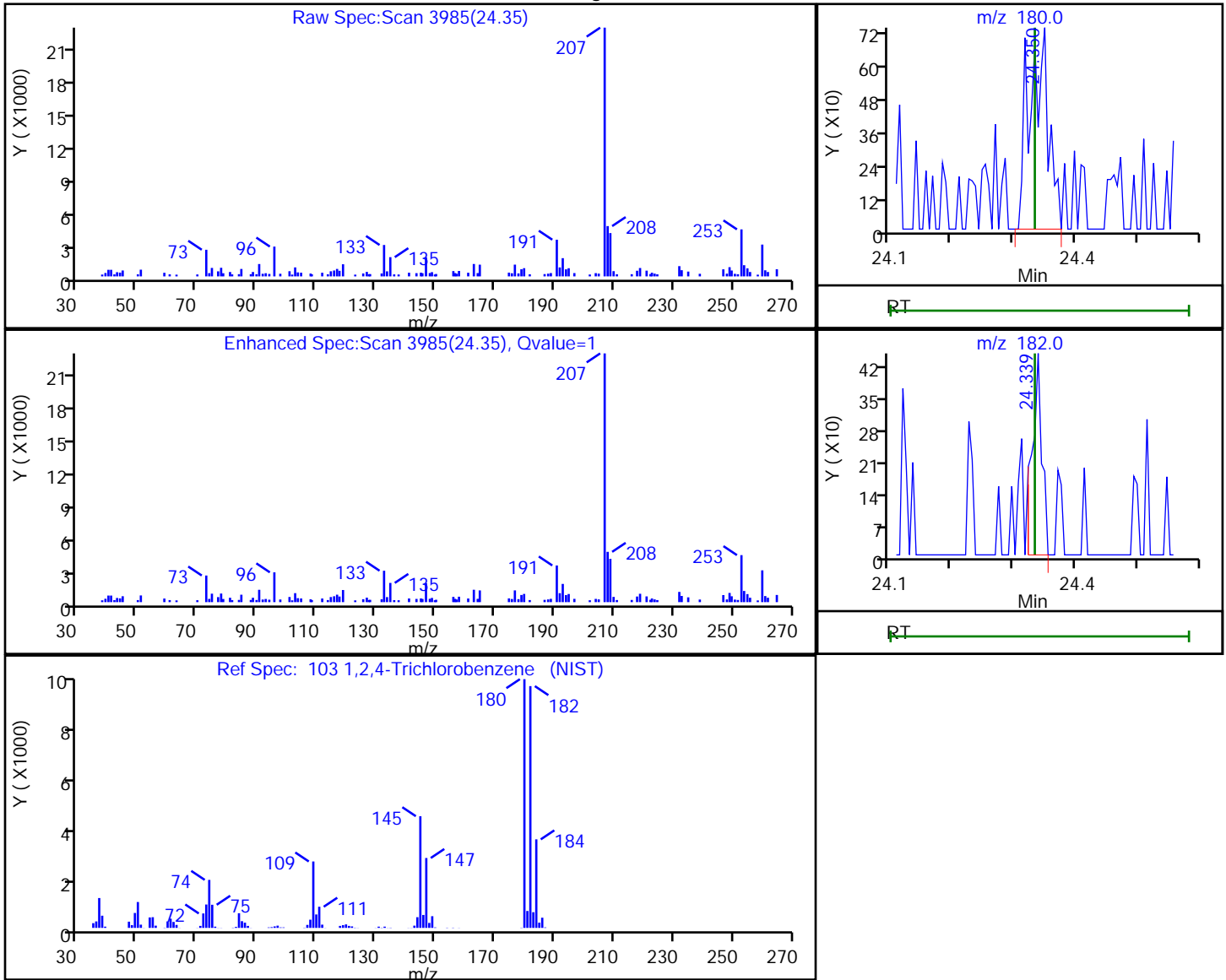


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
 Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
 Client ID: IA-4\_20181120  
 Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.35 | 180.00 | 1580     | 0.014198 |
| 24.34 | 182.00 | 490      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:45  
 Audit Action: Marked Compound Undetected

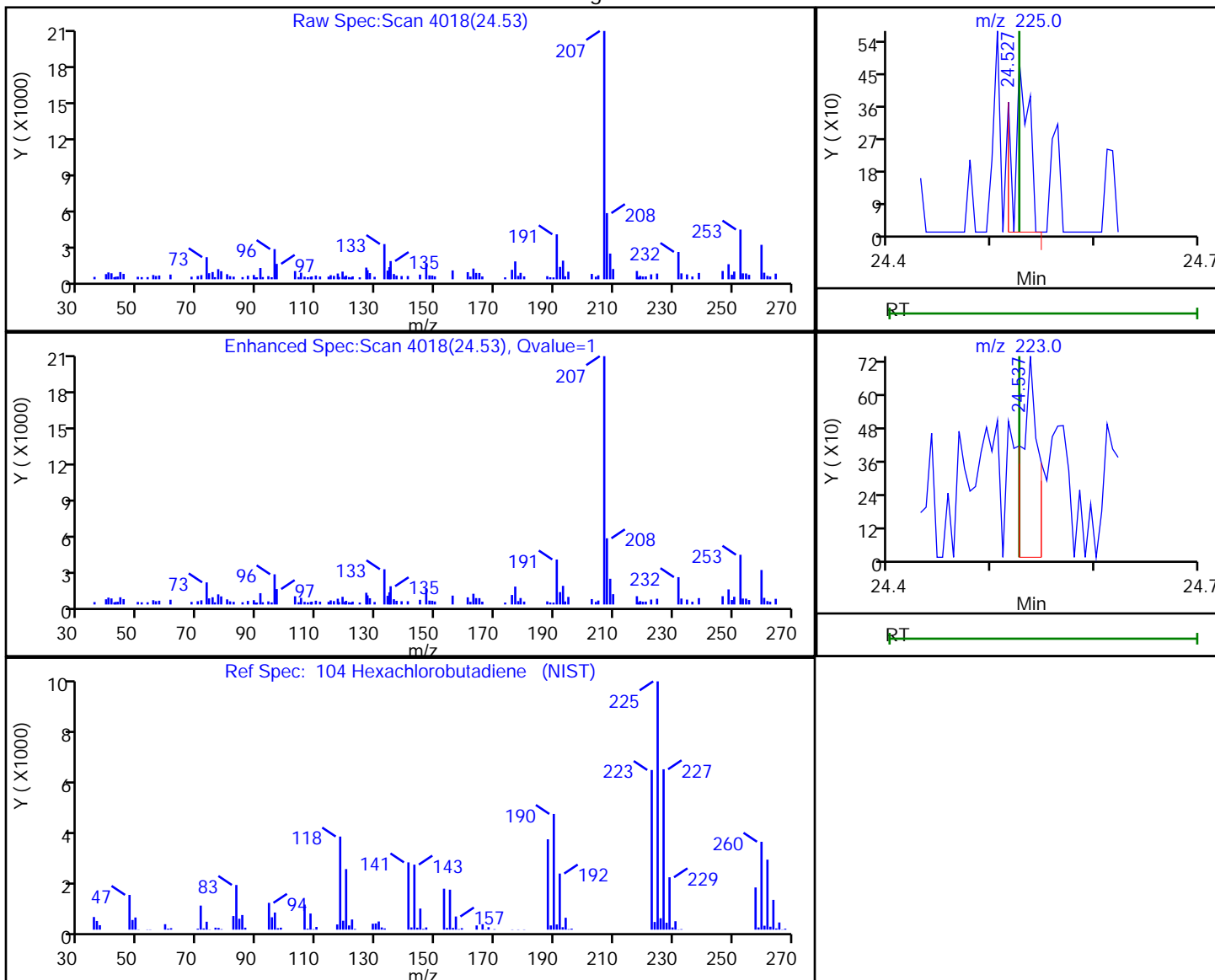
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 489      | 0.004417 |
| 24.54 | 223.00 | 747      |          |

Reviewer: bunmaa, 07-Dec-2018 09:13:49

Audit Action: Marked Compound Undetected

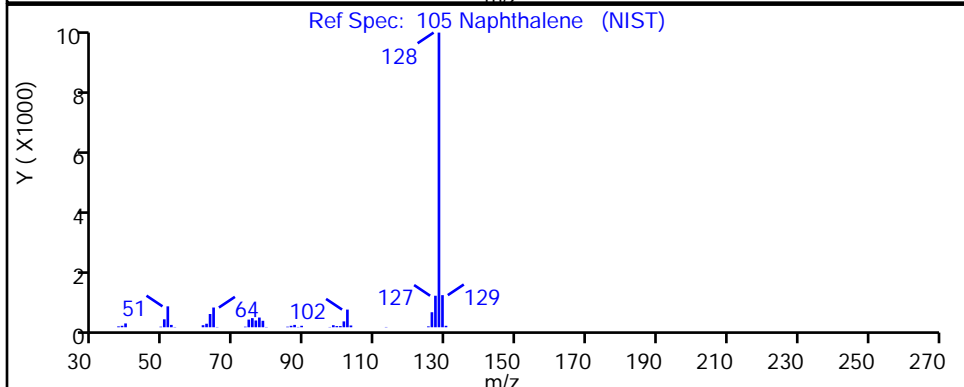
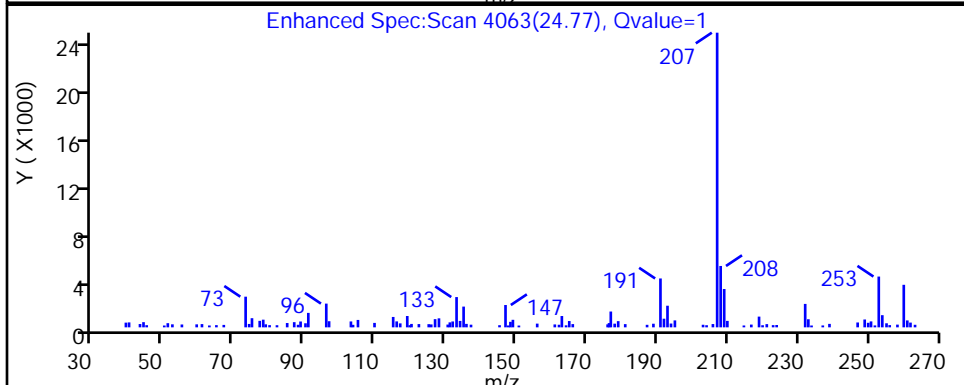
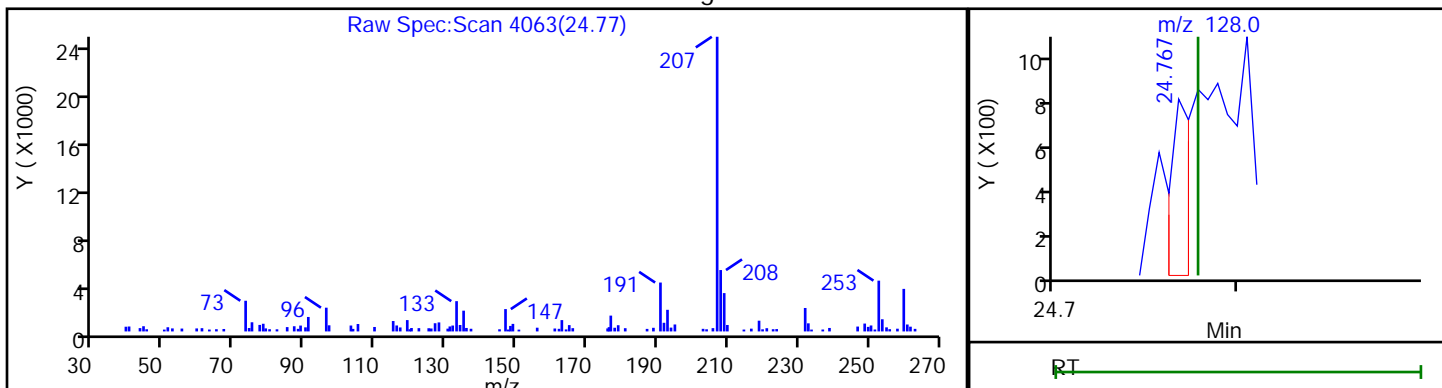
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-021.D  
Injection Date: 06-Dec-2018 06:51:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-5 Lab Sample ID: 200-46353-5  
Client ID: IA-4\_20181120  
Operator ID: ert ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.77 | 128.00 | 564      | 0.002614 |

Reviewer: bunmaa, 07-Dec-2018 09:13:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.62   |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.4    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 100    | E | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.38   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 3.5    |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.39   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.061  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.31   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.58   |   | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 0.78   |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.3    |   | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 6.1    |   | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 2.1    |   | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    |   | 2.5  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.3    |   | 1.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 5.6    |   | 1.2  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.3    |   | 1.1  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 240    | E | 12   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 1.3    |   | 0.70 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10     |   | 1.5  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.3    |   | 0.69 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.39   |   | 0.22 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |  |
| 71-43-2   | Benzene                          | 78.11            | 0.98   |   | 0.64 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.83   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.4    |   | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.0    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 5.5    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 26     |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 9.3    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Lims ID: 200-46353-A-6  
 Client ID: IA-5\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 07:42:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-022  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:24:07 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: guazzonig

Date: 06-Dec-2018 13:38:26

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011         | 99  | 112663   | 0.5095            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.179         | -0.005         | 96  | 37556    | 0.3990            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |                |     |          | ND                | MU    |
| 5 Chloromethane               | 50  | 3.460     | 3.463         | -0.005         | 98  | 26506    | 0.6160            |       |
| 6 Butane                      | 43  | 3.604     | 3.598         | 0.000          | 97  | 136777   | 2.36              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |     |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND                | U     |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.760     | 4.754         | 0.000          | 98  | 39279    | 0.2248            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.615     | 5.599         | 0.010          | 92  | 7483     | 0.0608            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.840     | 5.853         | -0.016         | 99  | 4744976  | 102.8             | E     |
| 23 Carbon disulfide           | 76  | 6.011     | 6.001         | -0.006         | 99  | 49155    | 0.3527            |       |
| 24 Isopropyl alcohol          | 45  | 6.108     | 6.093         | 0.011          | 100 | 99631    | 1.95              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |     |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.546     | 6.552         | -0.011         | 89  | 18083    | 0.3698            | M     |
| 28 2-Methyl-2-propanol        | 59  | 6.787     | 6.767         | 0.016          | 90  | 16041    | 0.2058            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.937     | 6.943         | -0.011         | 81  | 6204     | 0.0945            |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |                |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.285     | 7.275         | 0.006          | 90  | 19682    | 0.3761            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.793     | 8.788         | 0.000          | 100 | 58778    | 3.55              |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.152         | 0.000          | 75  | 592709   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |                |     |          | ND                |       |
| 42 Chloroform                 | 83  | 9.275     | 9.275         | 0.006          | 86  | 5141     | 0.0415            | M     |
| 43 Cyclohexane                | 84  | 9.537     | 9.515         | 0.006          | 95  | 23531    | 0.3893            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                |       |
| 45 Carbon tetrachloride       | 117 | 9.778     | 9.778         | -0.005         | 89  | 9577     | 0.0613            |       |
| 46 Isooctane                  | 57  | 10.200    | 10.190        | 0.005          | 68  | 25072    | 0.1254            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.216    | 10.216        | 0.000         | 97 | 42873    | 0.3057            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                | MU    |
| 49 n-Heptane                   | 43  | 10.559    | 10.559        | -0.016        | 89 | 14617    | 0.2026            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2633468  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  | 12.196    | 12.196        | -0.010        | 36 | 2062     | 0.0505            | M     |
| 56 1,4-Dioxane                 | 88  | 12.297    | 12.335        | 0.011         | 91 | 40372    | 1.57              |       |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.801    | 13.827        | 0.011         | 97 | 52748    | 0.5784            |       |
| 65 Toluene                     | 92  | 14.063    | 14.068        | -0.005        | 94 | 79489    | 0.7850            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.133    | 15.143        | -0.010        | 93 | 14441    | 0.1191            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 85 | 2499919  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.176    | 17.187        | -0.006        | 98 | 289954   | 1.27              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.433    | 17.438        | 0.000         | 0  | 561638   | 6.08              |       |
| 79 o-Xylene                    | 106 | 18.284    | 18.294        | -0.010        | 98 | 187813   | 2.14              |       |
| 80 Styrene                     | 104 | 18.342    | 18.342        | 0.005         | 46 | 2587     | 0.0192            | M     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 | 19.049    | 19.049        | 0.000         | 40 | 5027     | 0.0196            | M     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.846        | 0.000         | 80 | 7785     | 0.0255            | M     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                |       |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060        | 0.006         | 41 | 8807     | 0.0338            | M     |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.167        | 0.000         | 86 | 8472     | 0.0380            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.792        | 0.000         | 98 | 26526    | 0.1207            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | MU    |
| 95 4-Isopropyltoluene          | 119 | 21.258    | 21.275        | -0.011        | 65 | 5527     | 0.0209            |       |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 | 21.419    | 21.419        | 0.001         | 55 | 5266     | 0.0309            | a     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |

### QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Worklist Smp#: 22

Client ID: IA-5\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

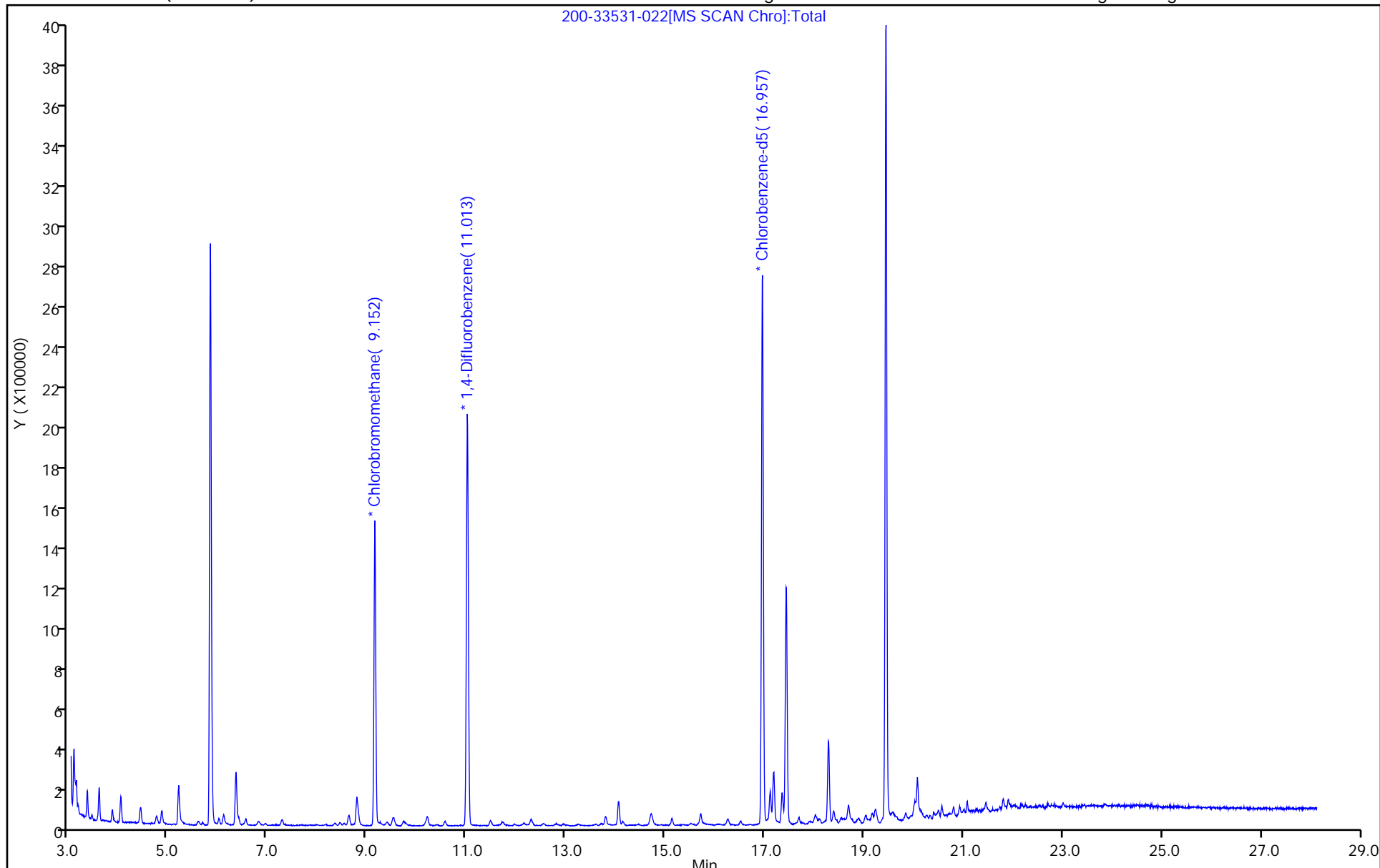
ALS Bottle#: 22

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

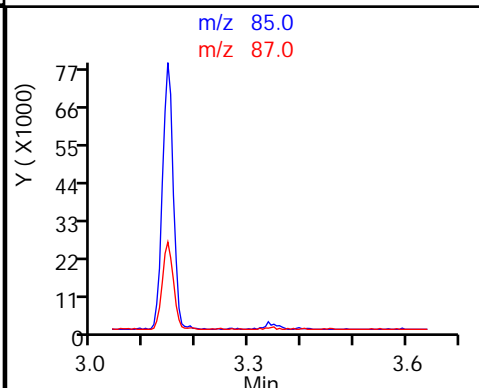
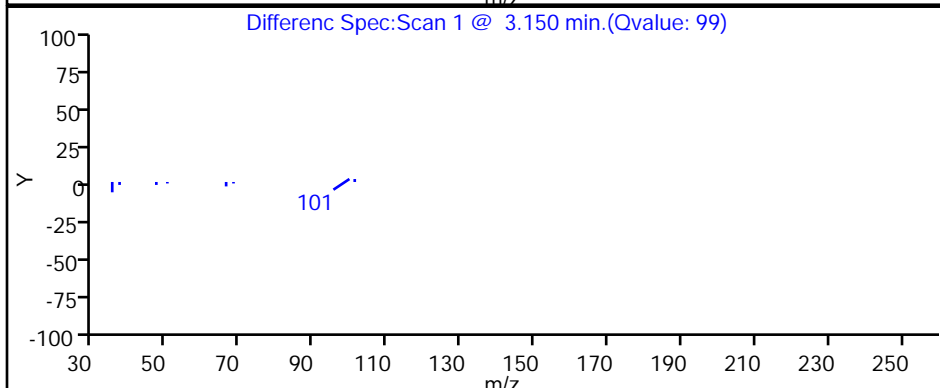
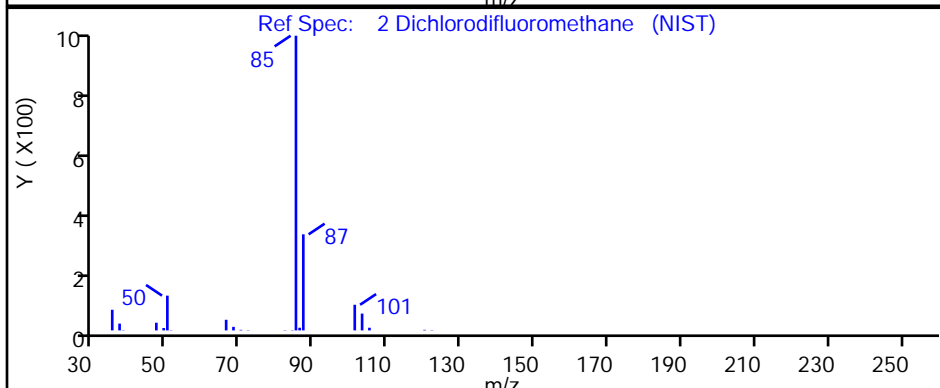
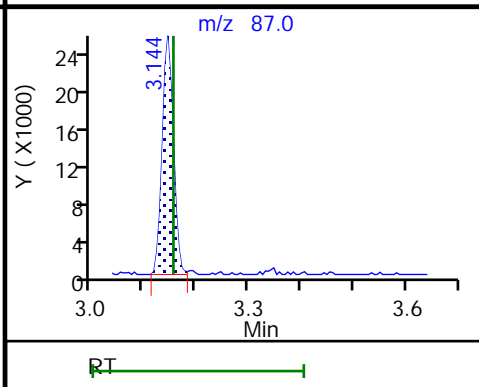
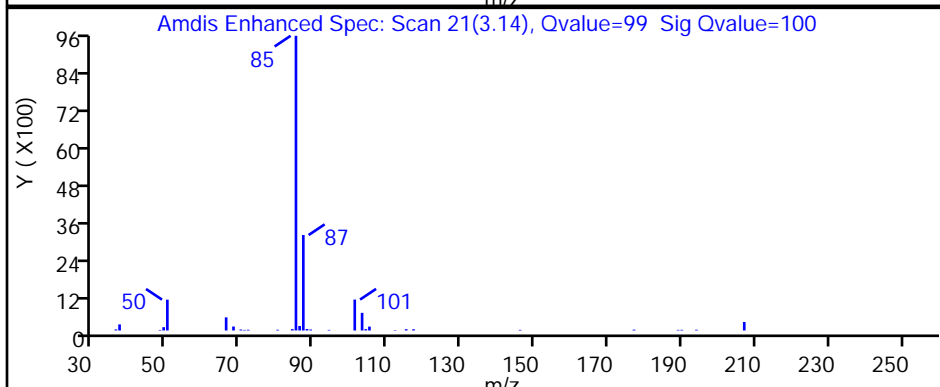
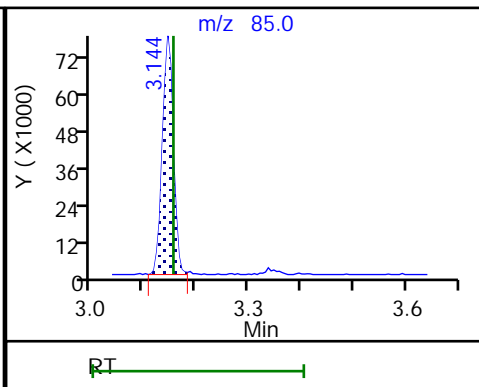
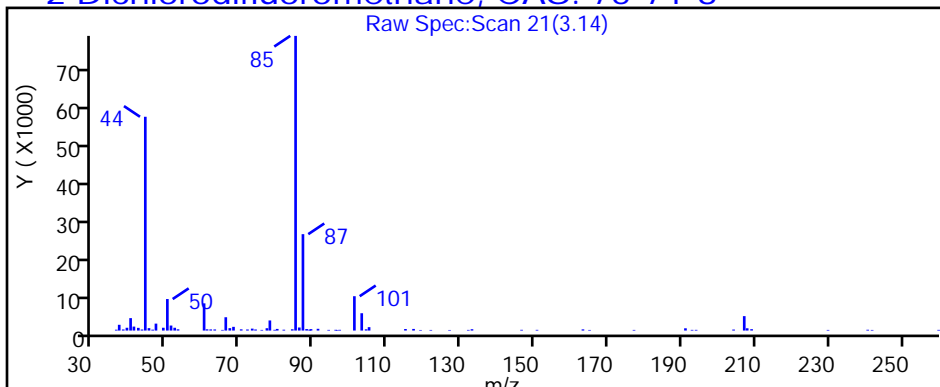
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

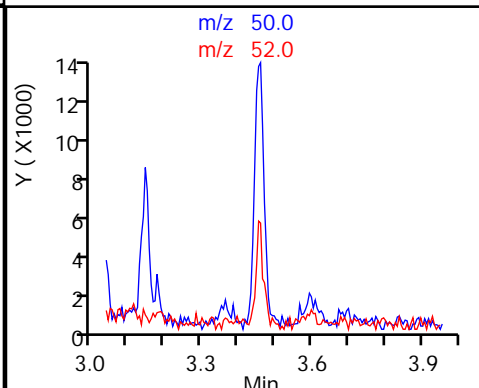
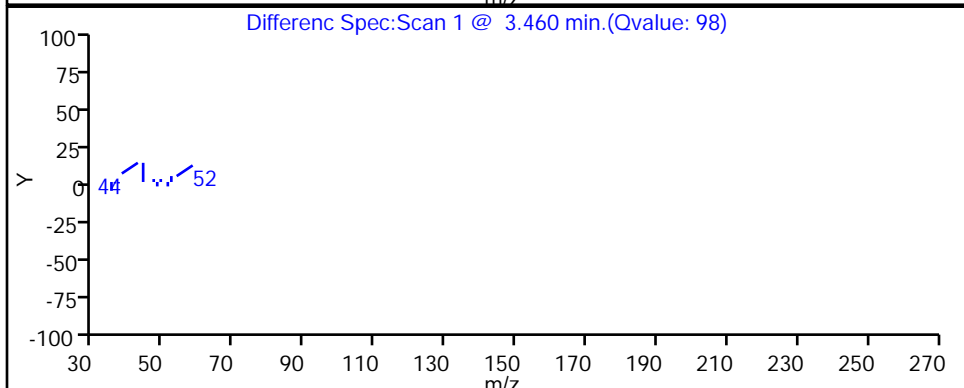
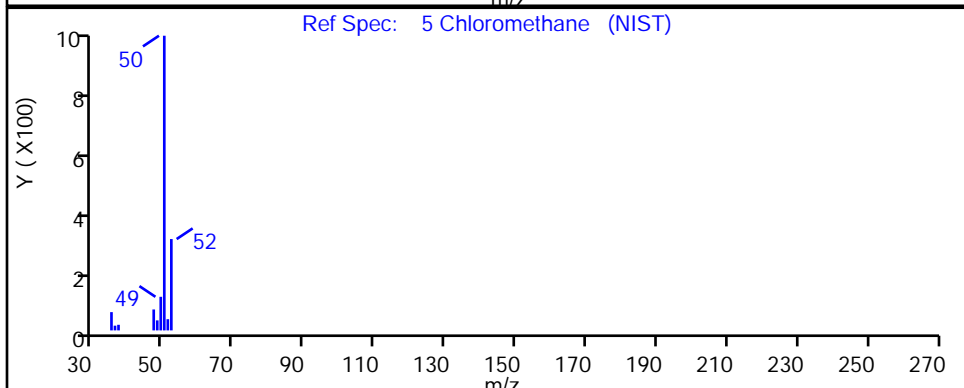
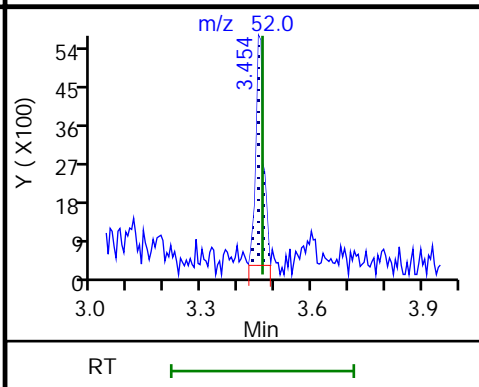
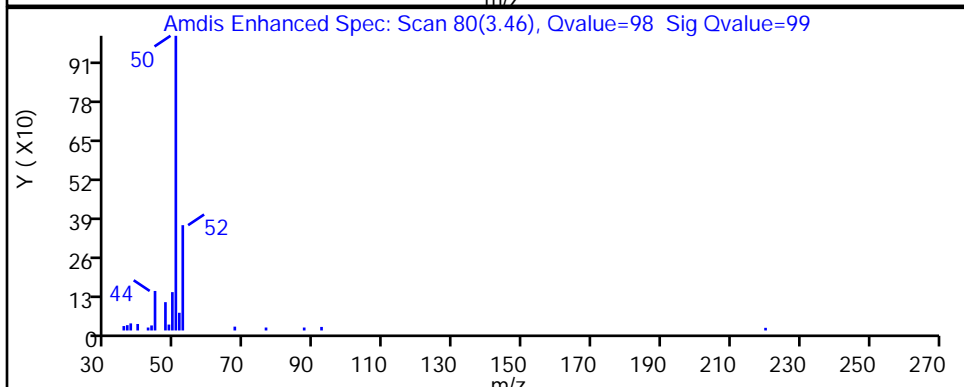
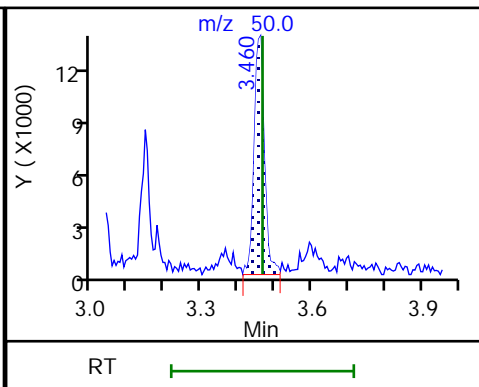
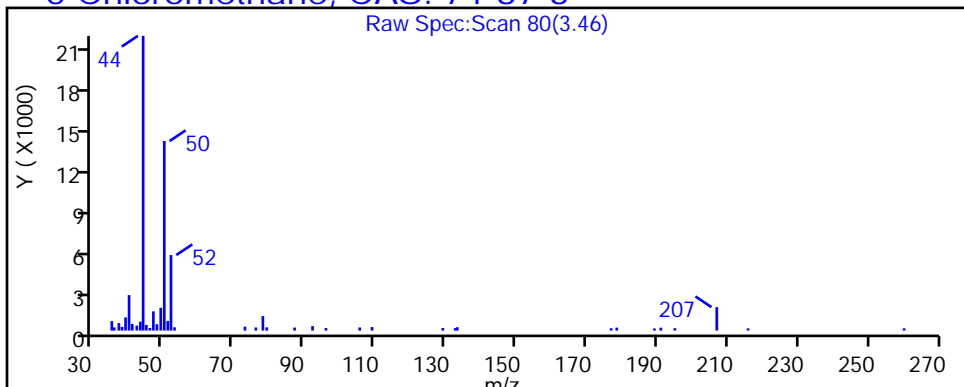
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

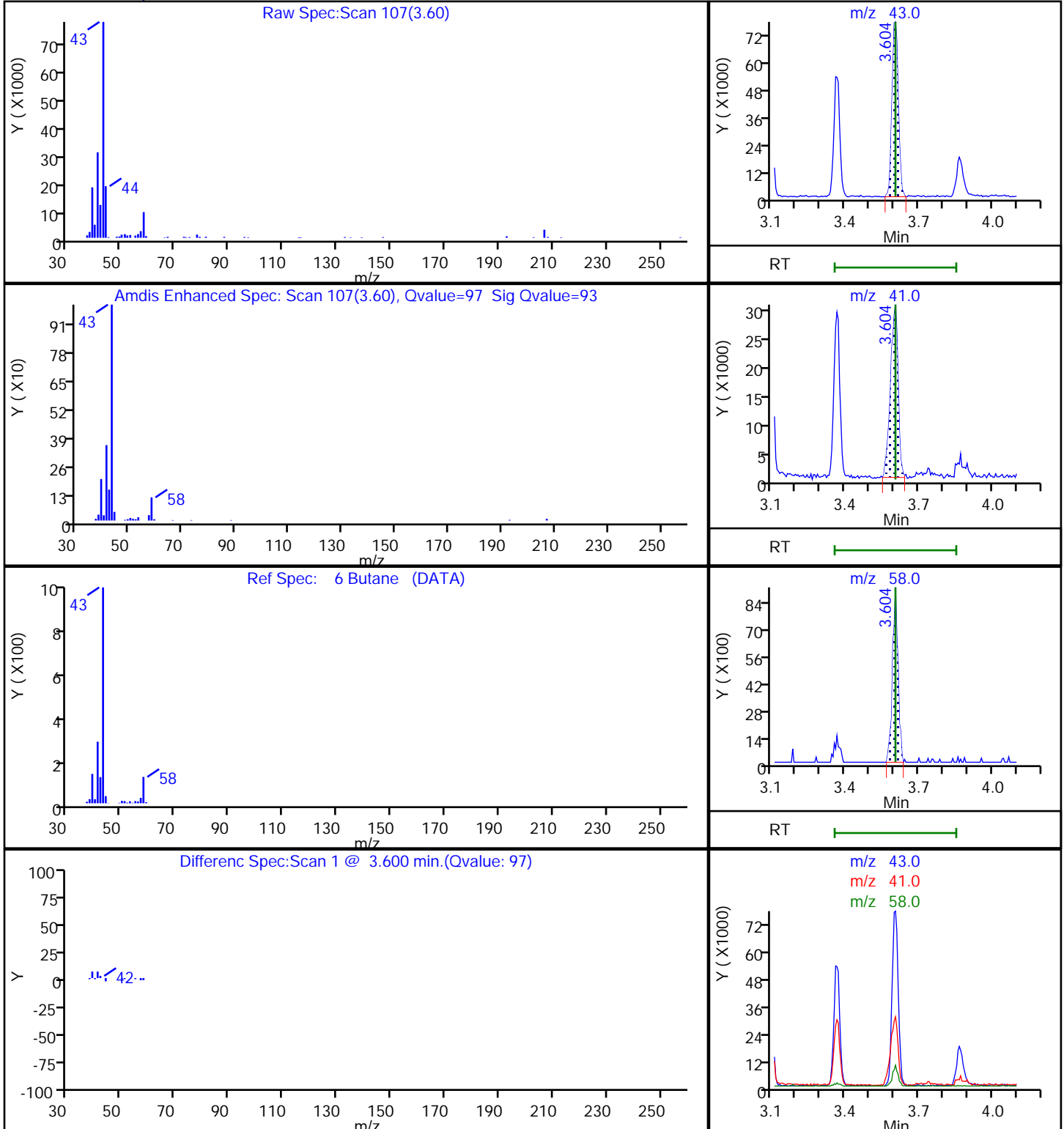
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

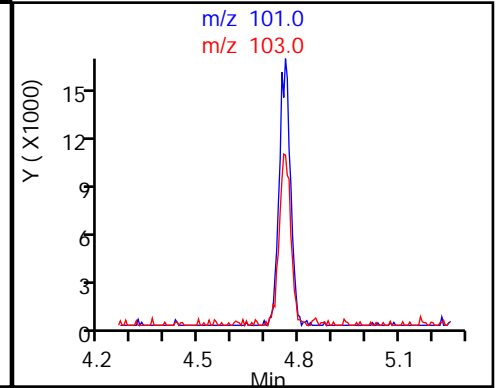
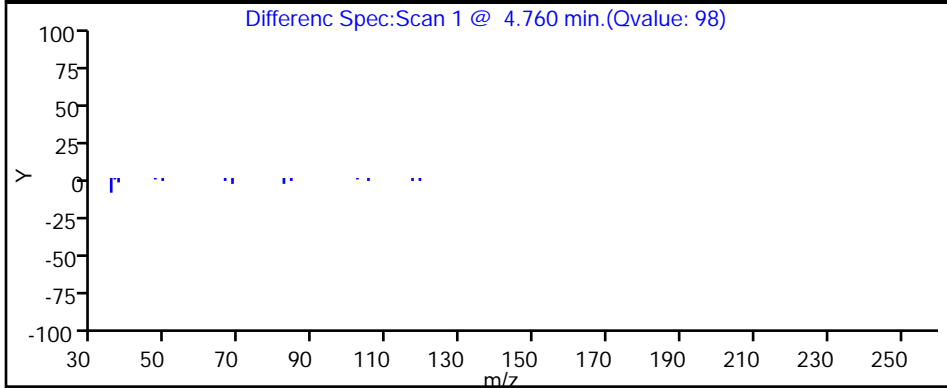
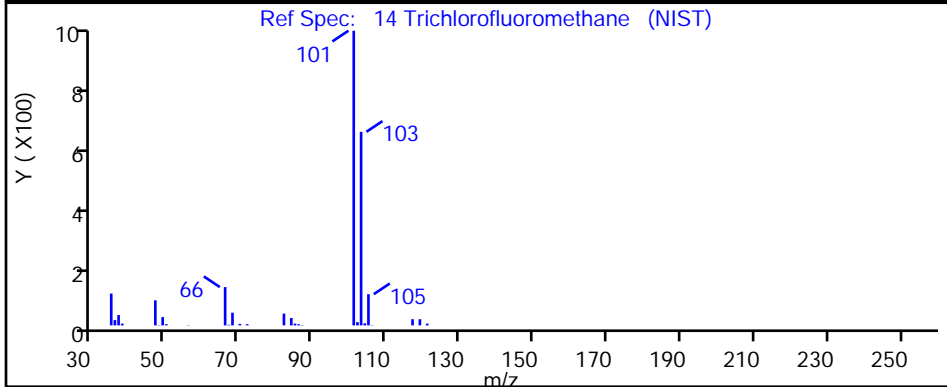
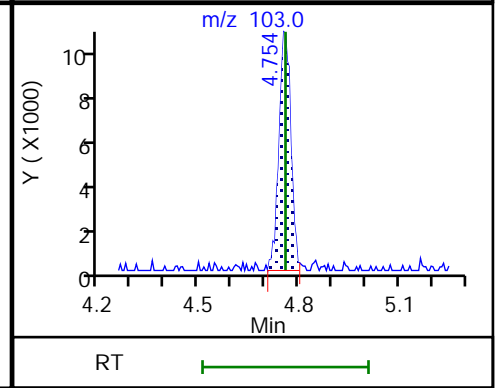
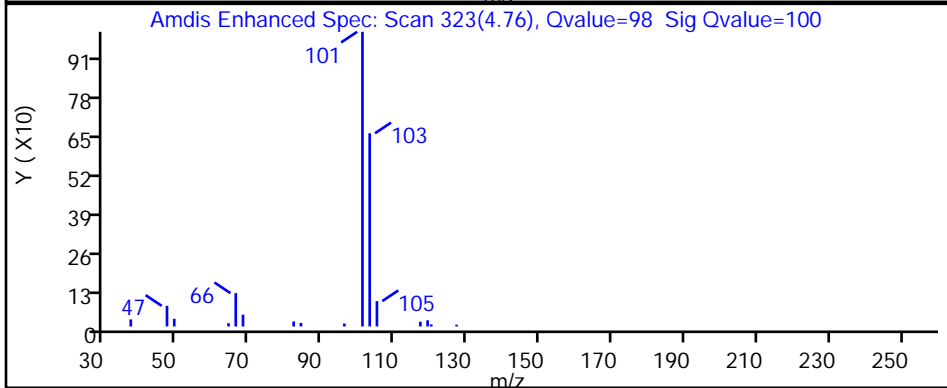
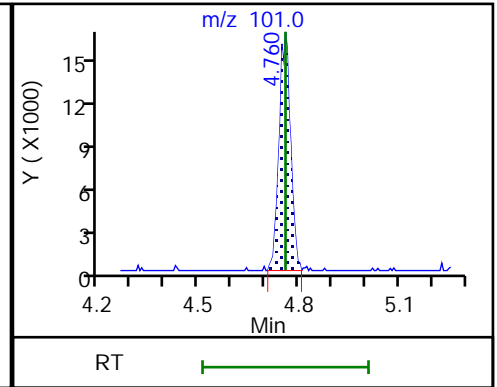
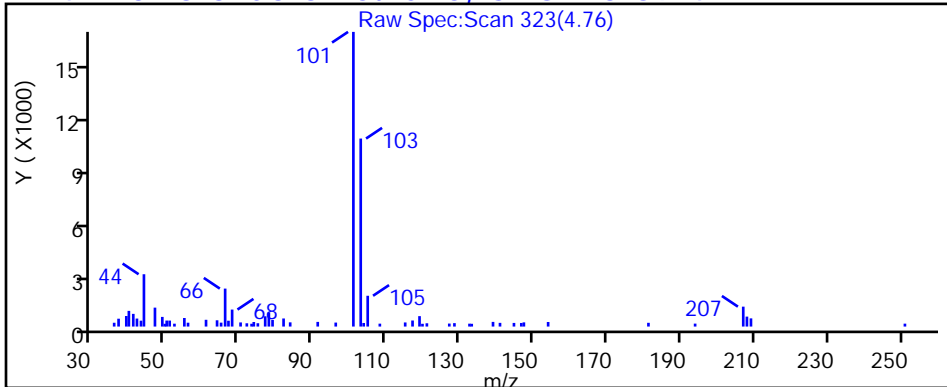
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

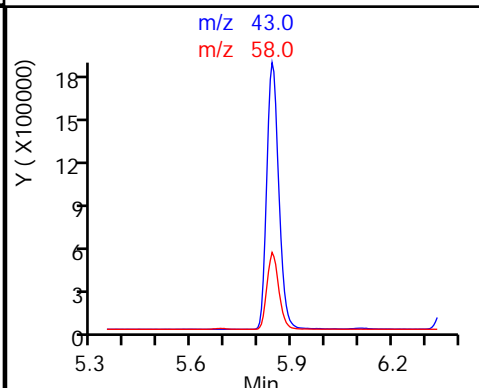
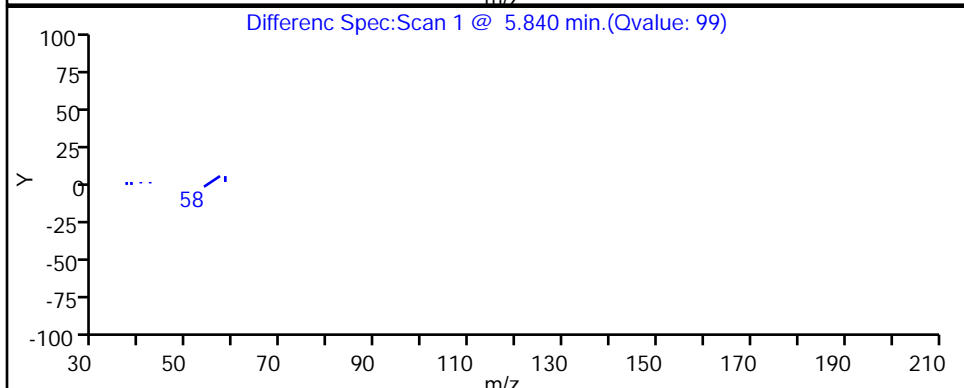
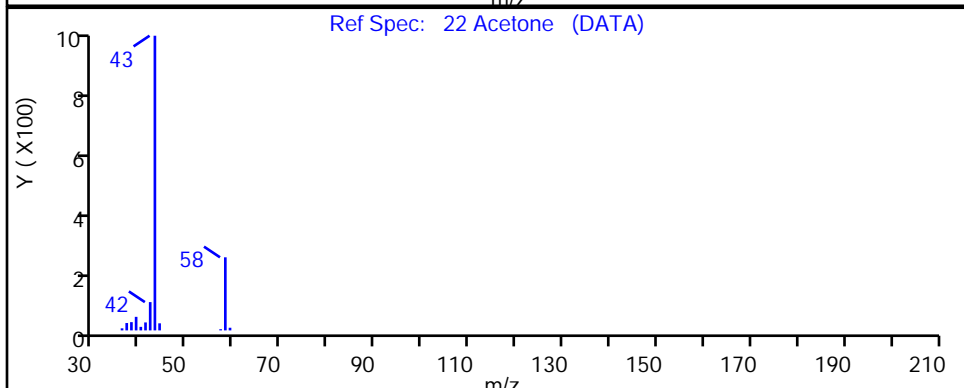
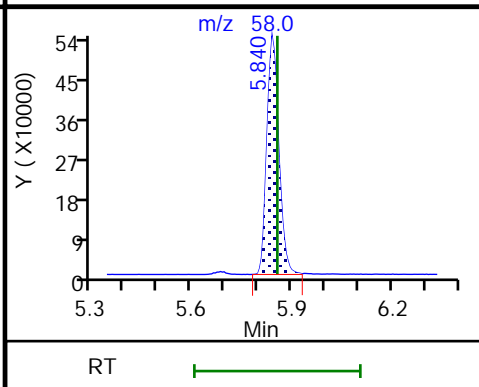
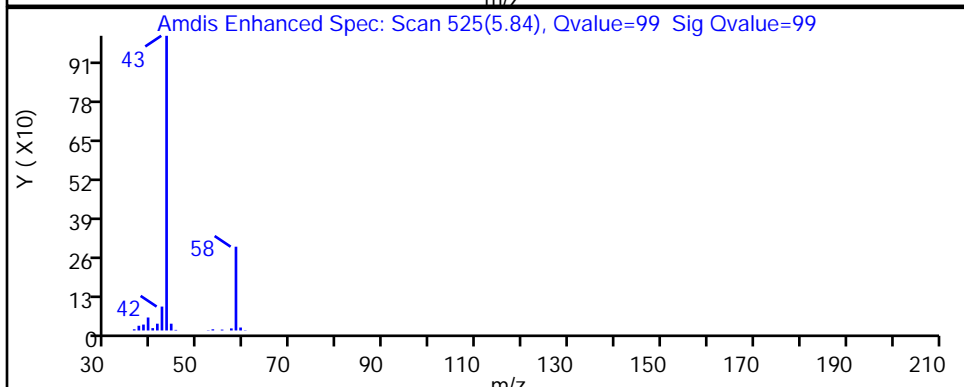
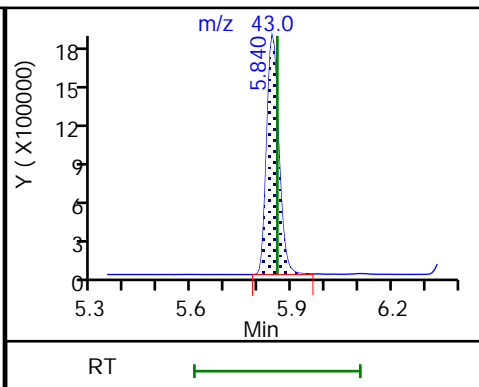
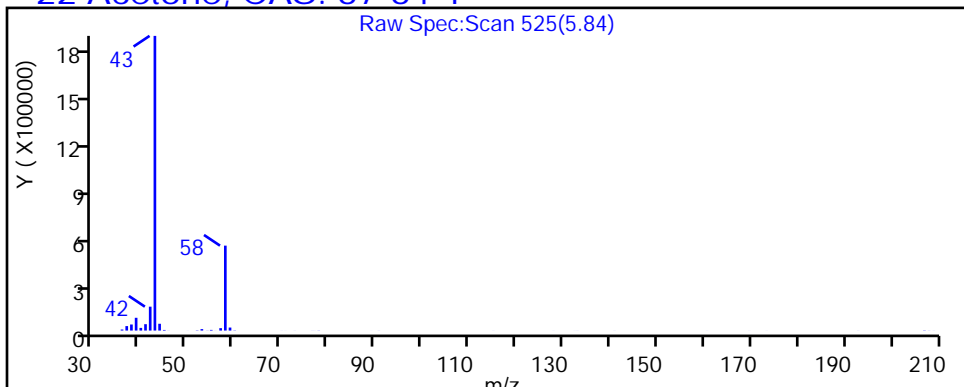
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

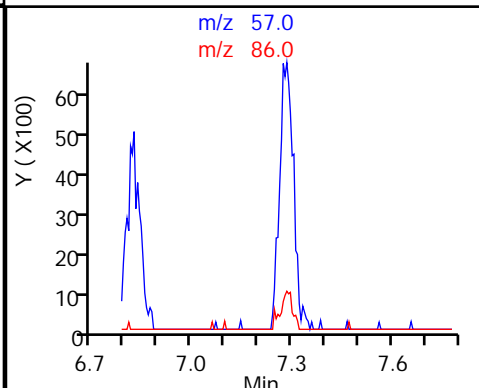
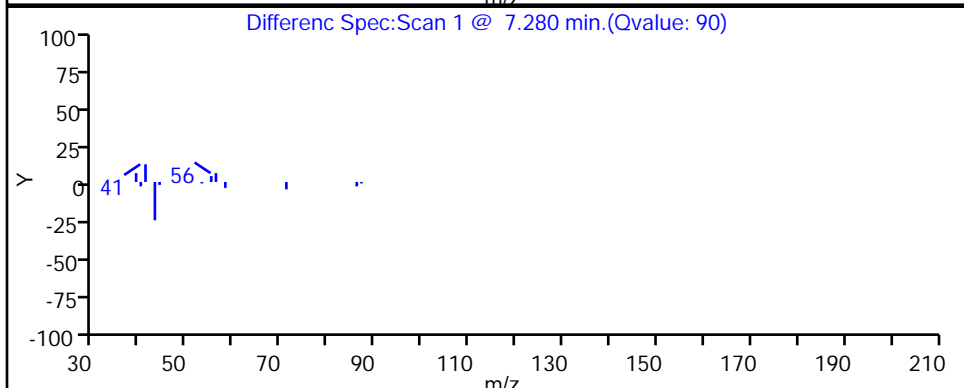
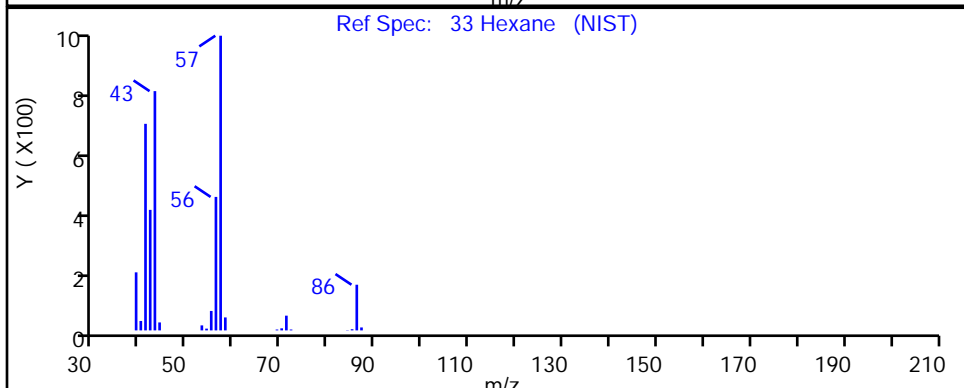
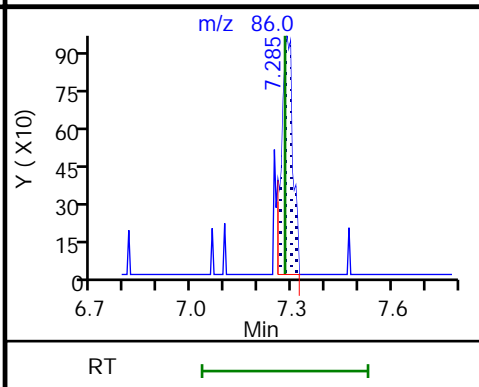
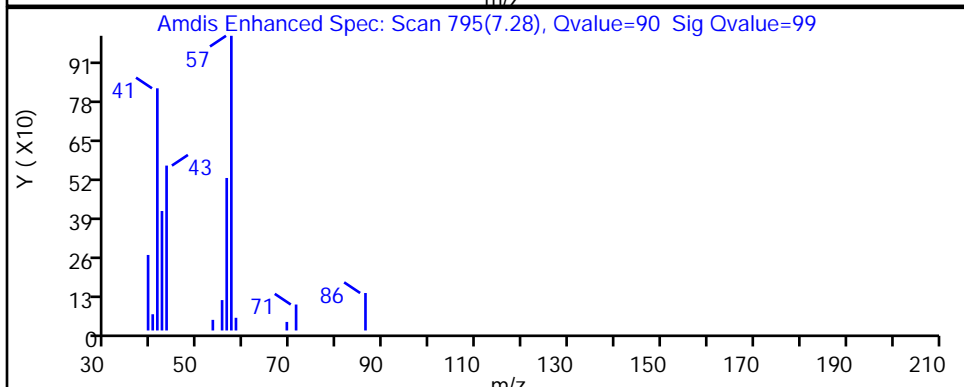
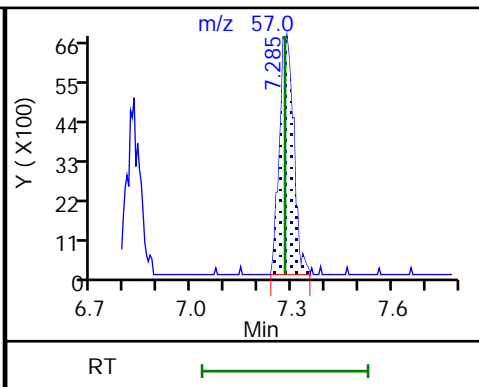
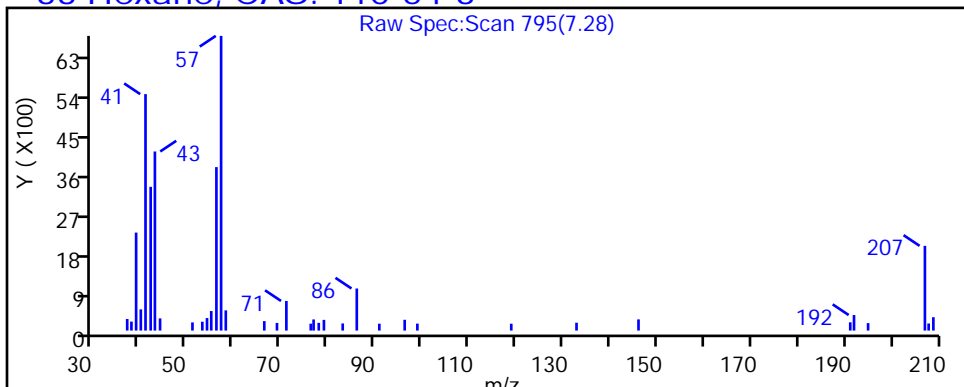
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

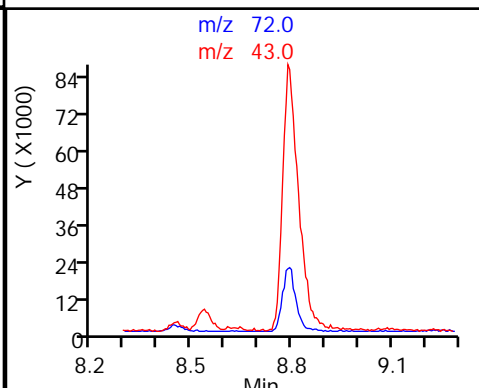
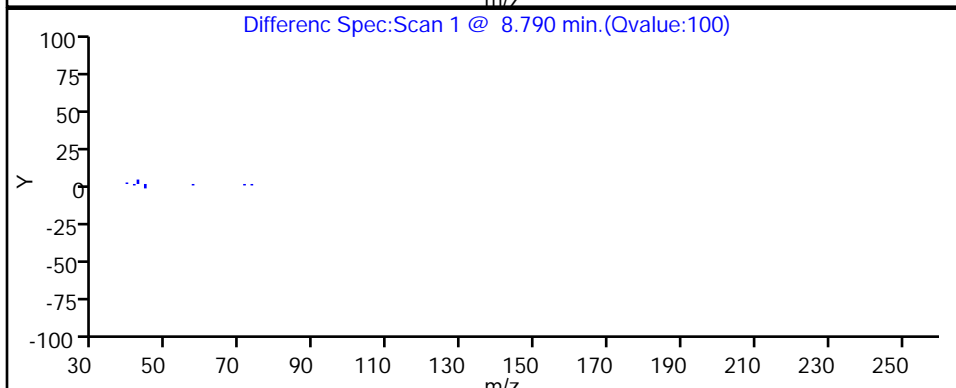
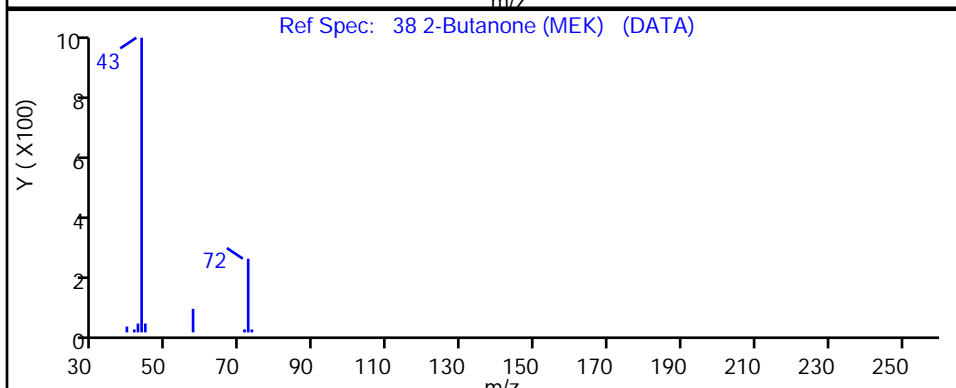
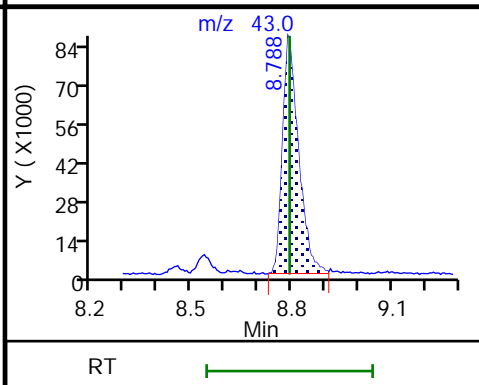
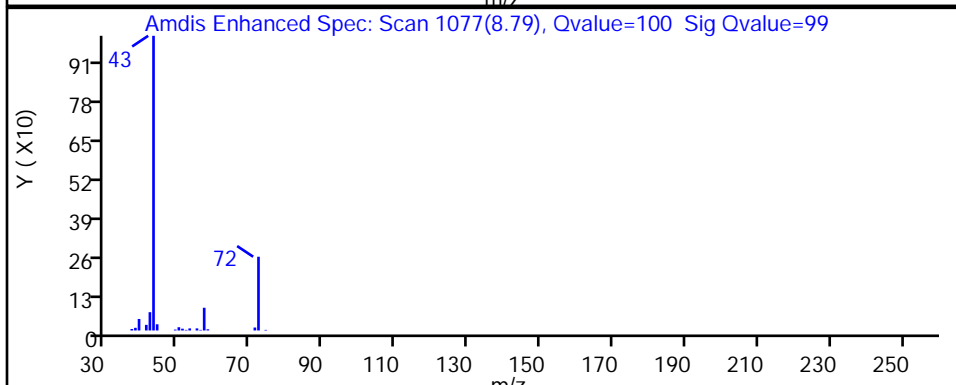
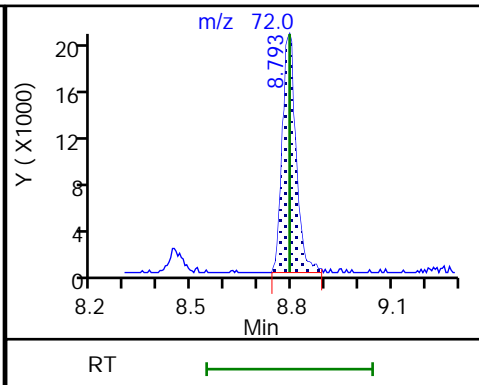
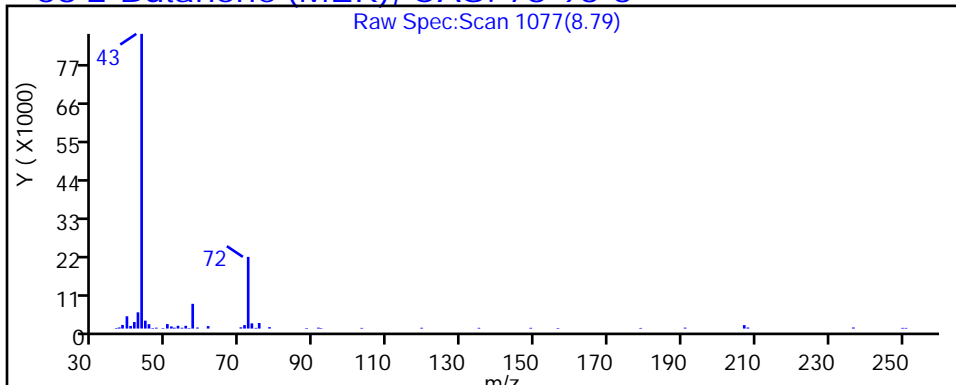
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

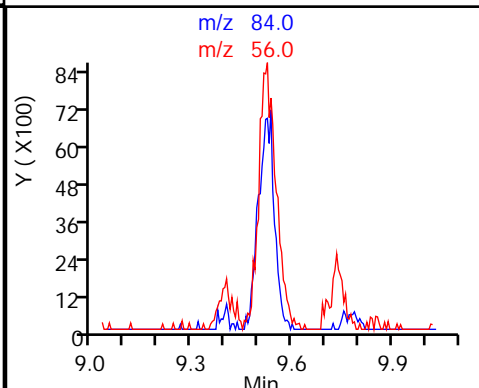
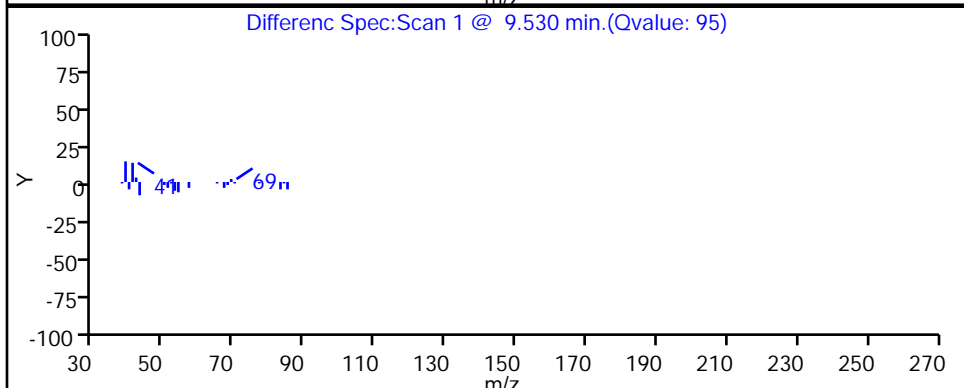
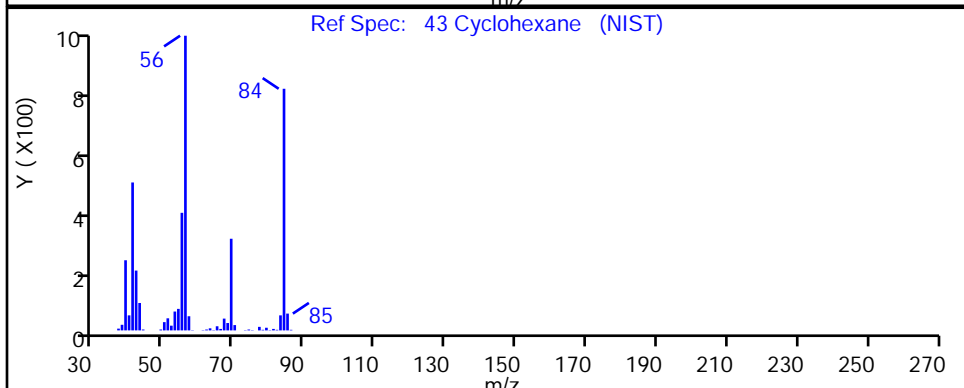
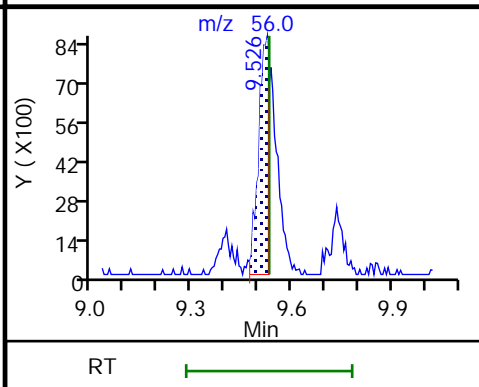
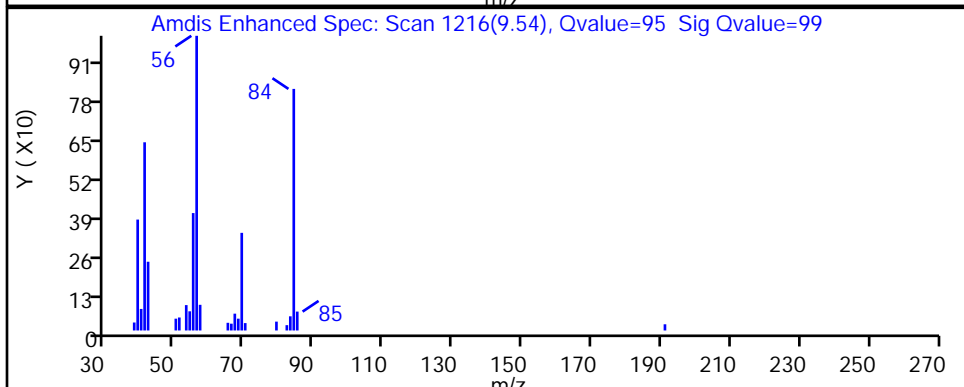
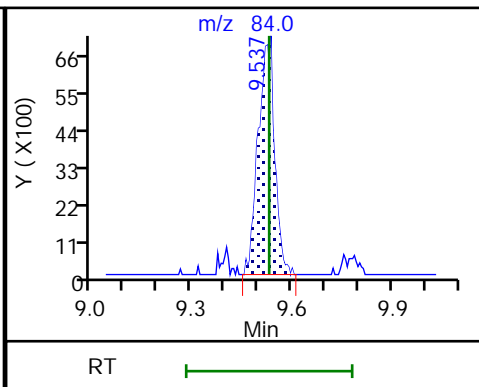
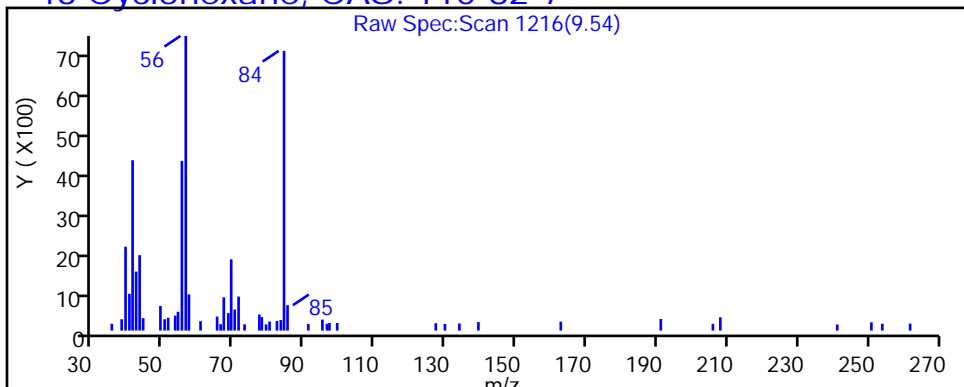
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

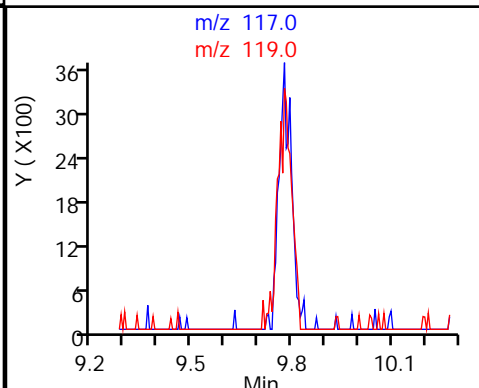
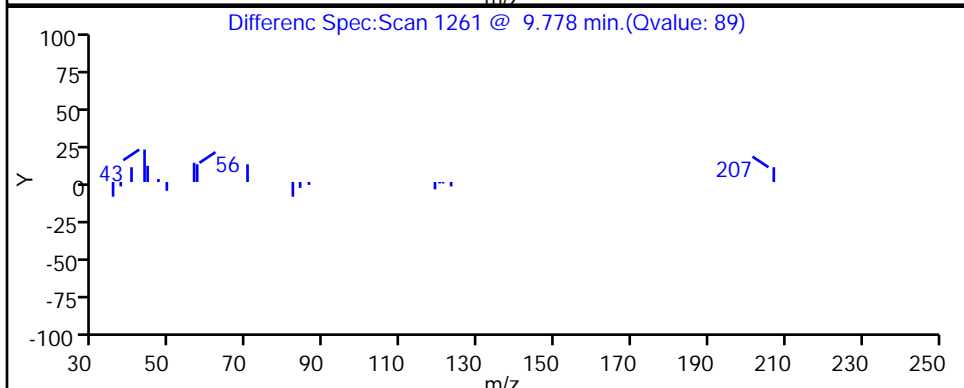
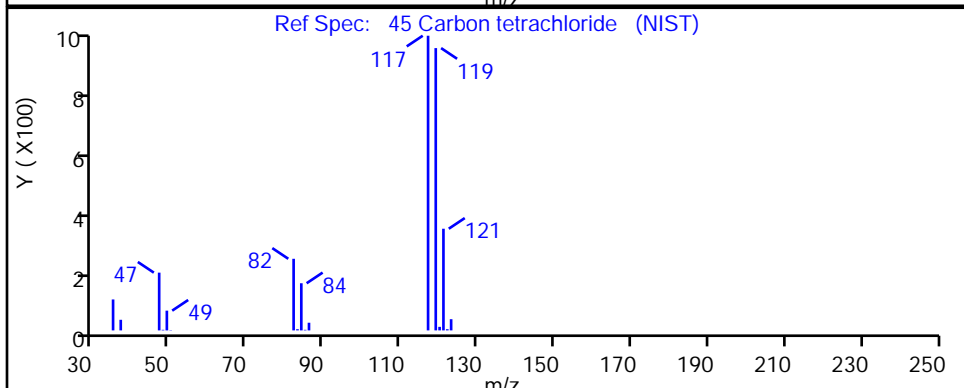
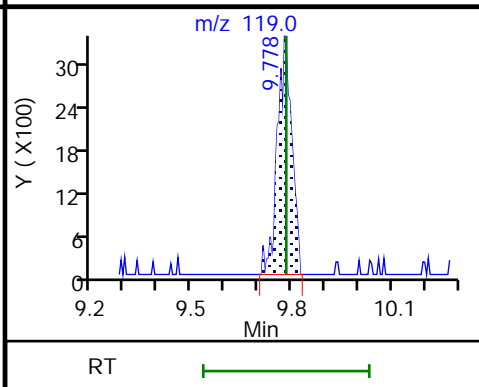
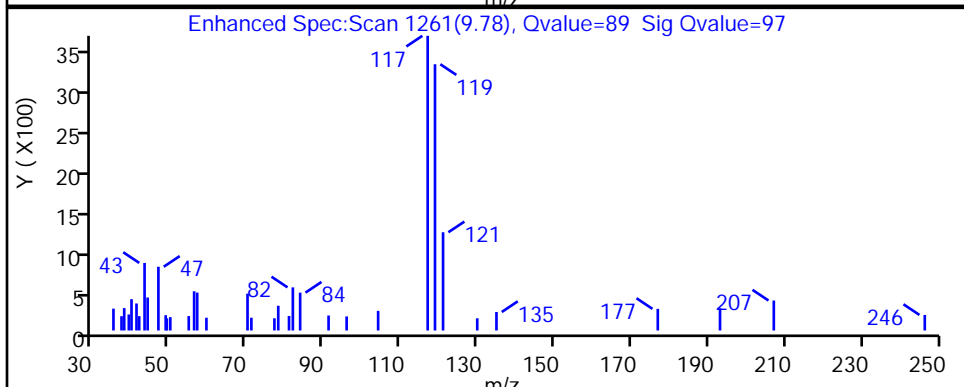
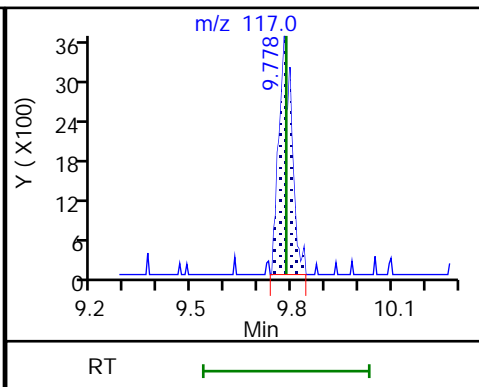
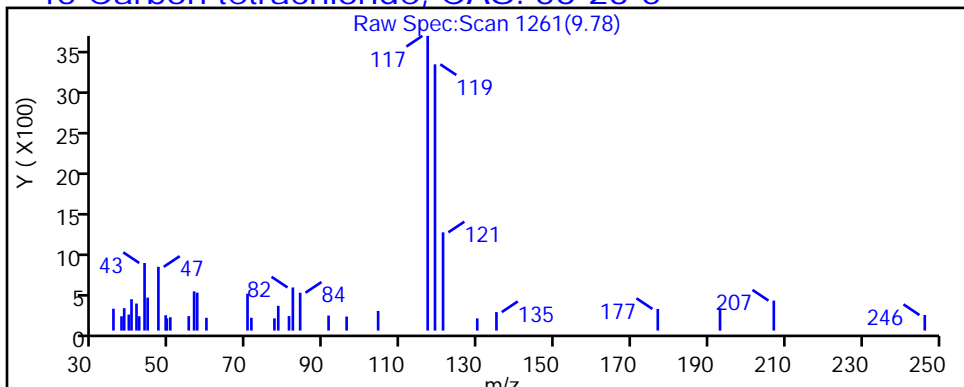
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

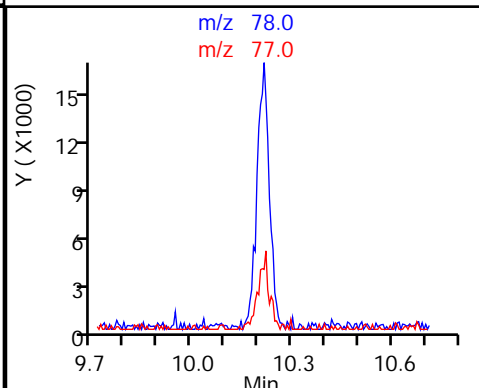
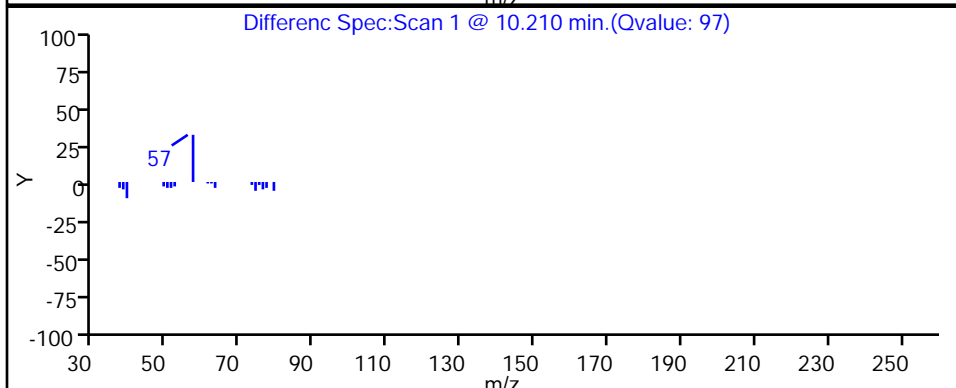
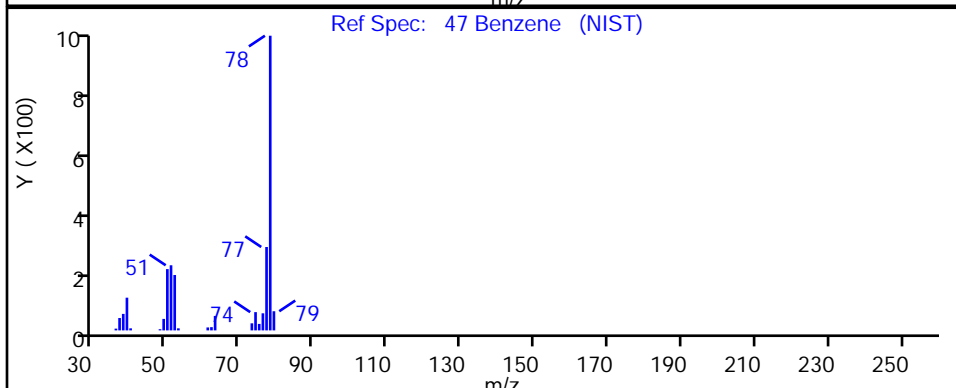
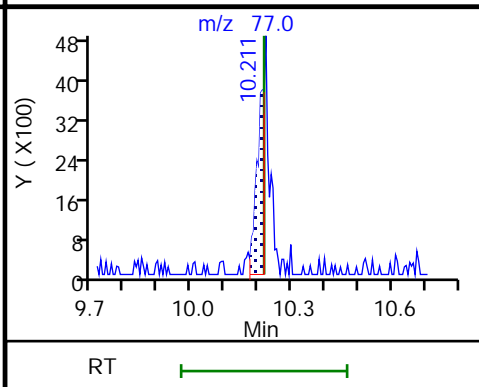
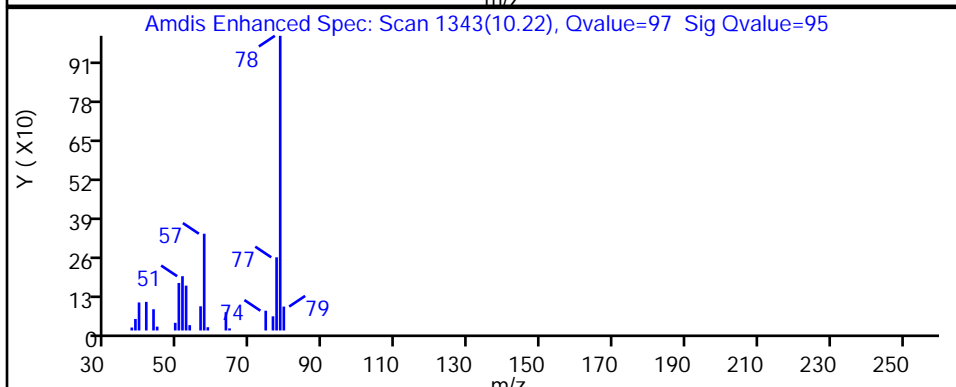
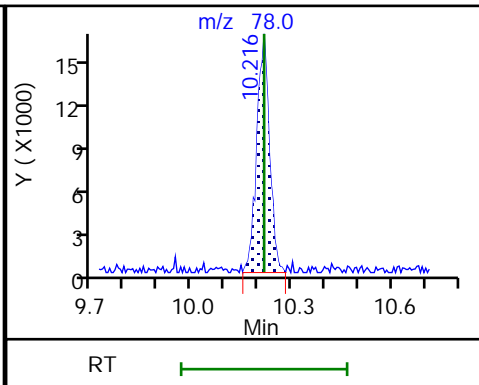
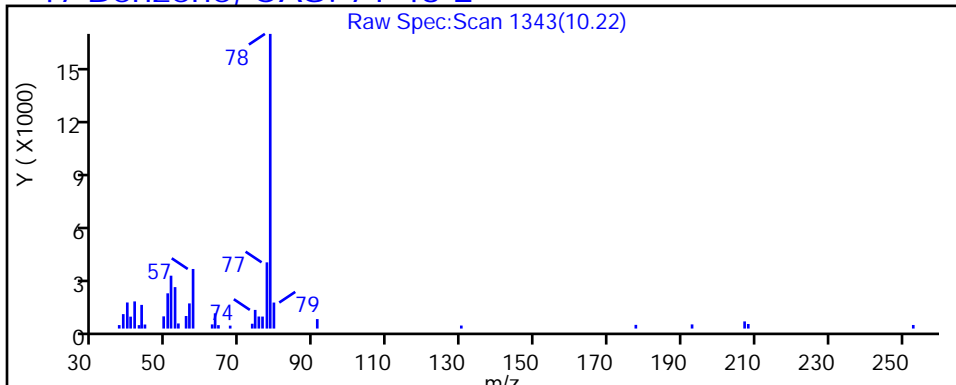
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

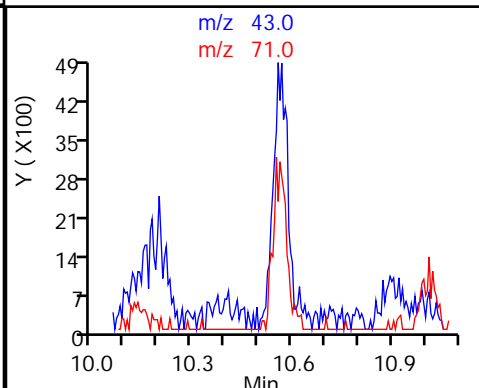
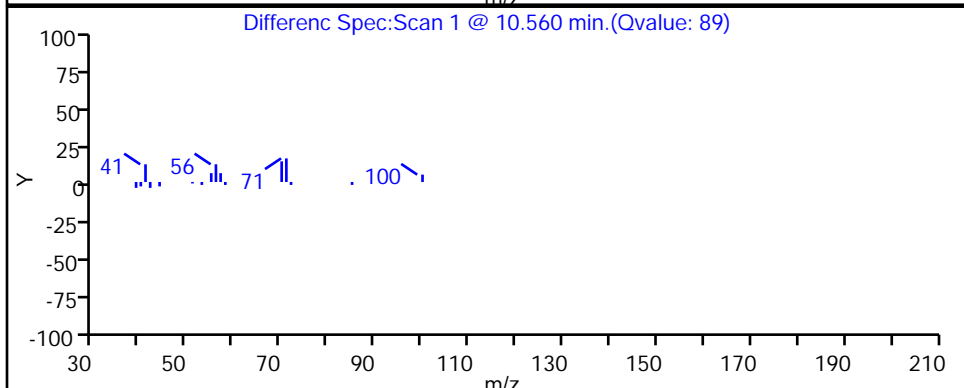
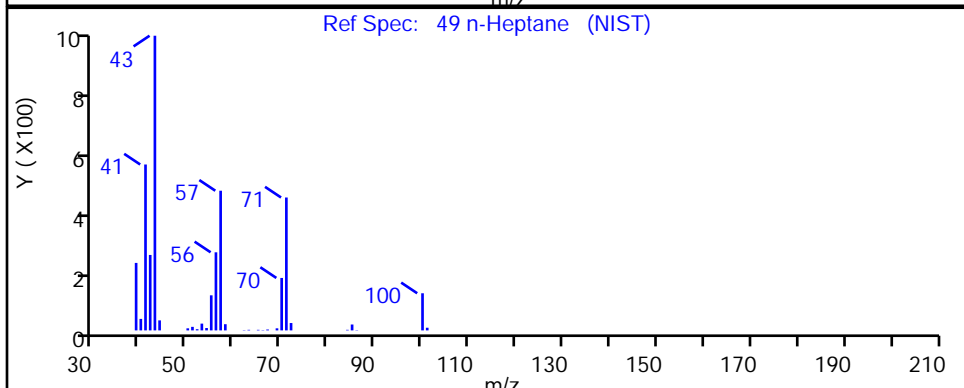
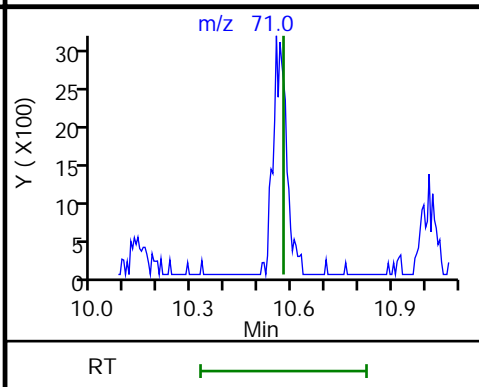
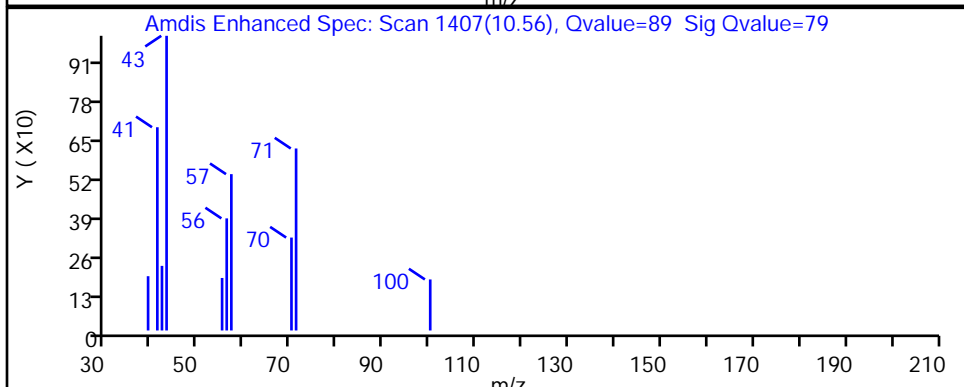
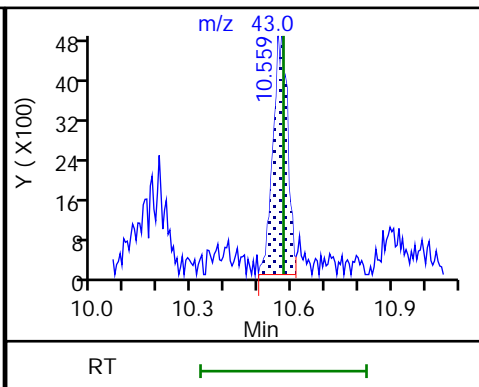
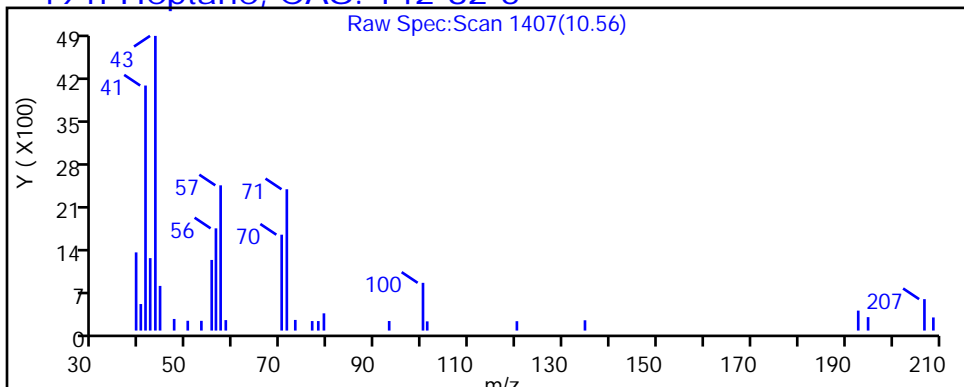
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

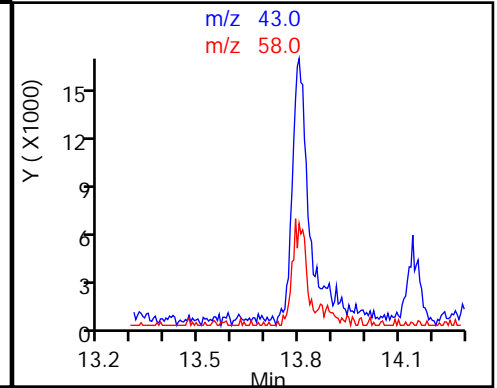
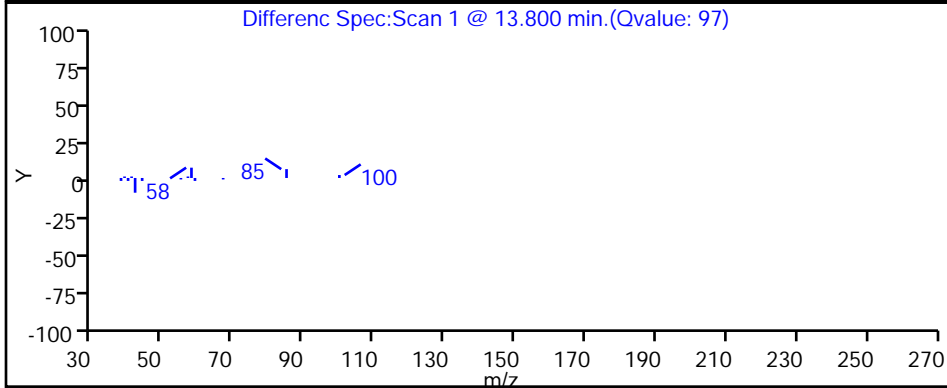
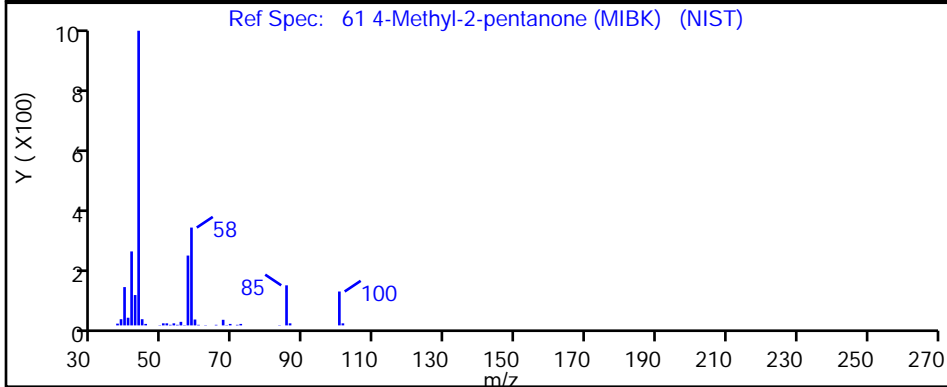
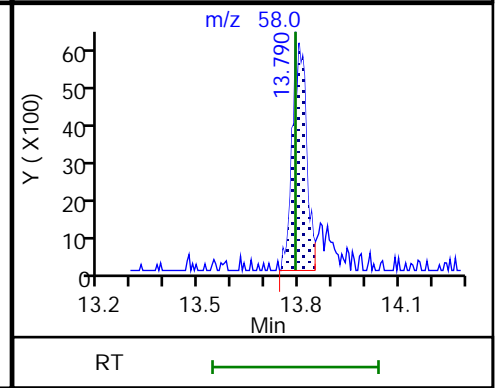
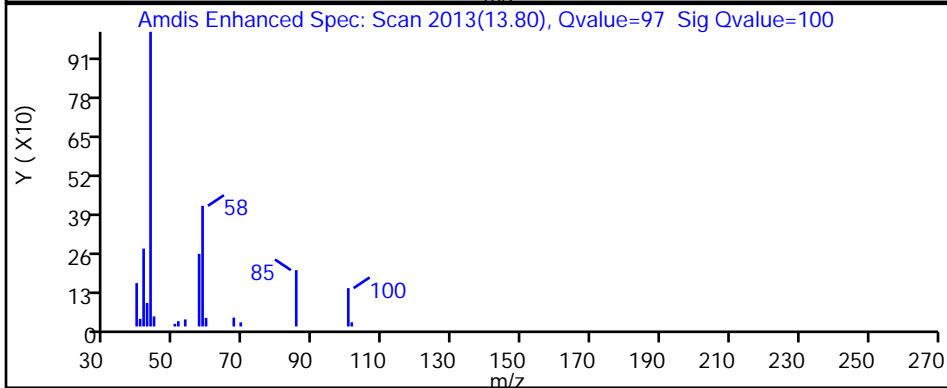
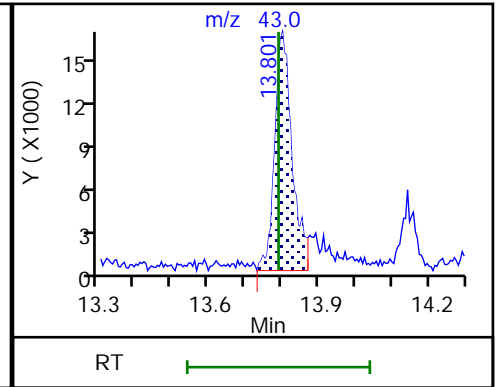
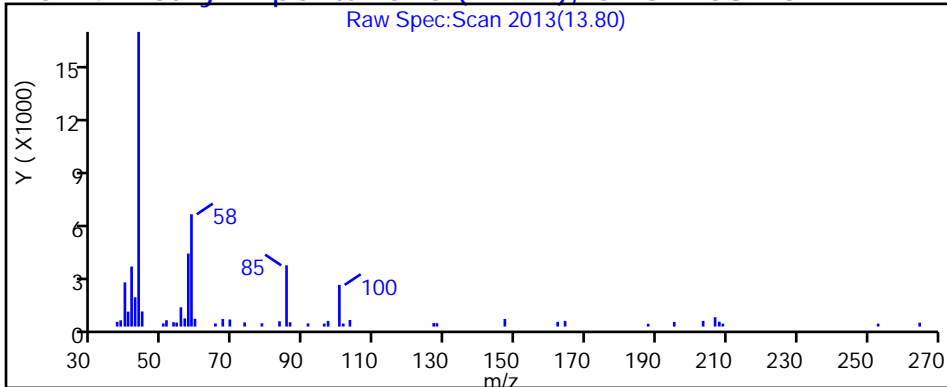
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

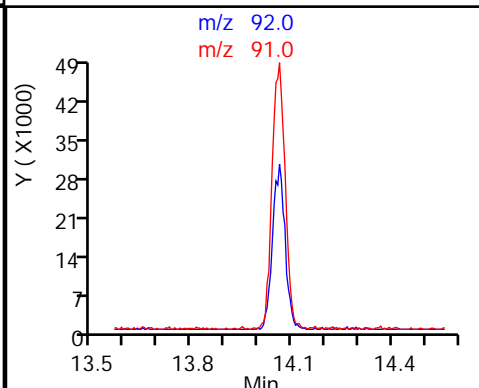
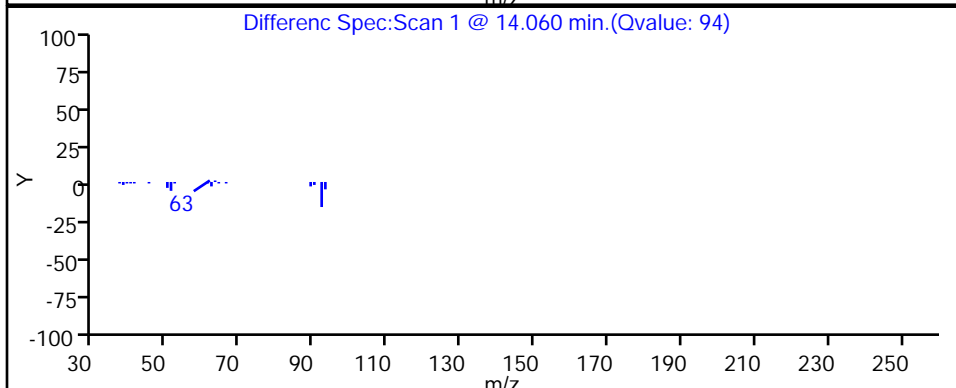
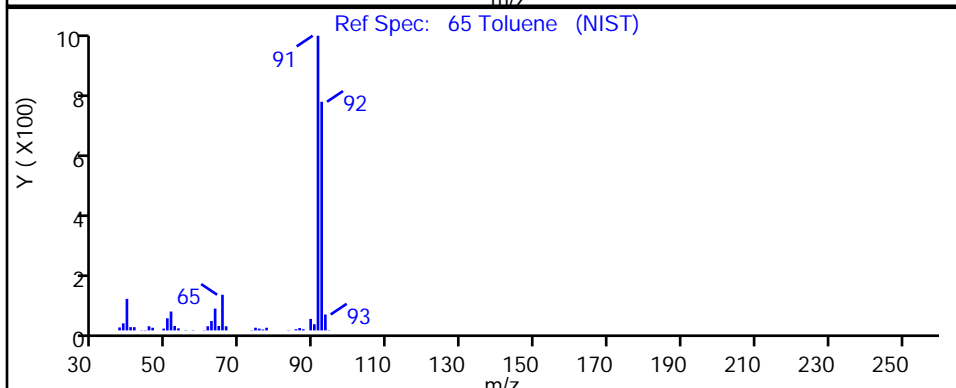
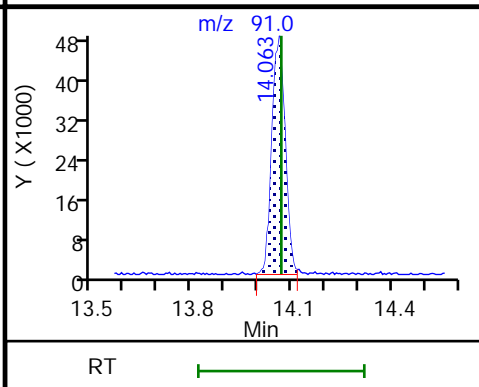
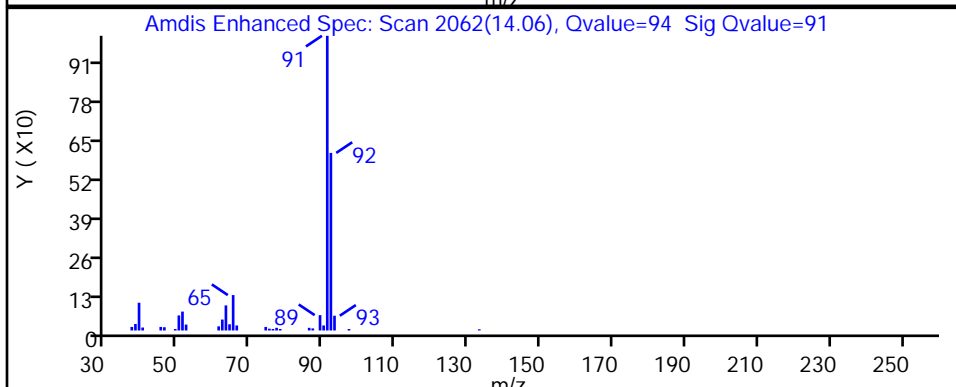
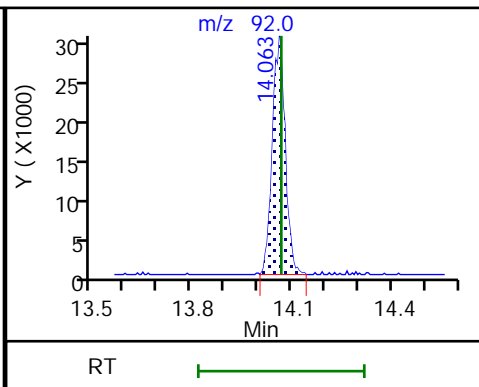
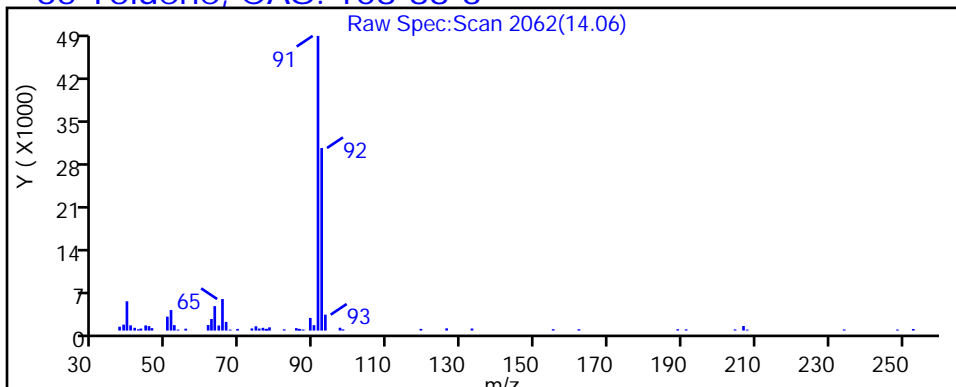
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

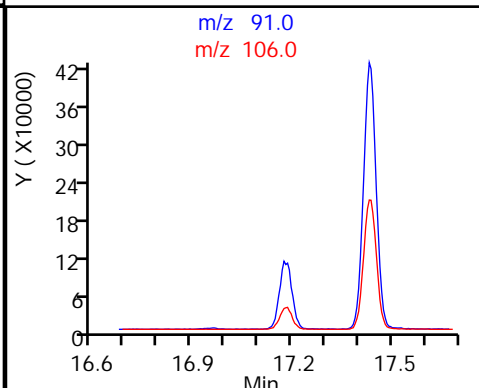
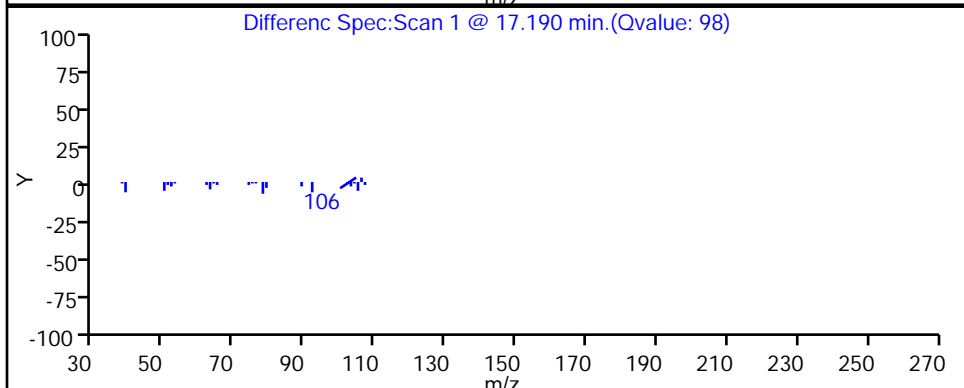
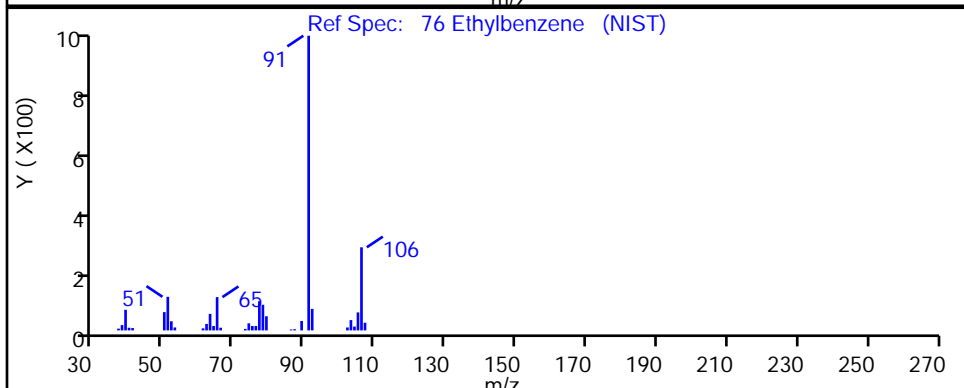
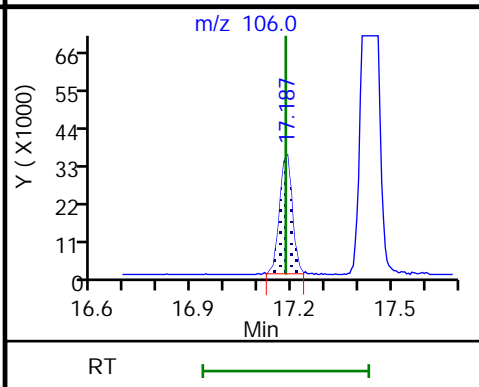
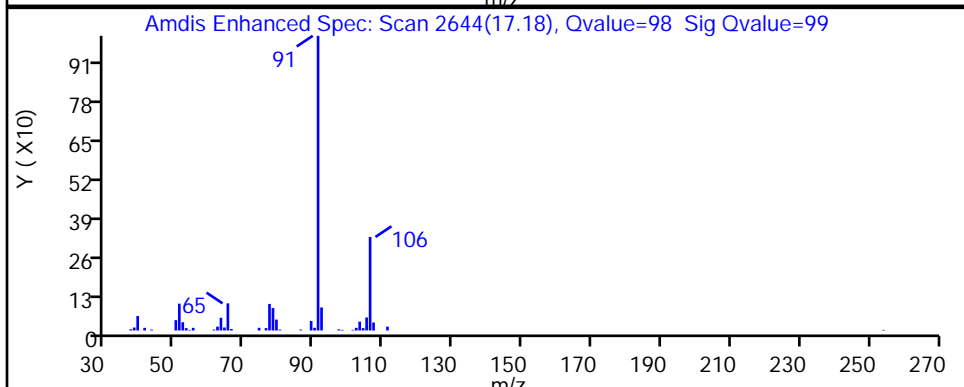
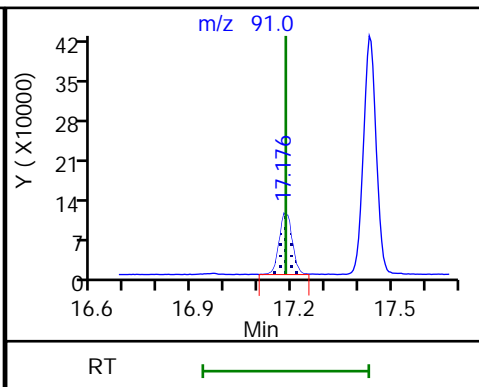
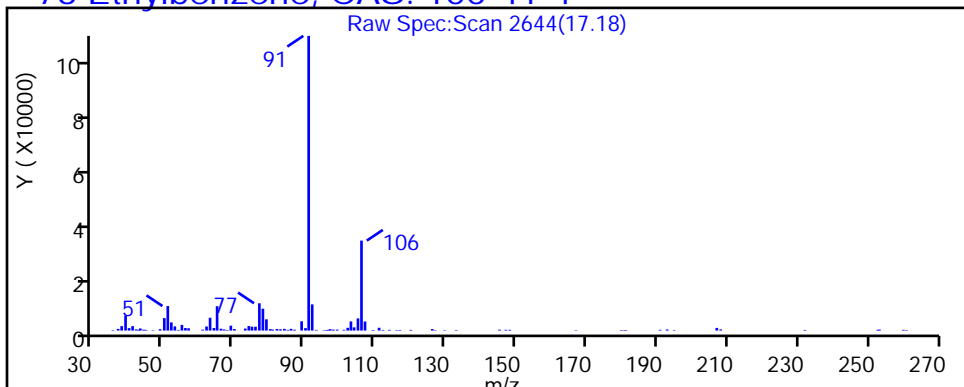
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

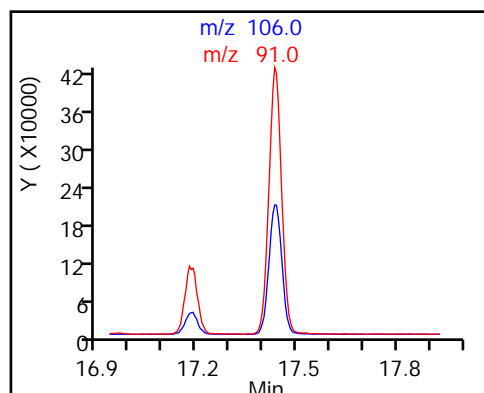
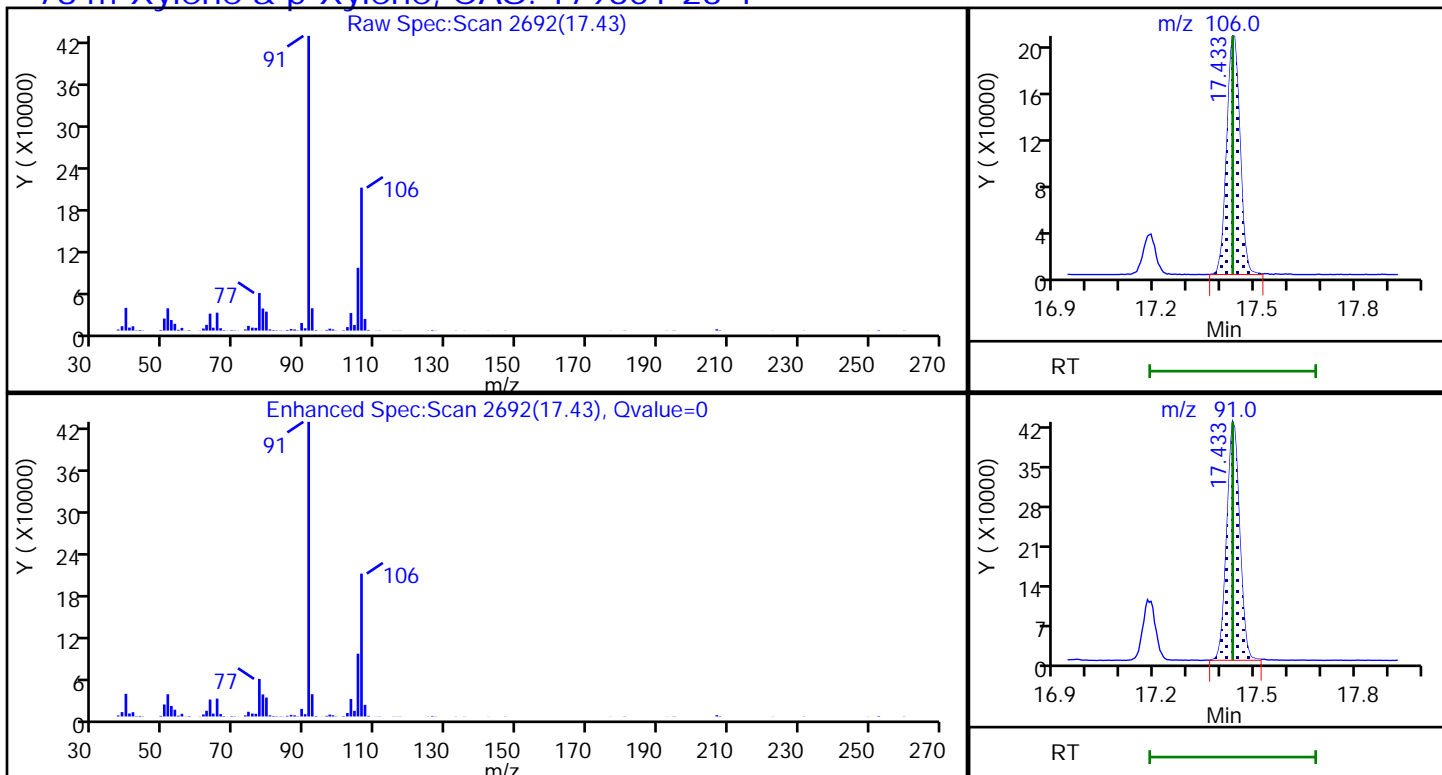
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D

Injection Date: 06-Dec-2018 07:42:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

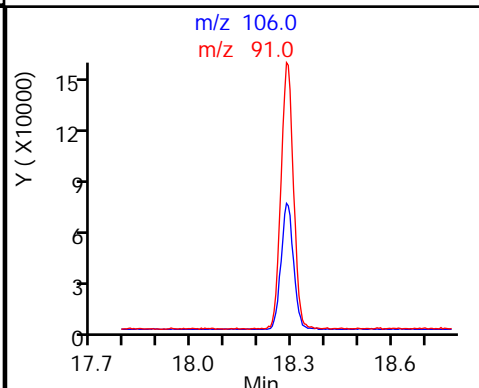
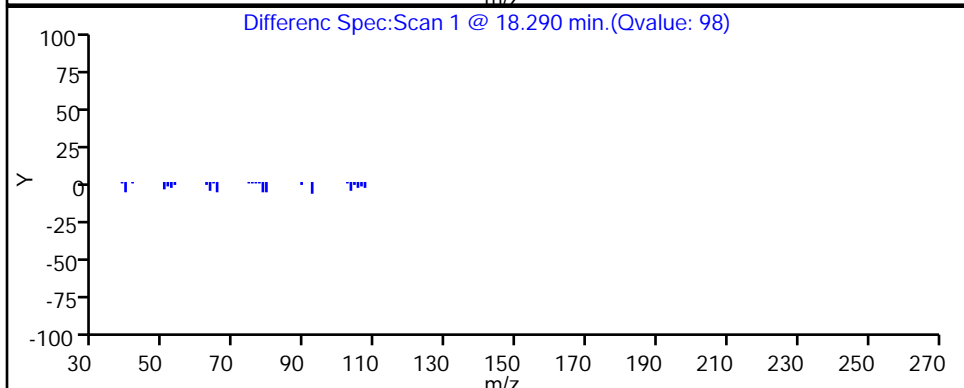
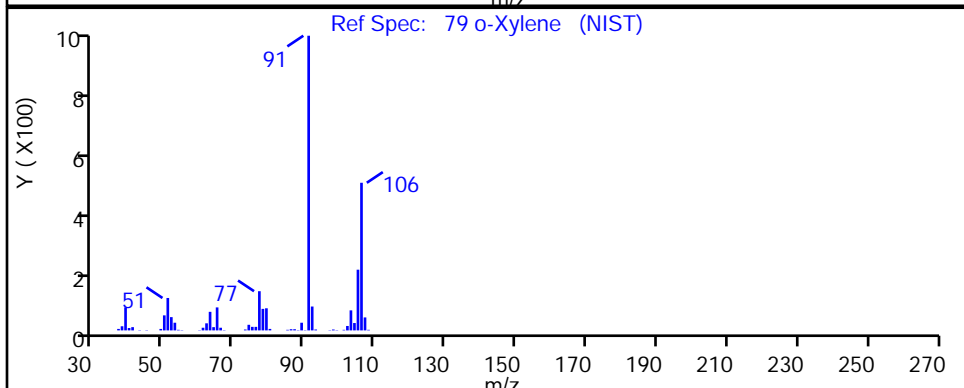
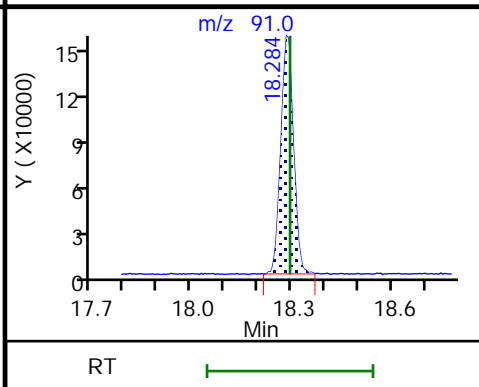
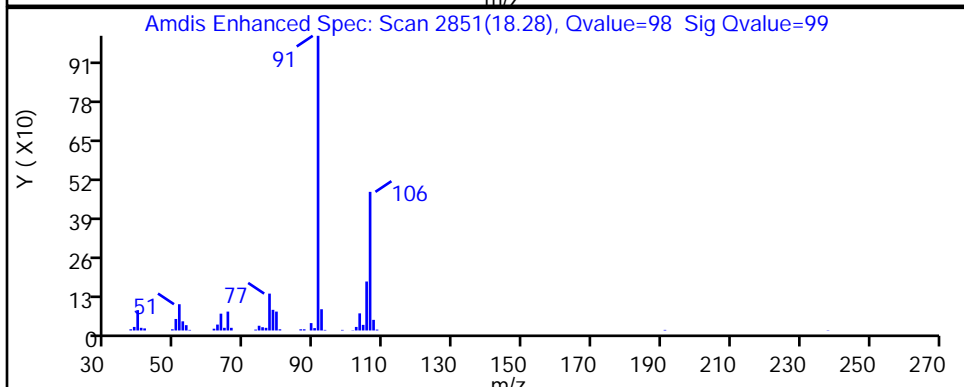
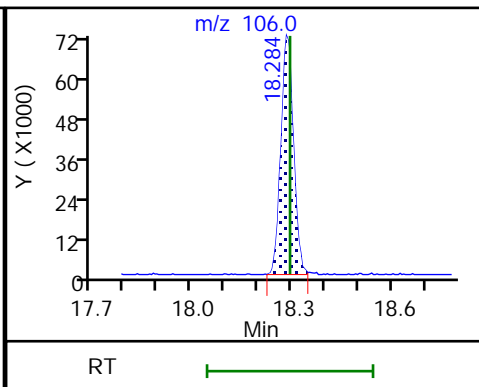
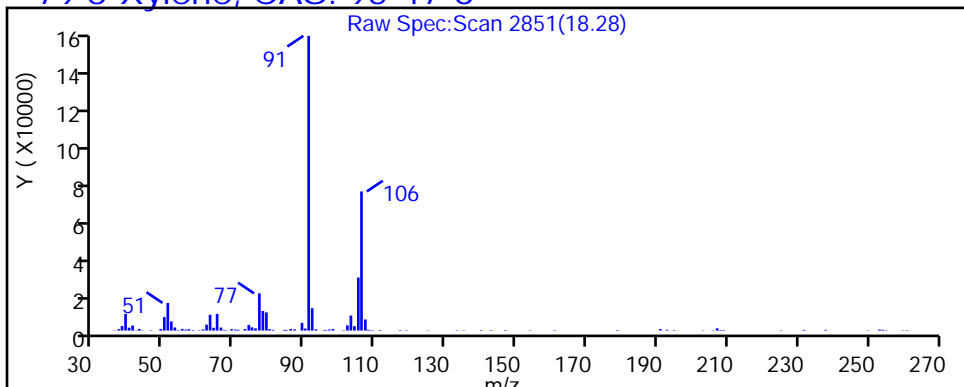
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

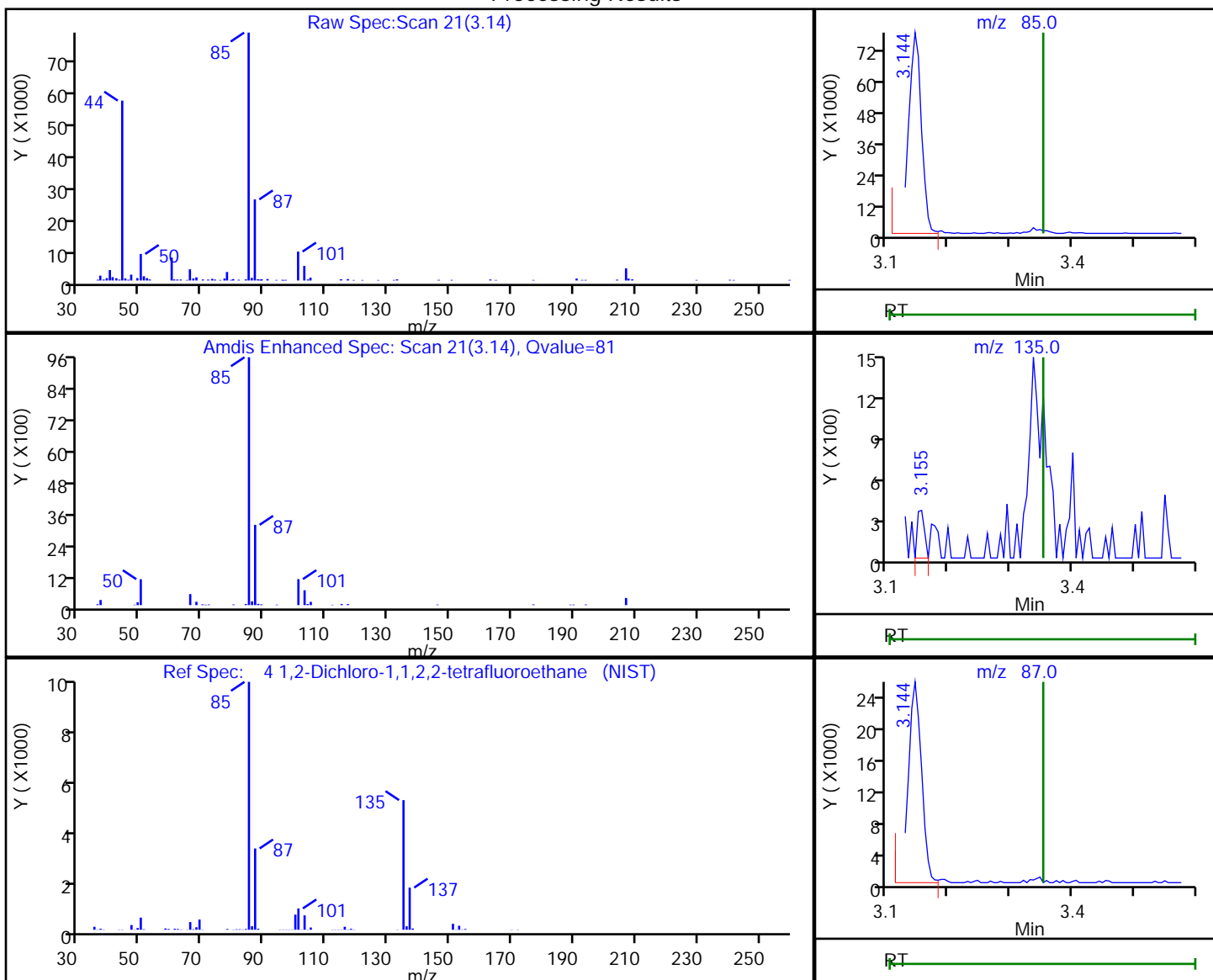


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 112663   | 0.677011 |
| 3.15 | 135.00 | 270      |          |
| 3.14 | 87.00  | 37793    |          |

Reviewer: bunmaa, 07-Dec-2018 09:17:58  
 Audit Action: Marked Compound Undetected

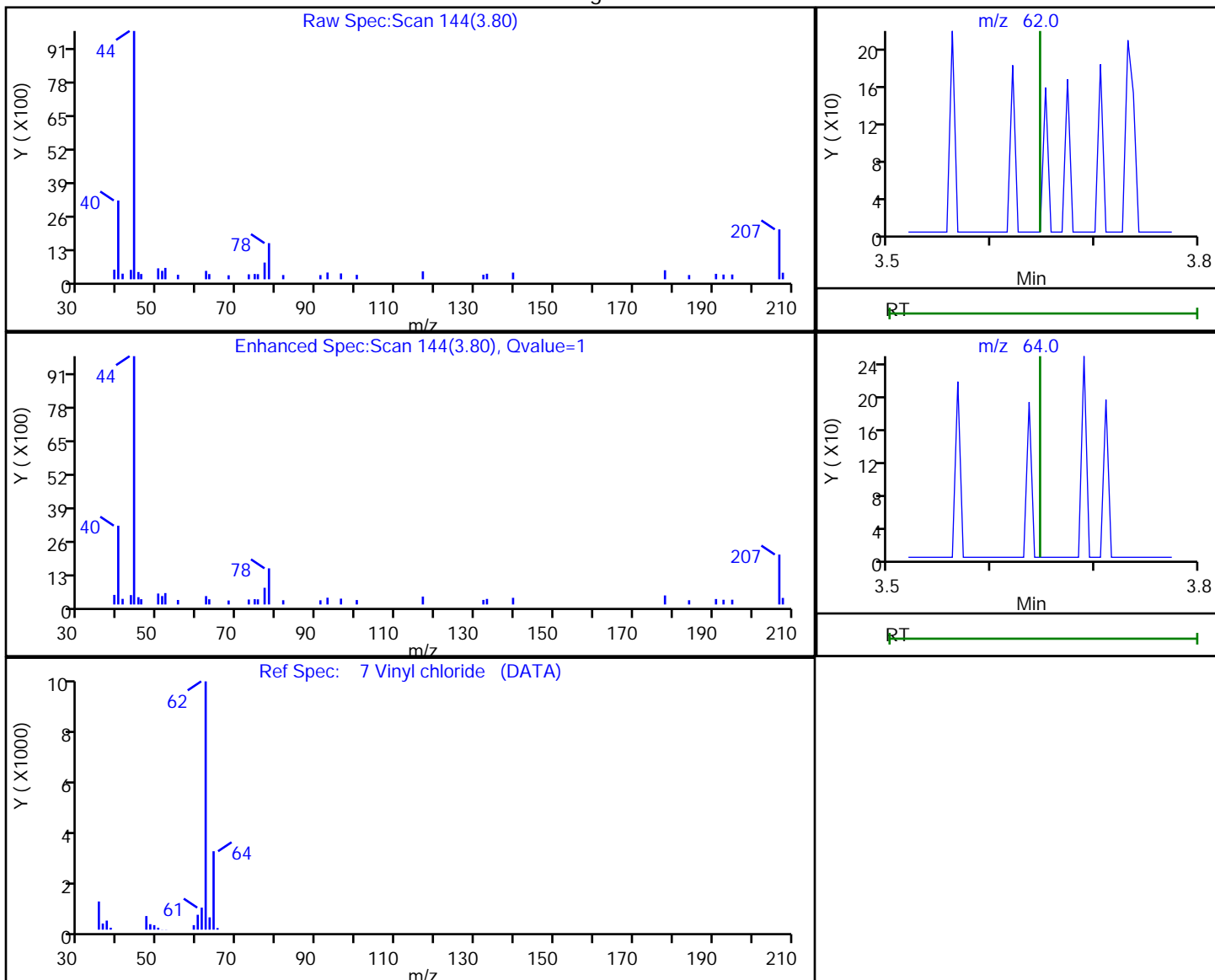
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.80 | 62.00 | 449      | 0.008669 |
| 3.65 | 64.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:35:01  
 Audit Action: Marked Compound Undetected

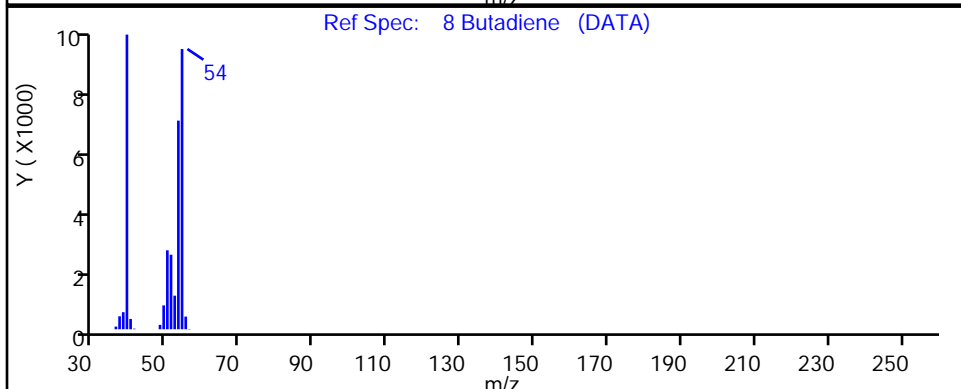
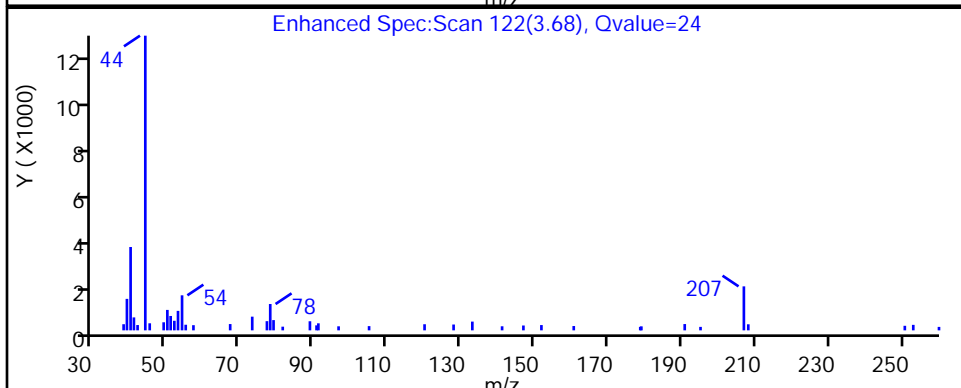
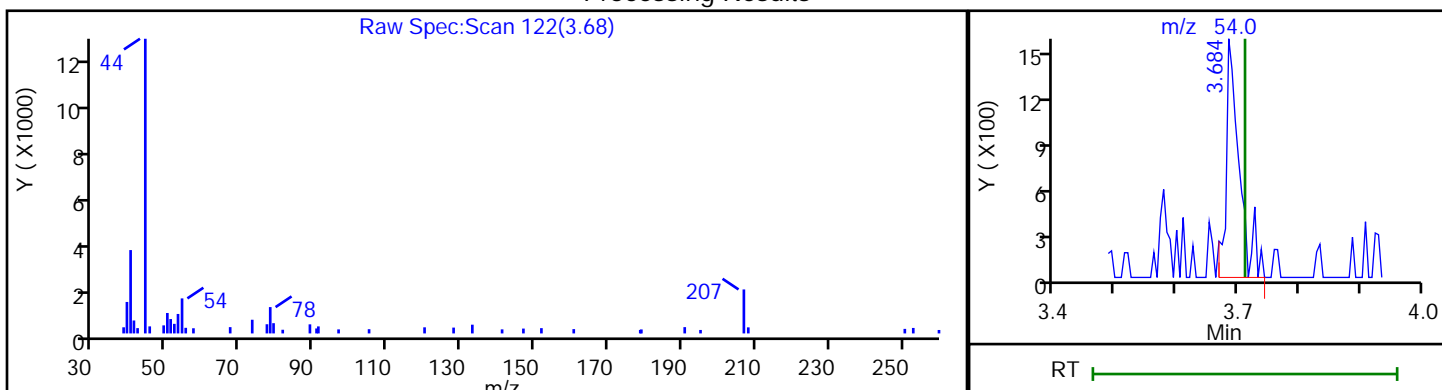
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.68 | 54.00 | 2280     | 0.070757 |

Reviewer: bunmaa, 07-Dec-2018 09:18:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

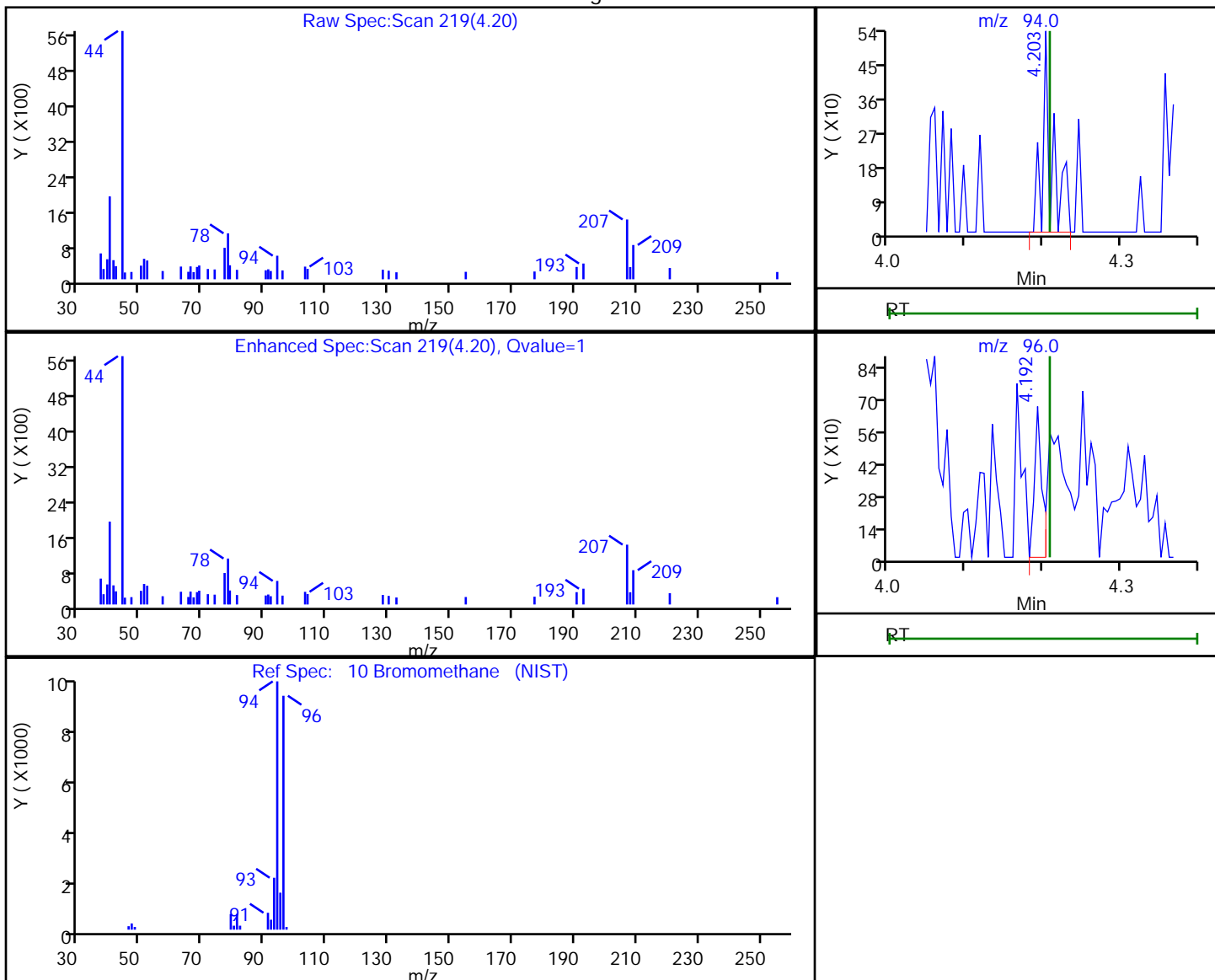


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.20 | 94.00 | 464      | 0.007760 |
| 4.19 | 96.00 | 454      |          |

Reviewer: bunmaa, 07-Dec-2018 09:18:16

Audit Action: Marked Compound Undetected

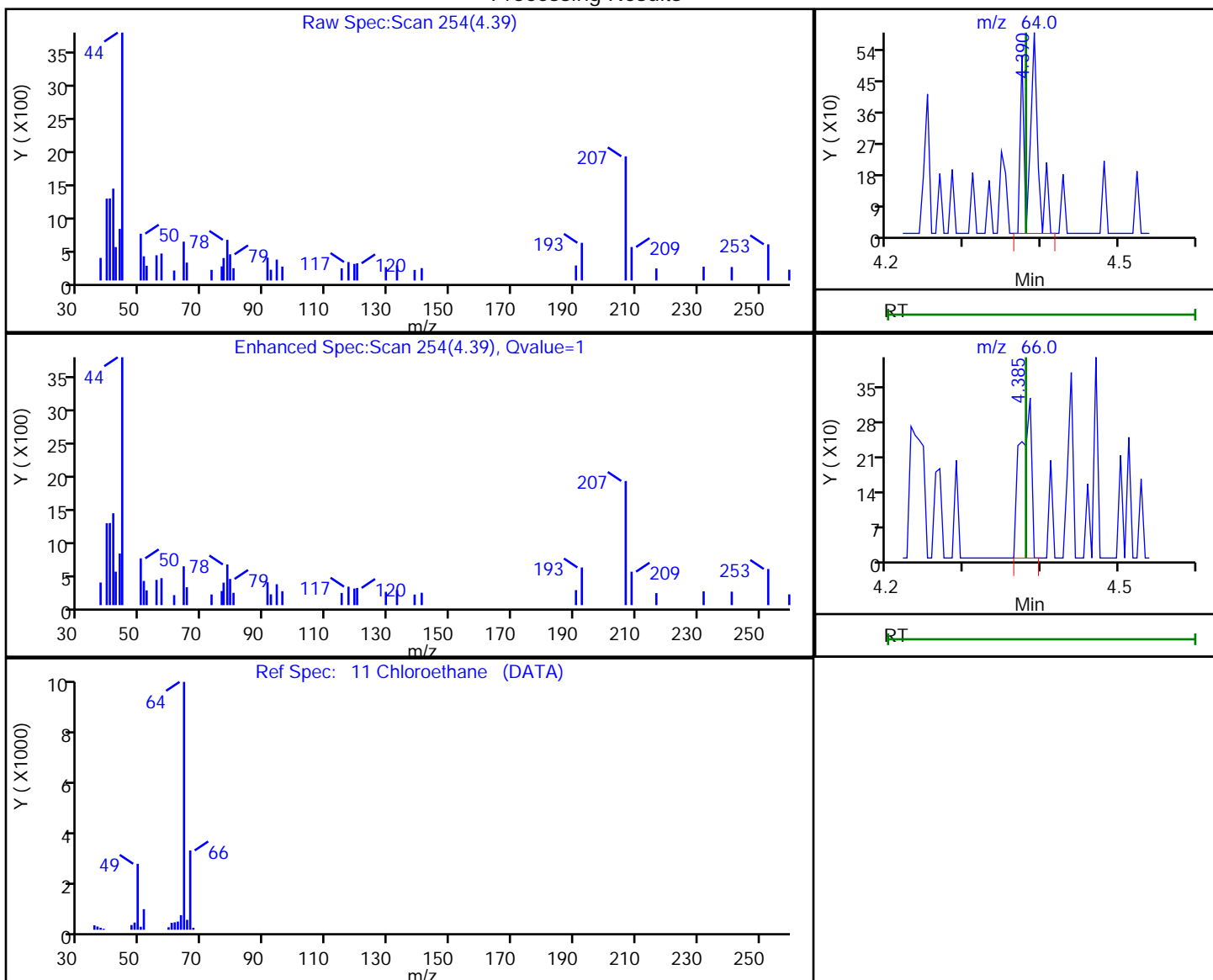
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

11 Chloroethane, CAS: 75-00-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.39 | 64.00 | 568      | 0.028498 |
| 4.39 | 66.00 | 327      |          |

Reviewer: bunmaa, 07-Dec-2018 09:18:19

Audit Action: Marked Compound Undetected

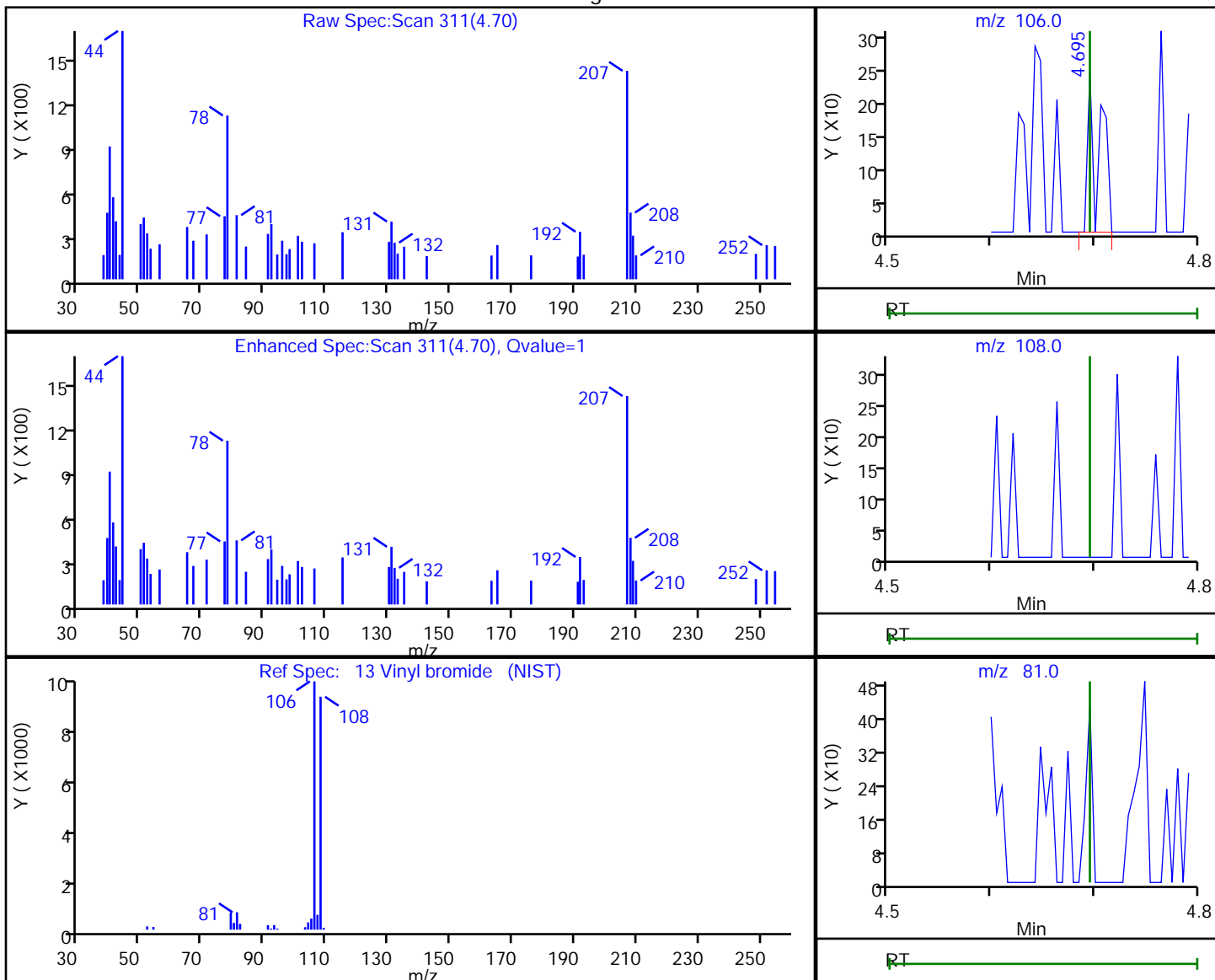
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.70 | 106.00 | 195      | 0.003298 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:18:21

Audit Action: Marked Compound Undetected

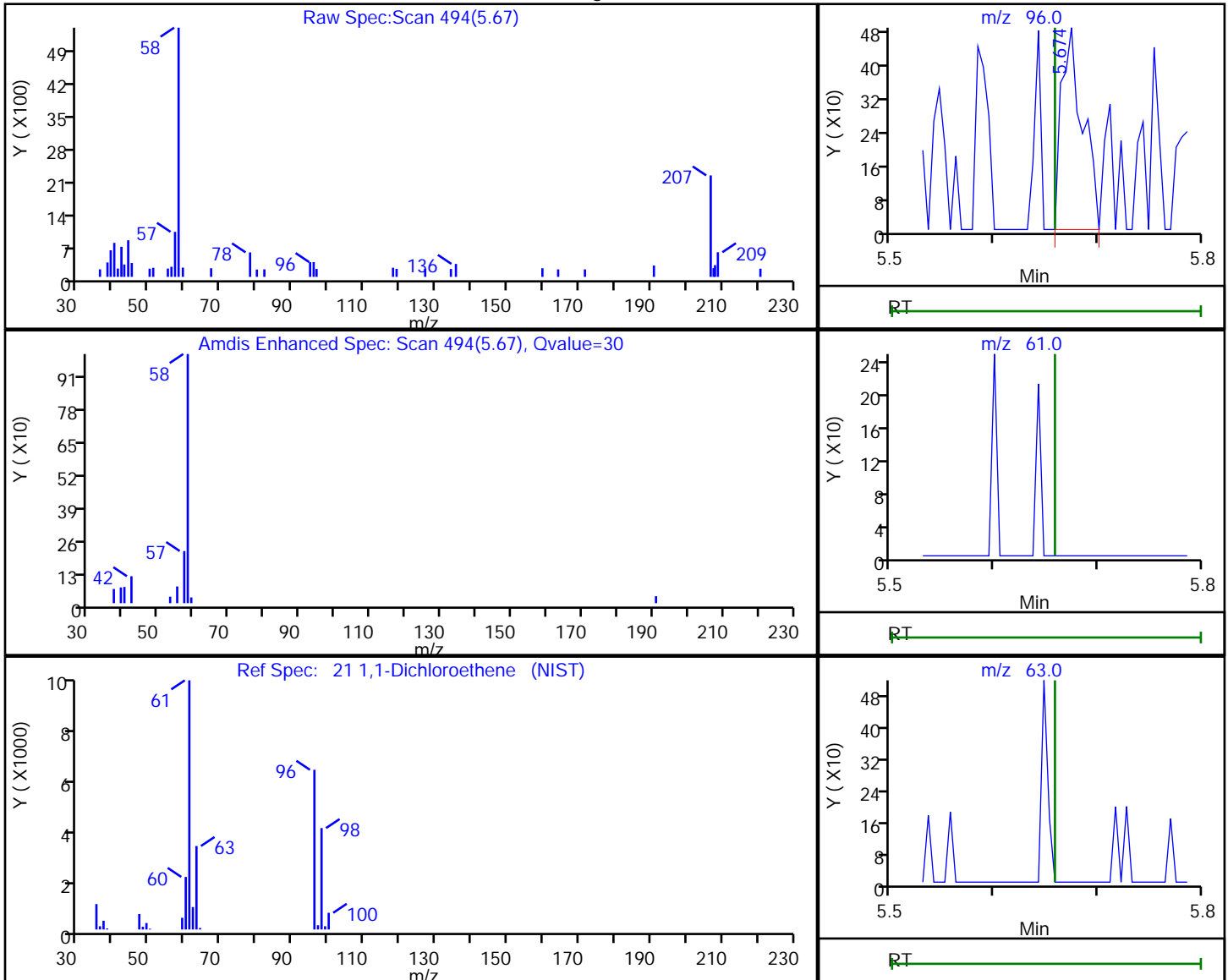
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.67 | 96.00 | 690      | 0.012735 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:18:27

Audit Action: Marked Compound Undetected

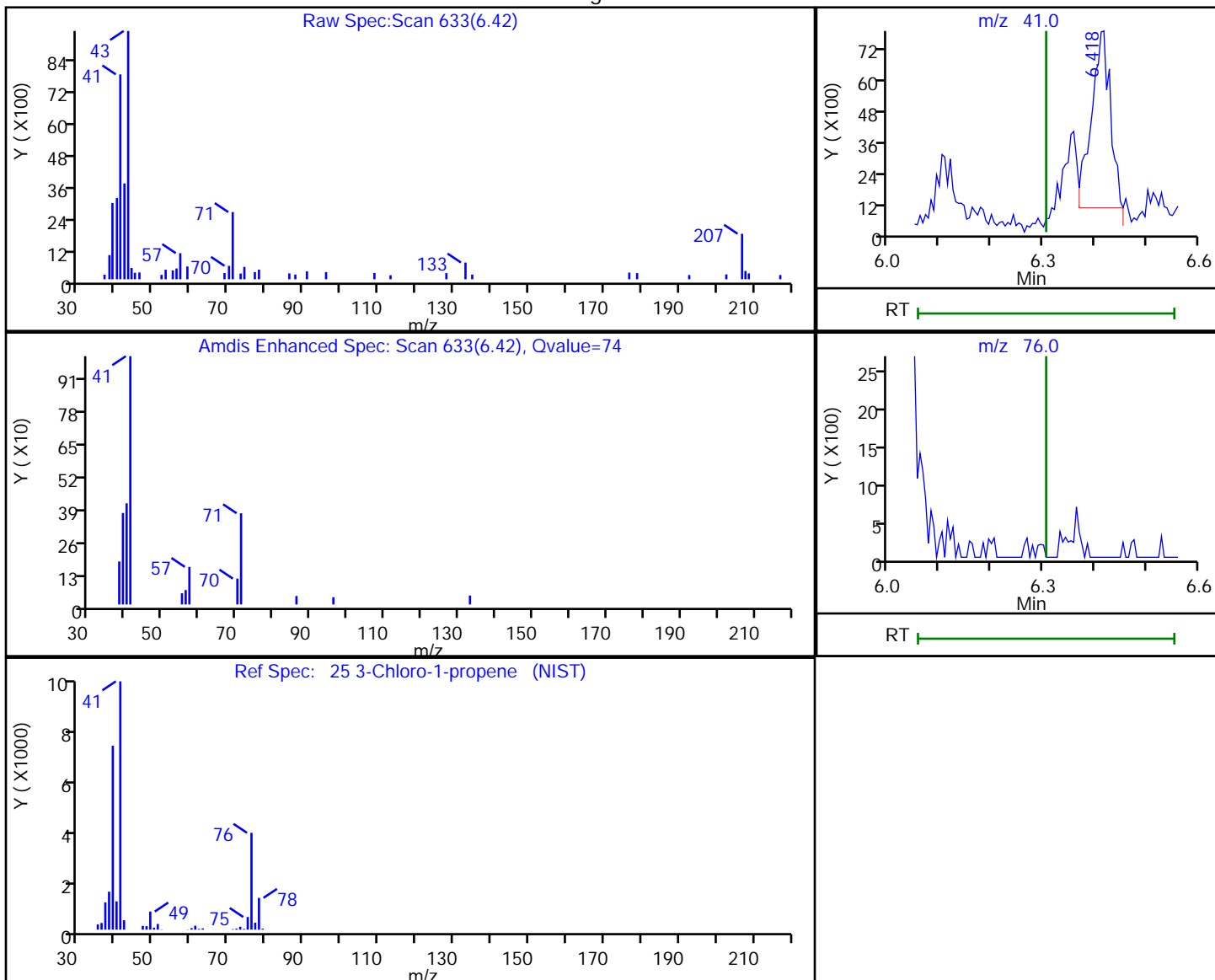
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.42 | 41.00 | 17526    | 0.434774 |
| 6.31 | 76.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:35:35  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

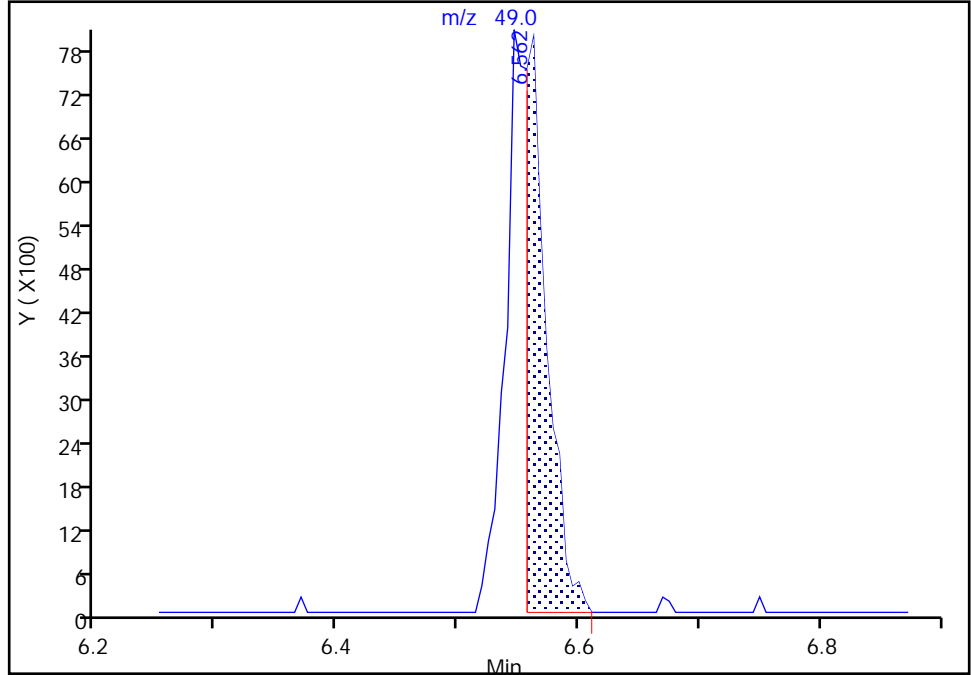
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Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

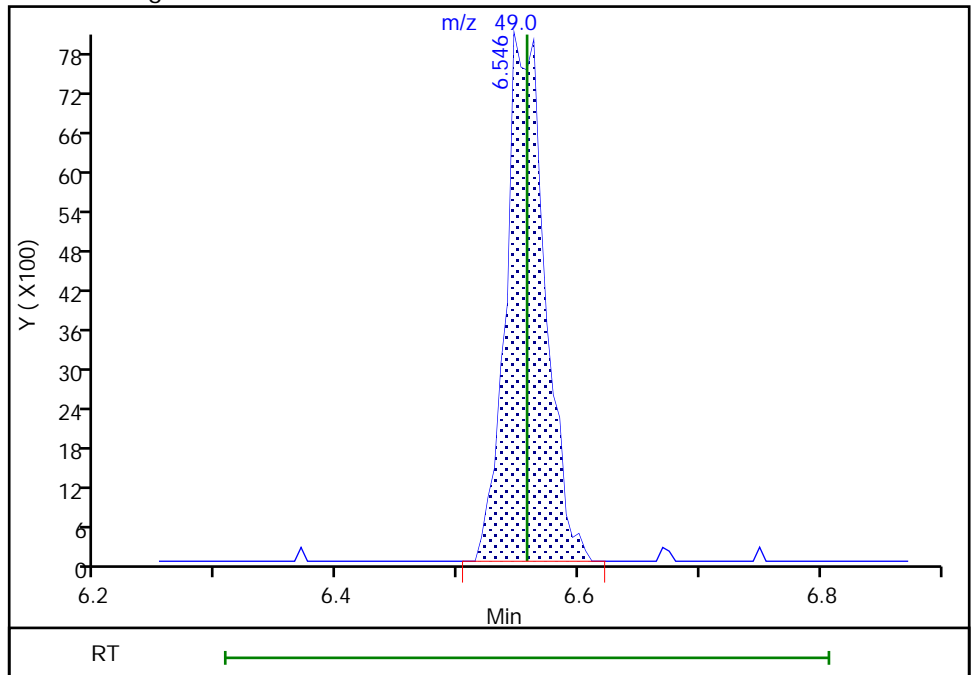
RT: 6.56  
Area: 9942  
Amount: 0.203318  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.55  
Area: 18083  
Amount: 0.369805  
Amount Units: ppb v/v

Manual Integration Results

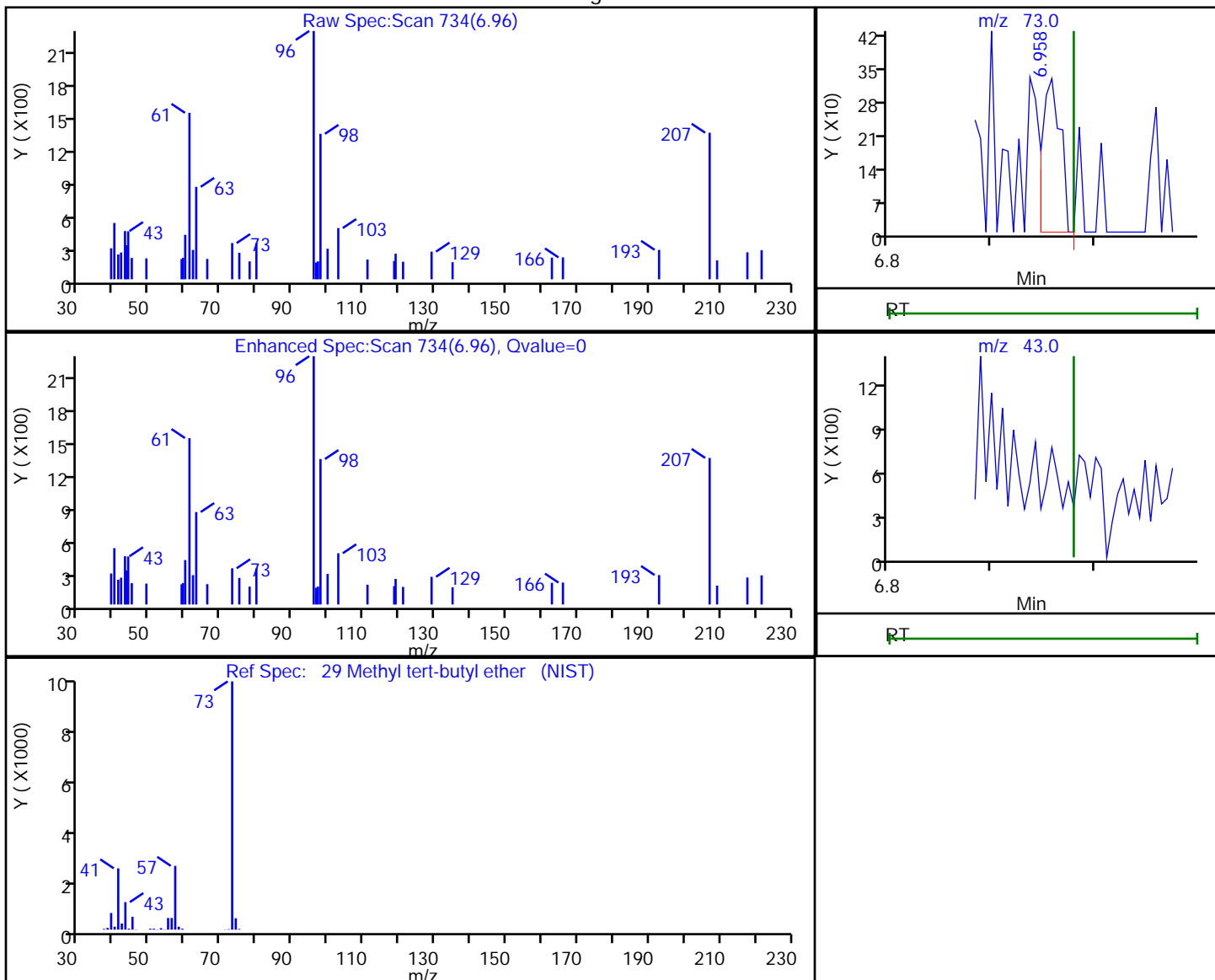


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.96 | 73.00 | 394      | 0.003740 |
| 6.98 | 43.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:18:56

Audit Action: Marked Compound Undetected

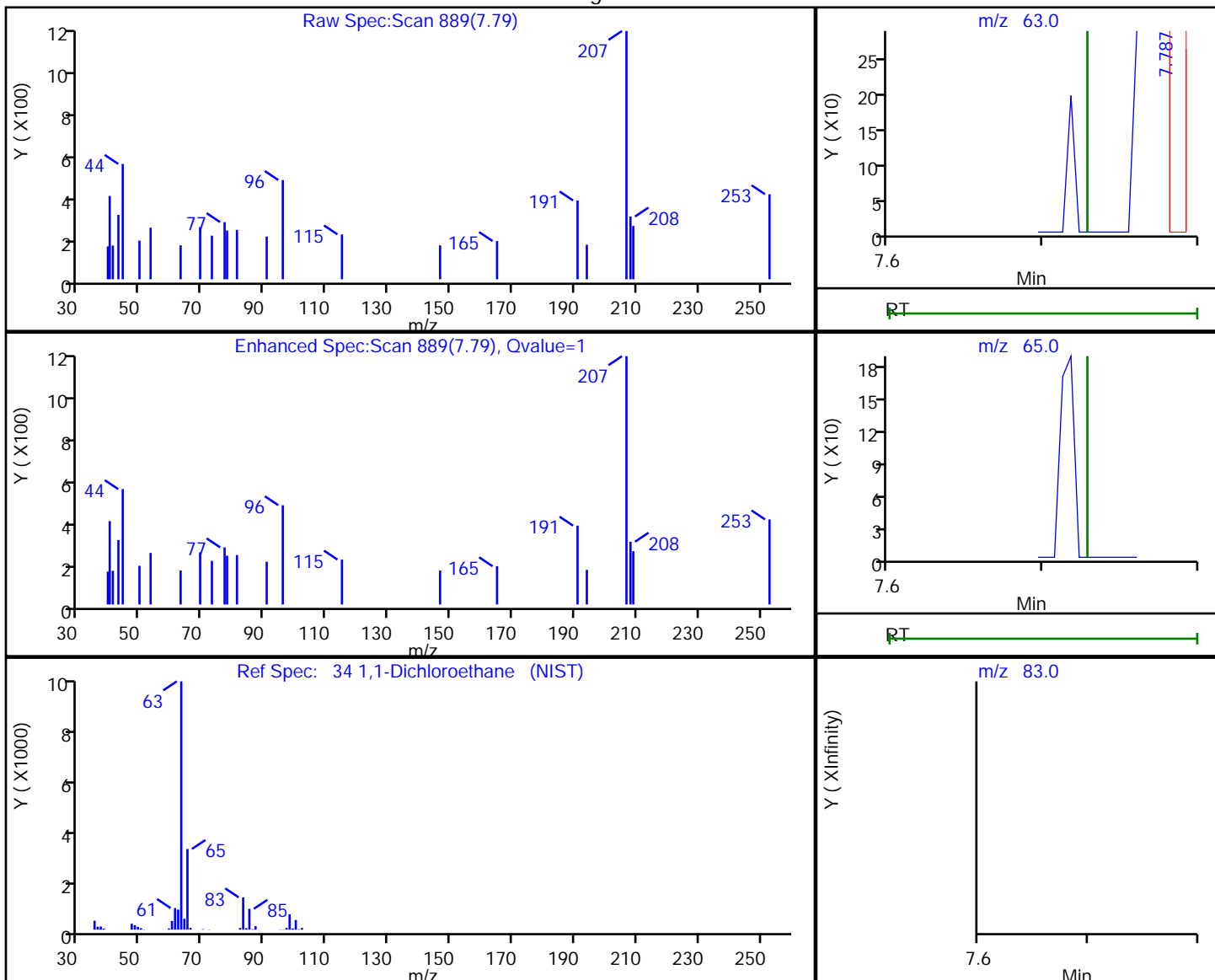
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.79 | 63.00 | 51       | 0.000602 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:19:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

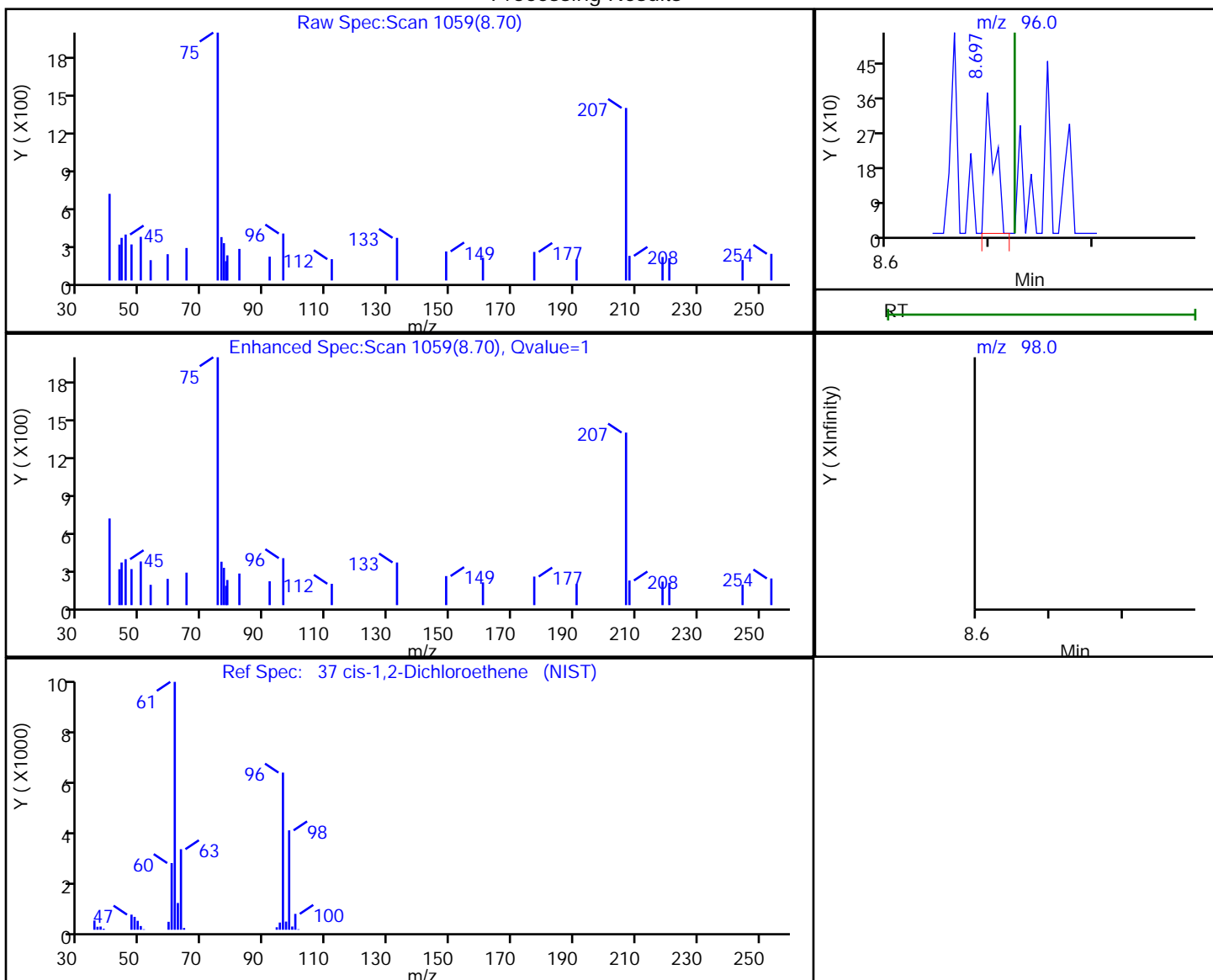


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.70 | 96.00 | 242      | 0.004715 |
| 8.72 | 98.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:19:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

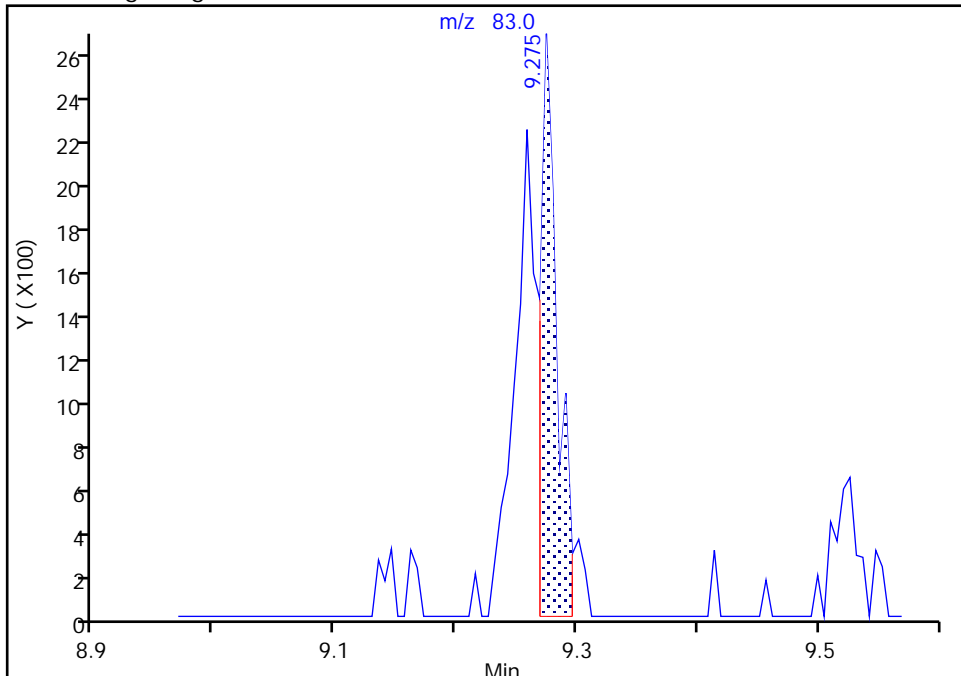
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

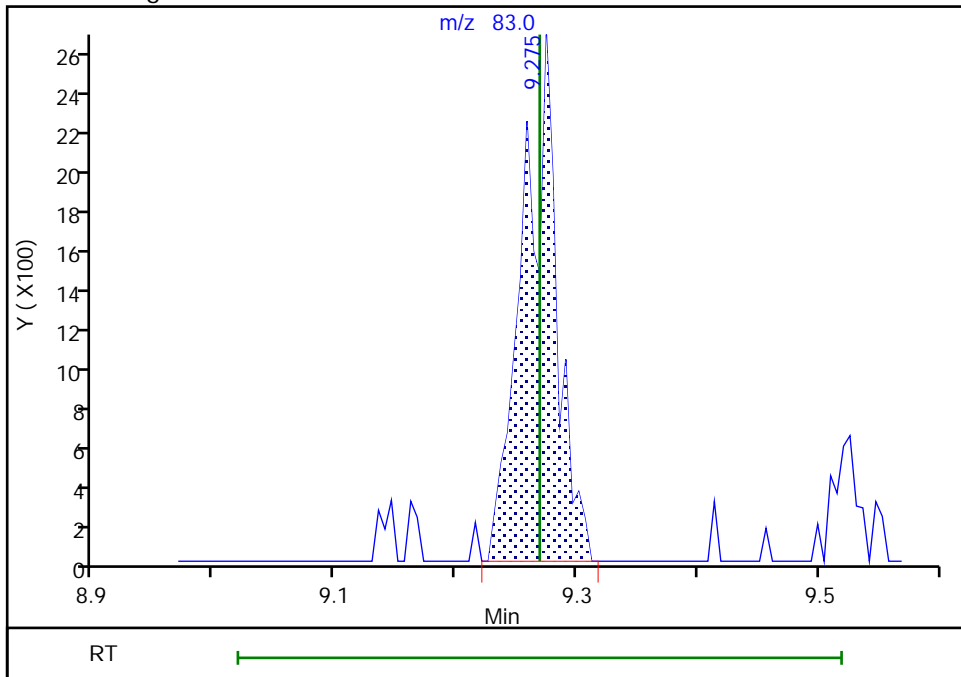
RT: 9.27  
Area: 2535  
Amount: 0.020476  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.27  
Area: 5141  
Amount: 0.041525  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:19:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

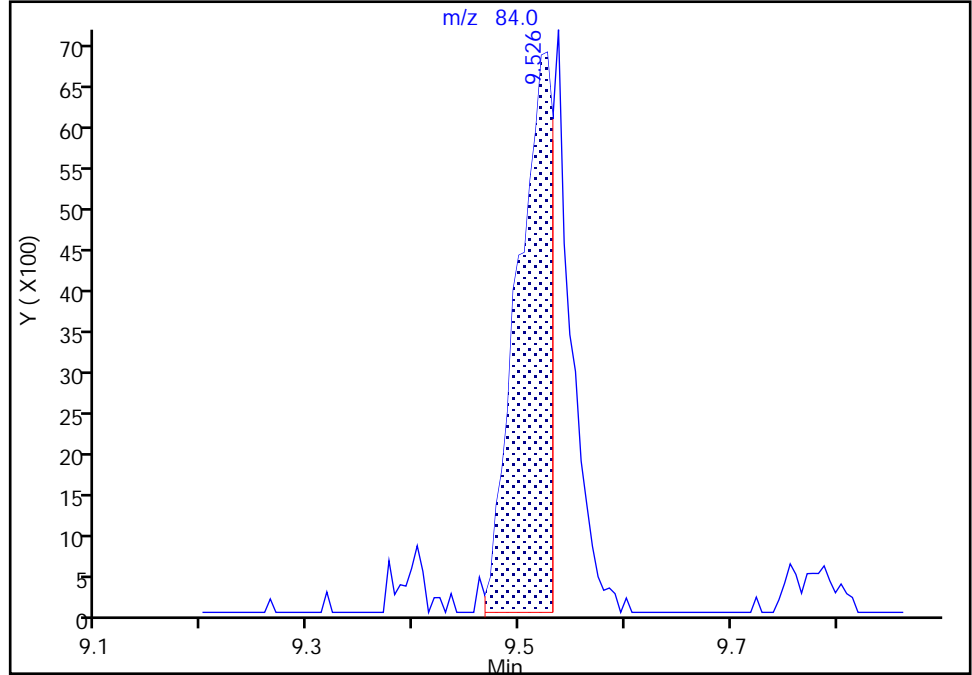
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

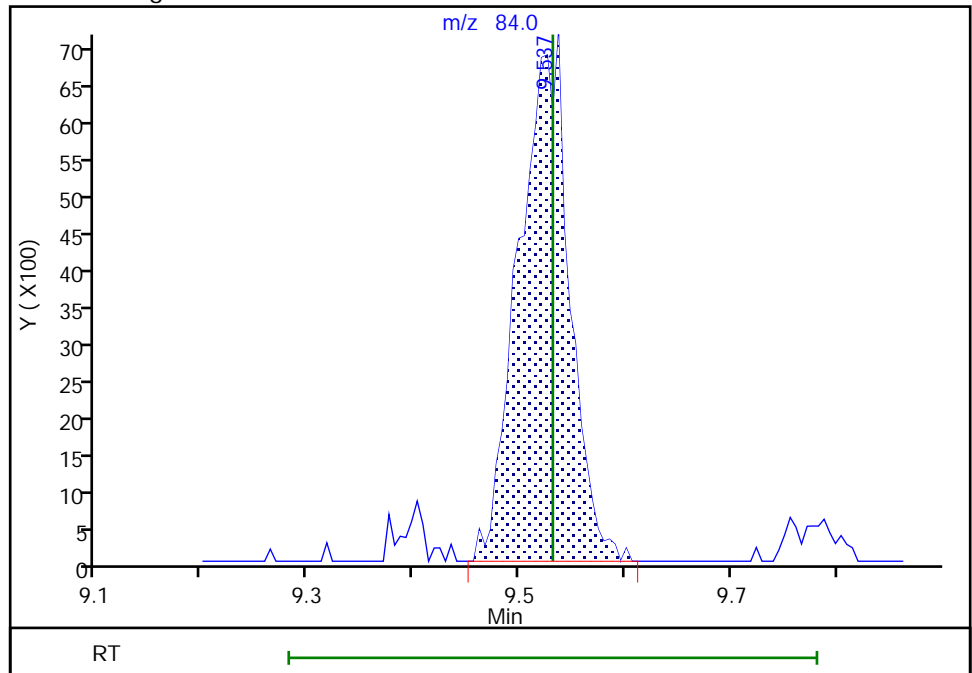
RT: 9.53  
Area: 15914  
Amount: 0.263276  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.54  
Area: 23531  
Amount: 0.389288  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:36:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

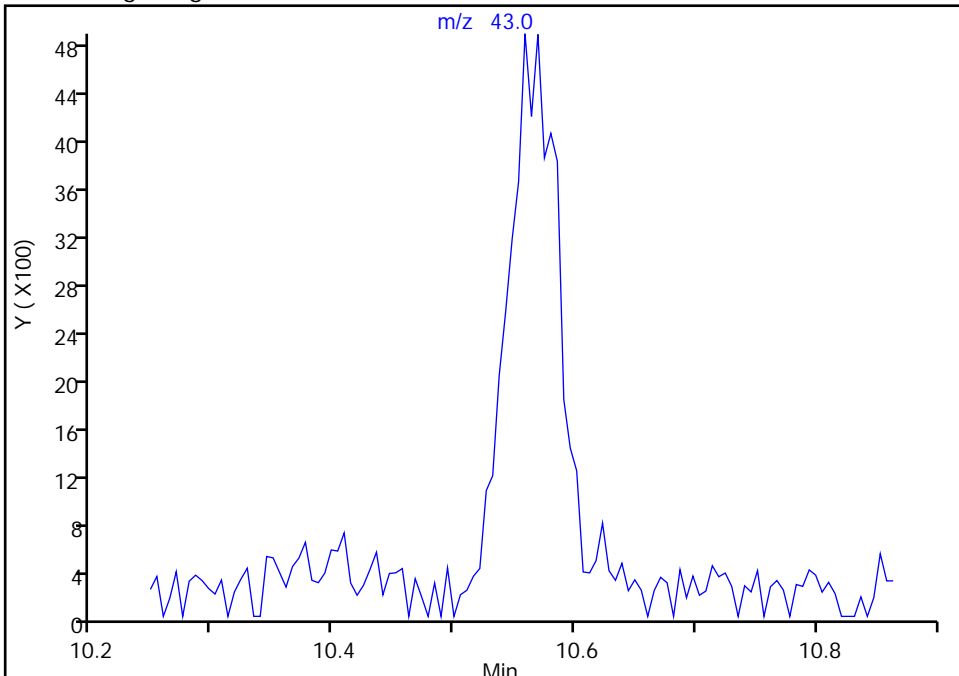
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

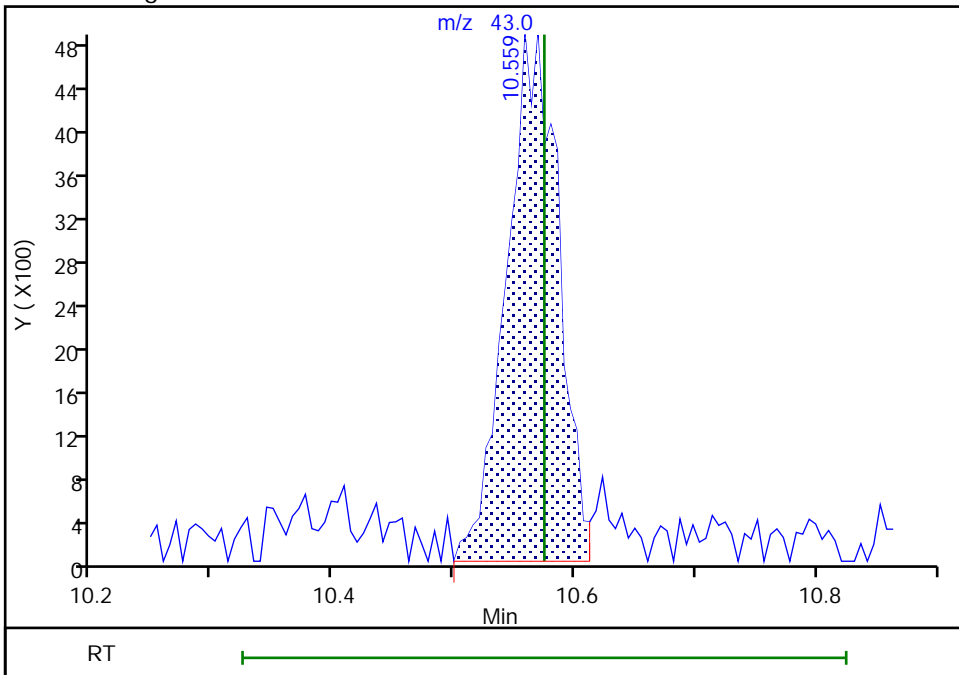
Not Detected  
Expected RT: 10.57

Processing Integration Results



Manual Integration Results

RT: 10.56  
Area: 14617  
Amount: 0.202587  
Amount Units: ppb v/v



Reviewer: bunmaa, 07-Dec-2018 09:20:05  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

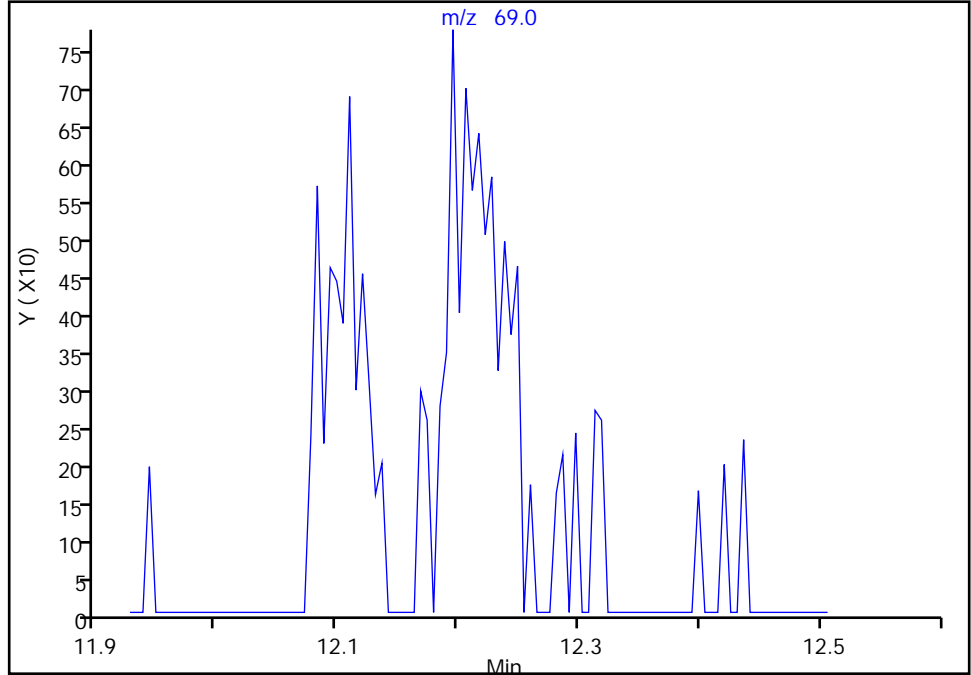
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

55 Methyl methacrylate, CAS: 80-62-6

Signal: 1

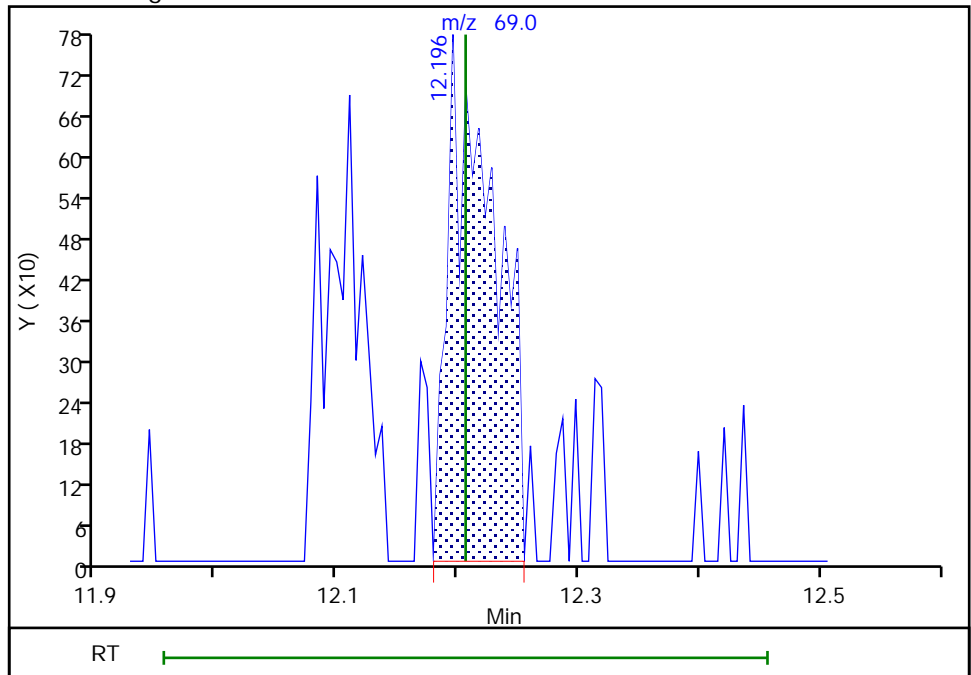
Not Detected  
Expected RT: 12.21

Processing Integration Results



Manual Integration Results

RT: 12.20  
Area: 2062  
Amount: 0.050501  
Amount Units: ppb v/v

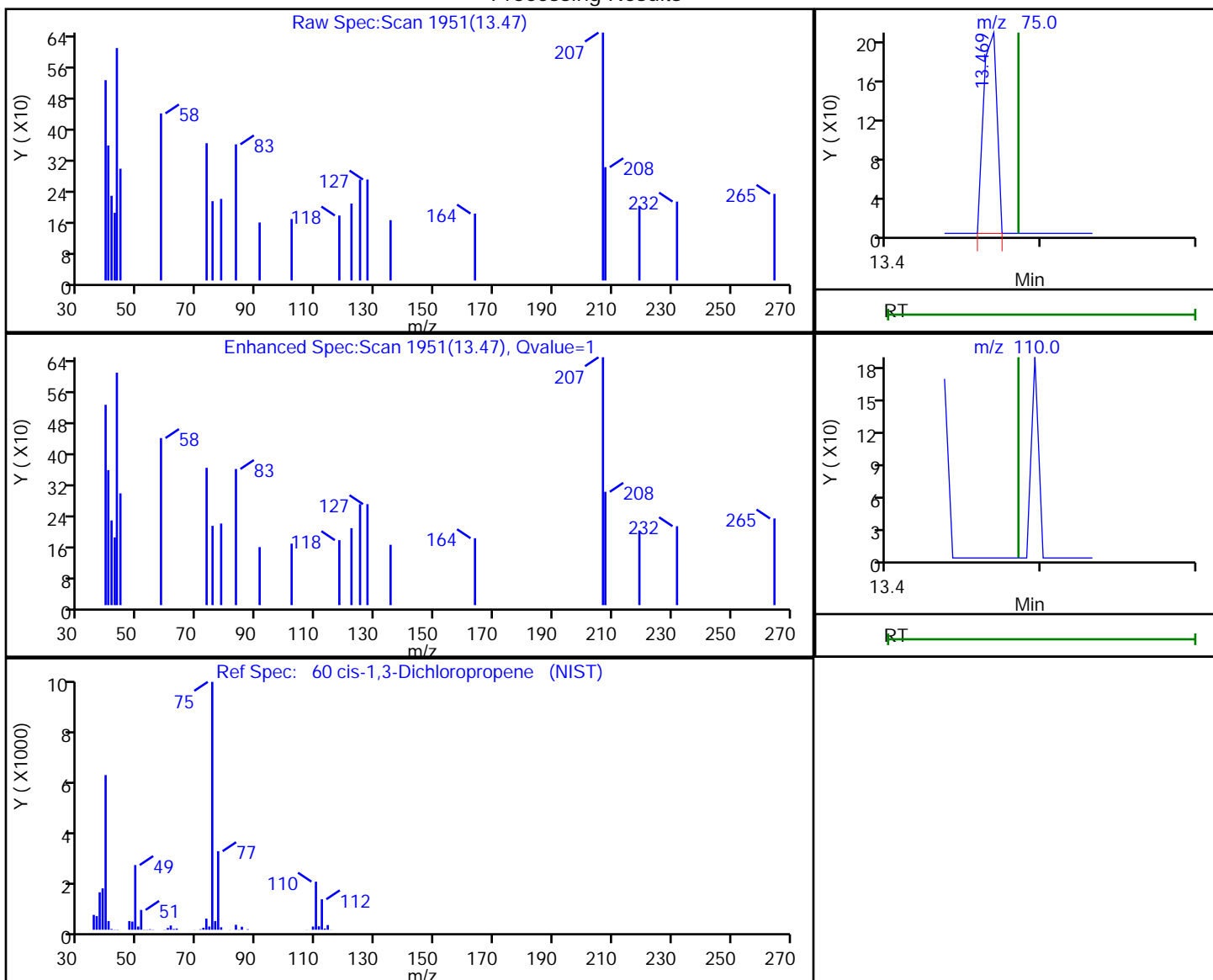


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.47 | 75.00  | 124      | 0.001405 |
| 13.48 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:36:27

Audit Action: Marked Compound Undetected

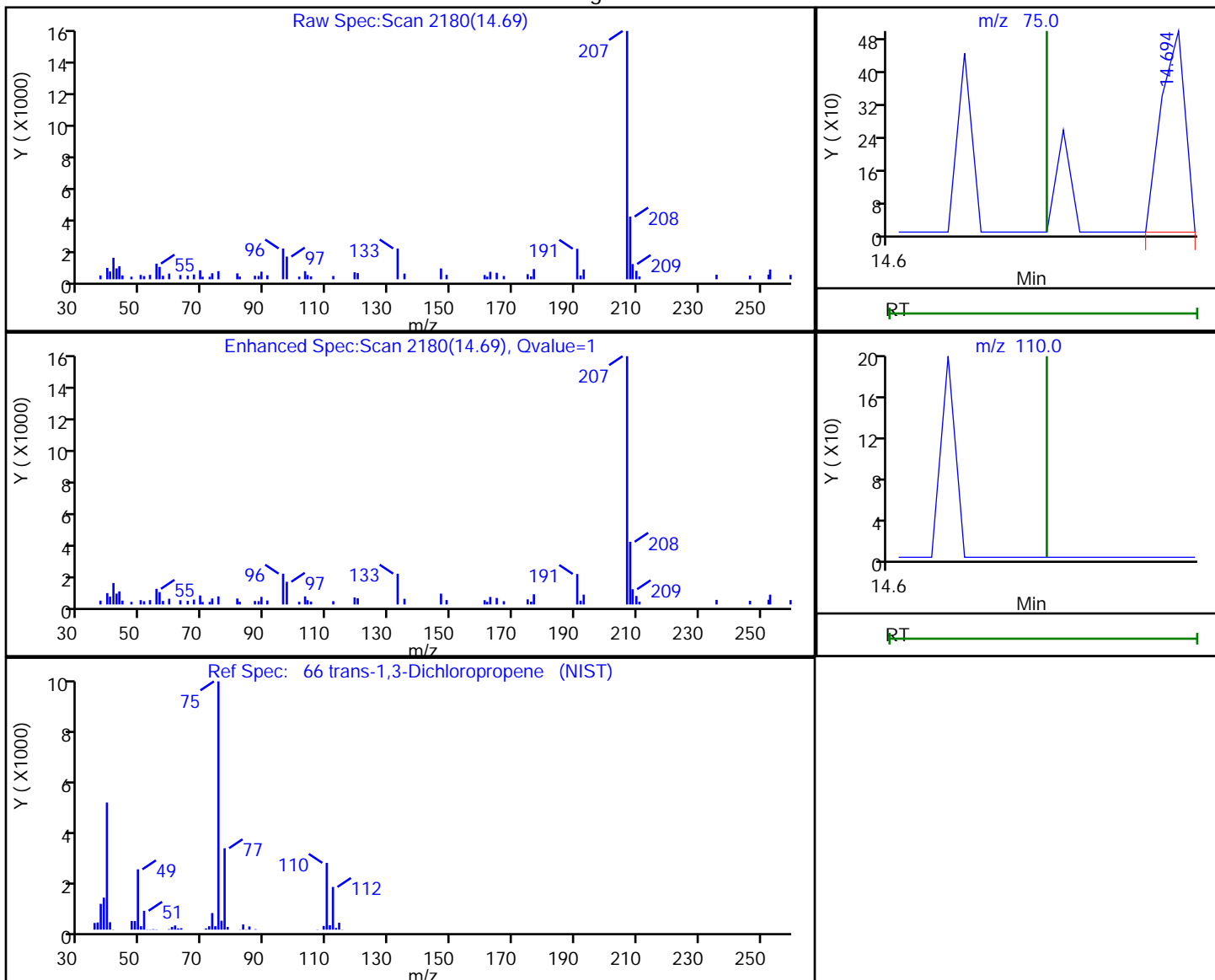
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.69 | 75.00  | 267      | 0.003077 |
| 14.65 | 110.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:36:30  
Audit Action: Marked Compound Undetected

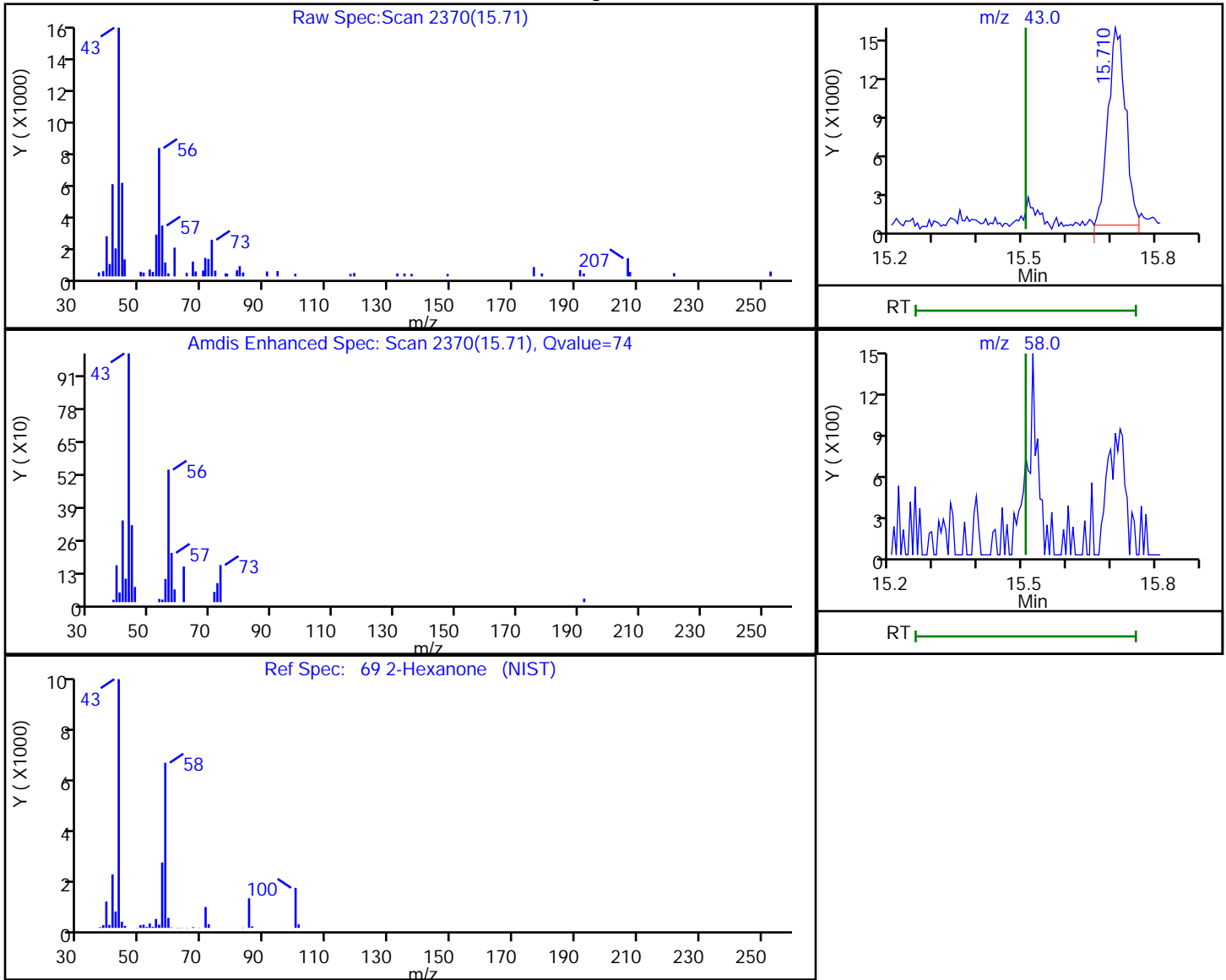
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.71 | 43.00 | 41785    | 0.469467 |
| 15.51 | 58.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:21:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

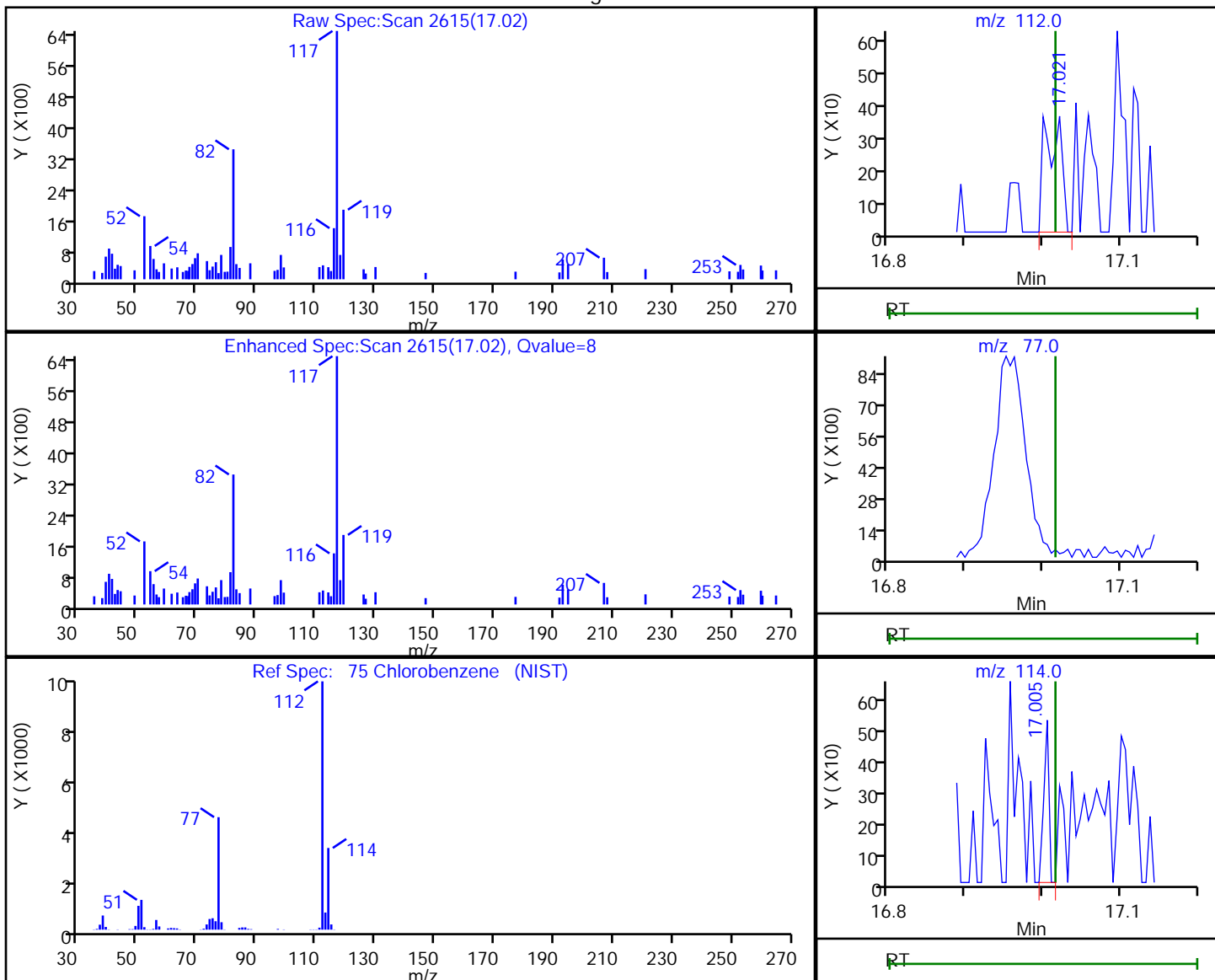


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.02 | 112.00 | 529      | 0.003396 |
| 17.02 | 77.00  | 0        |          |
| 17.01 | 114.00 | 246      |          |

Reviewer: bunmaa, 07-Dec-2018 09:21:16  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

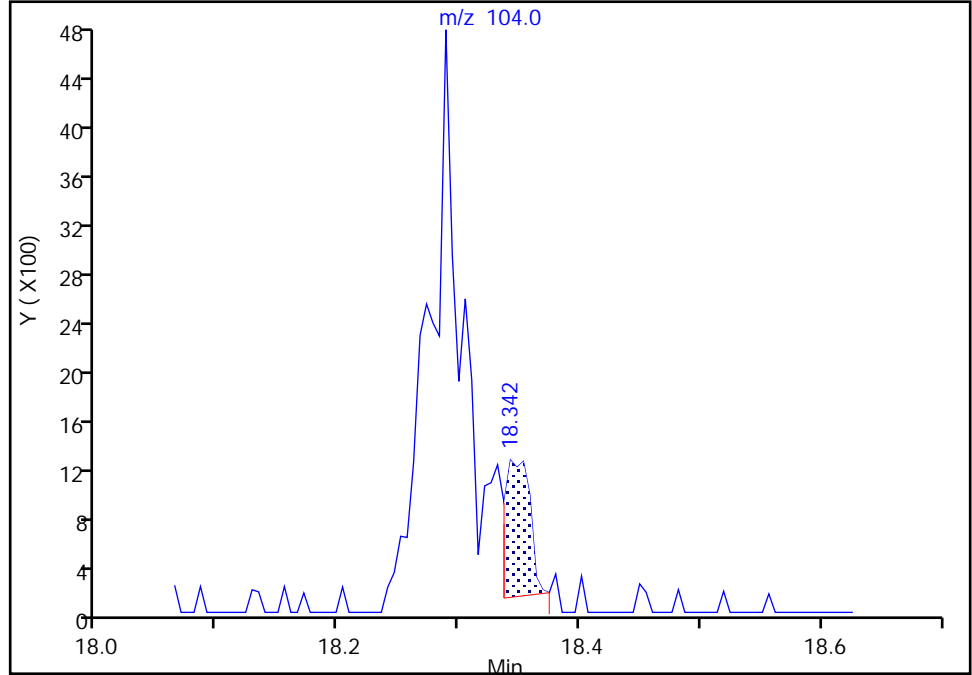
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Signal: 1

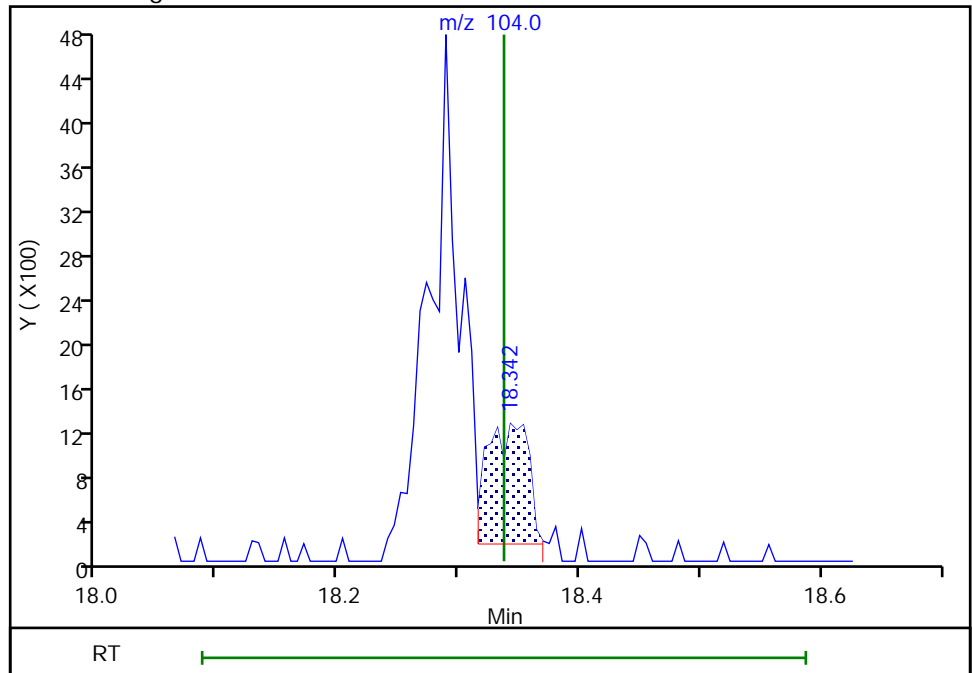
RT: 18.34  
Area: 1620  
Amount: 0.012046  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.34  
Area: 2587  
Amount: 0.019237  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:21:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

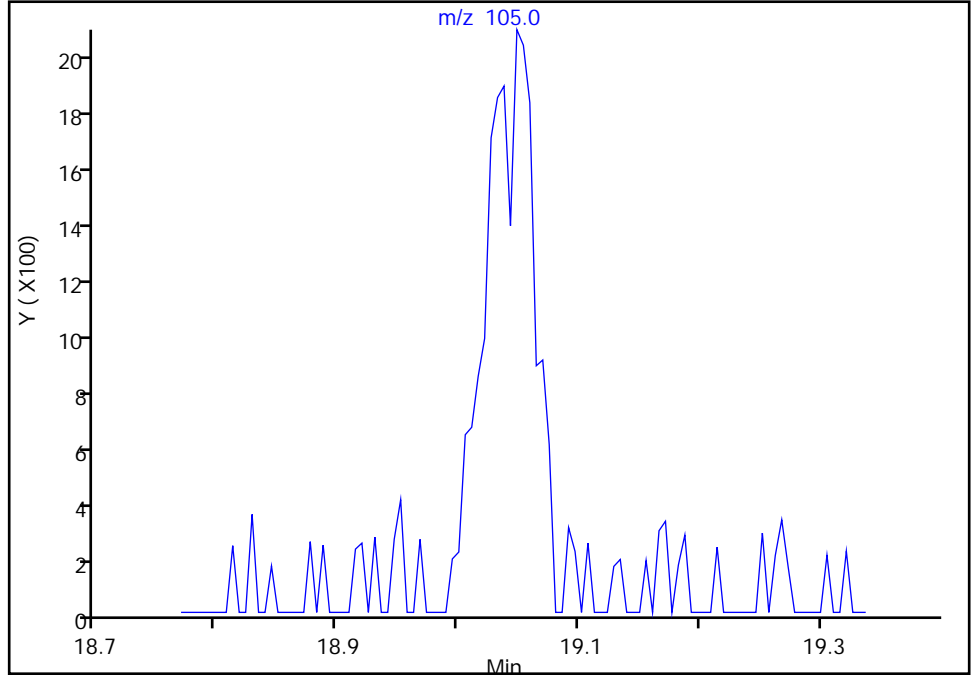
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Signal: 1

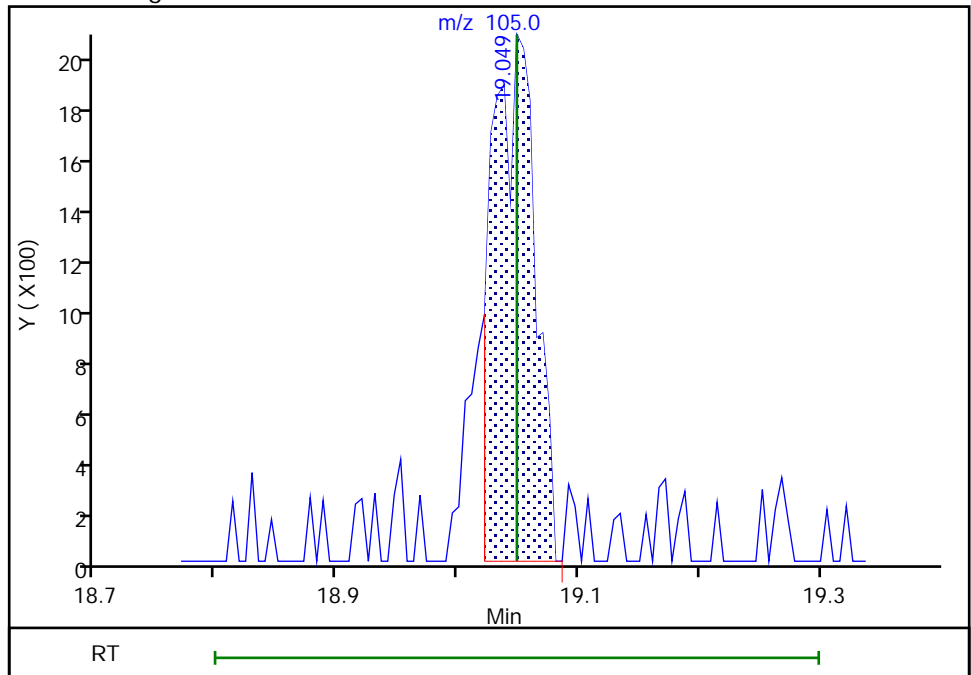
Not Detected  
Expected RT: 19.05

Processing Integration Results



Manual Integration Results

RT: 19.05  
Area: 5027  
Amount: 0.019570  
Amount Units: ppb v/v

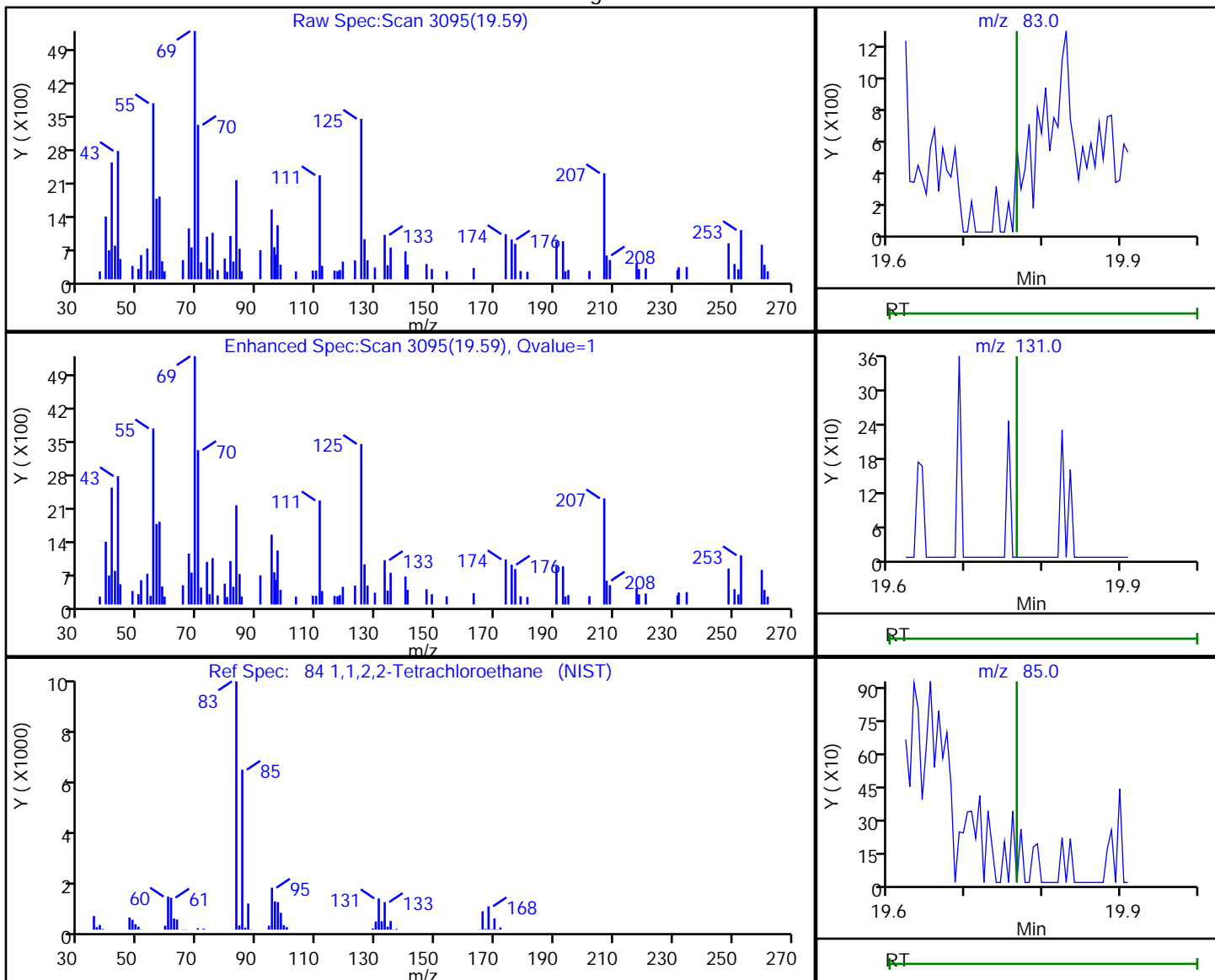


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.59 | 83.00  | 2738     | 0.019535 |
| 19.77 | 131.00 | 0        |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:36:46  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

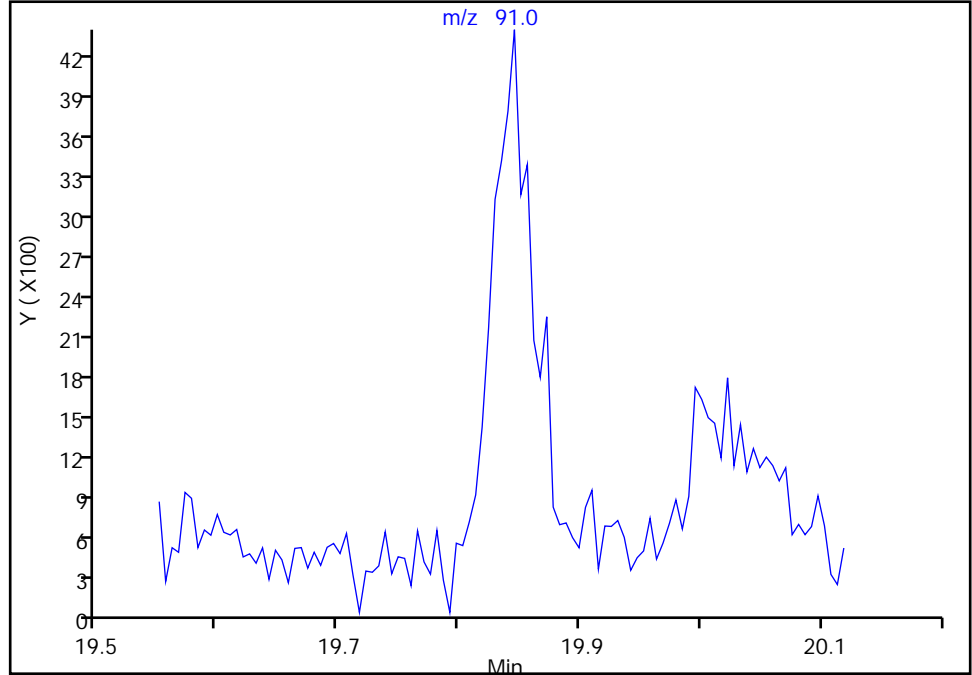
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

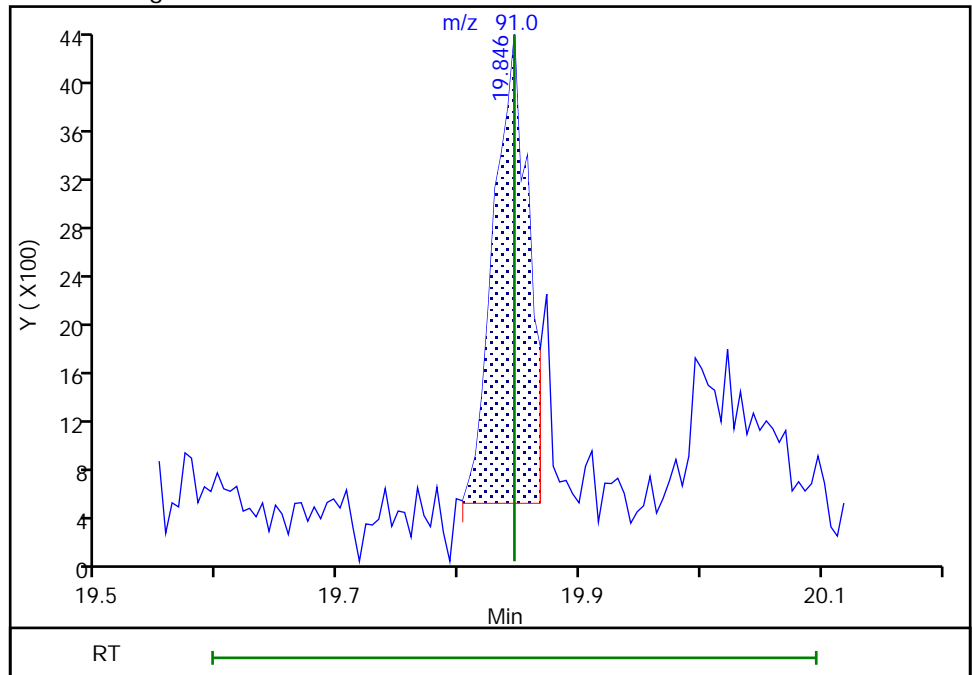
Not Detected  
Expected RT: 19.85

Processing Integration Results



Manual Integration Results

RT: 19.85  
Area: 7785  
Amount: 0.025451  
Amount Units: ppb v/v



Reviewer: bunmaa, 07-Dec-2018 09:22:38

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

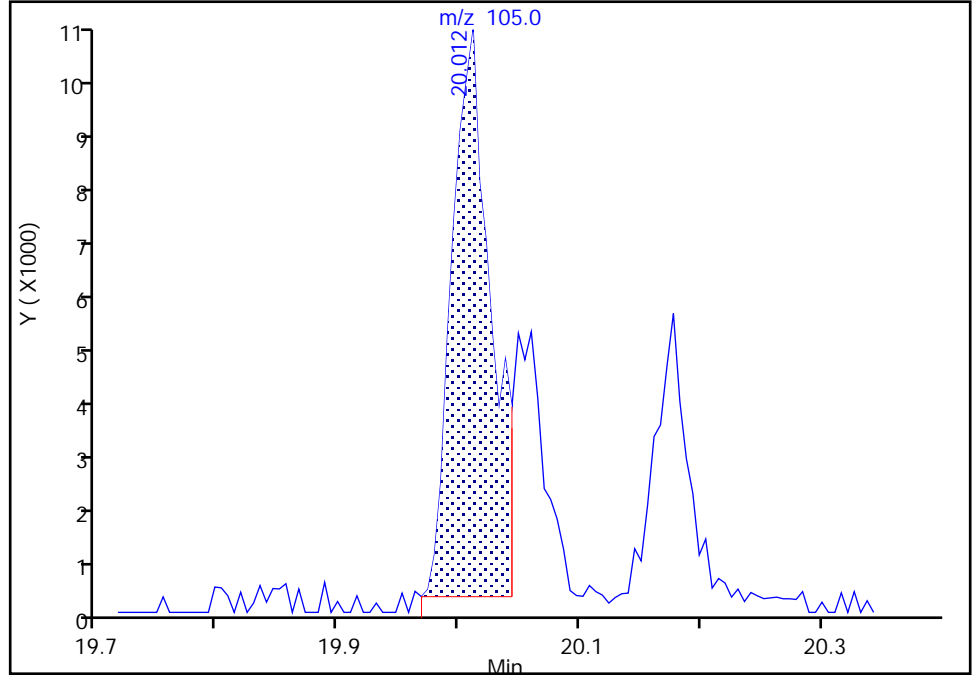
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

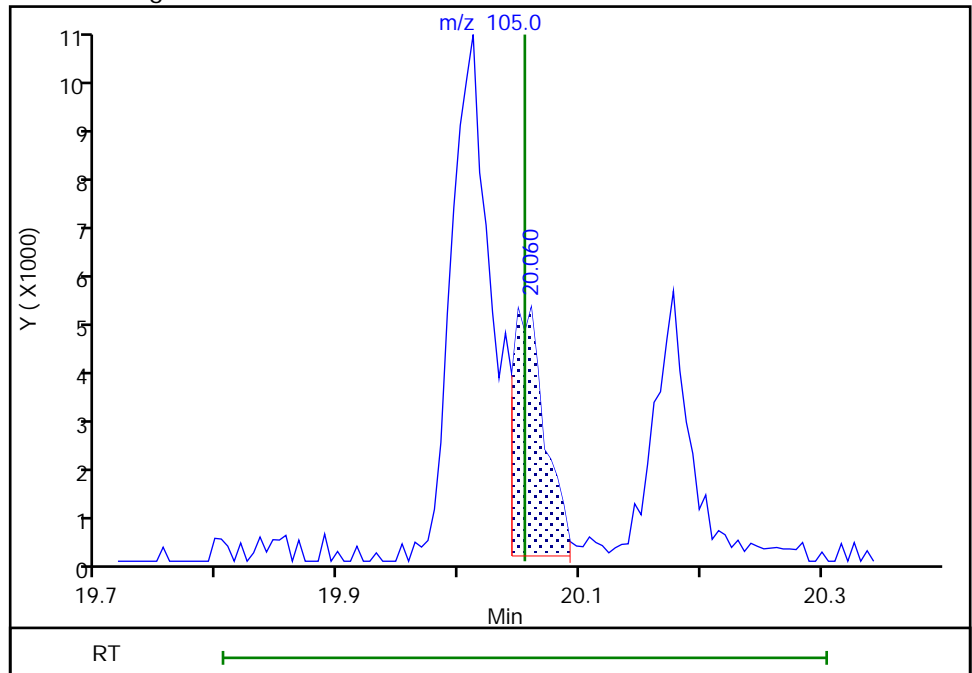
RT: 20.01  
Area: 22147  
Amount: 0.085052  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.06  
Area: 8807  
Amount: 0.033822  
Amount Units: ppb v/v

Manual Integration Results

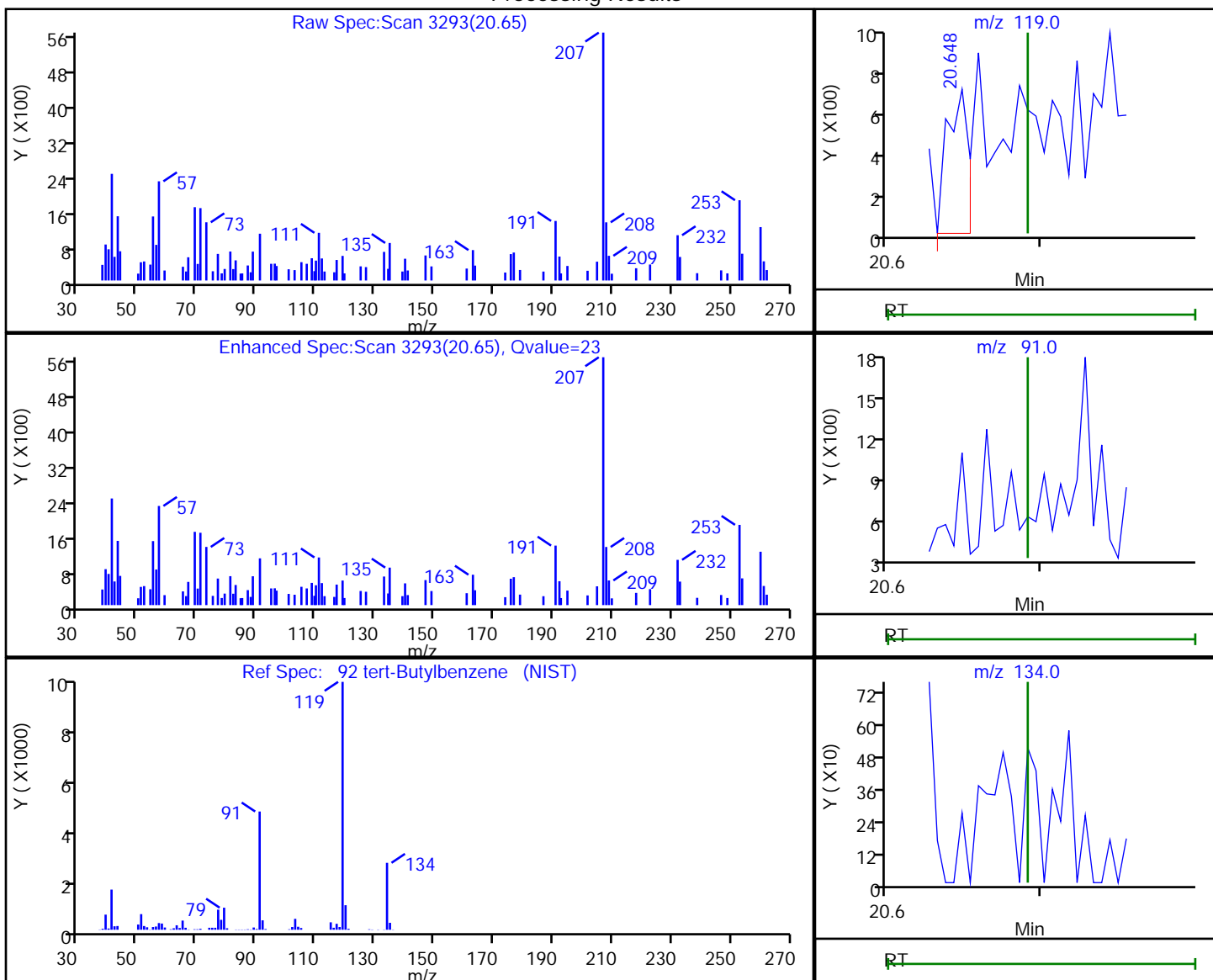


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.65 | 119.00 | 695      | 0.003335 |
| 20.69 | 91.00  | 0        |          |
| 20.69 | 134.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:38:11  
 Audit Action: Marked Compound Undetected

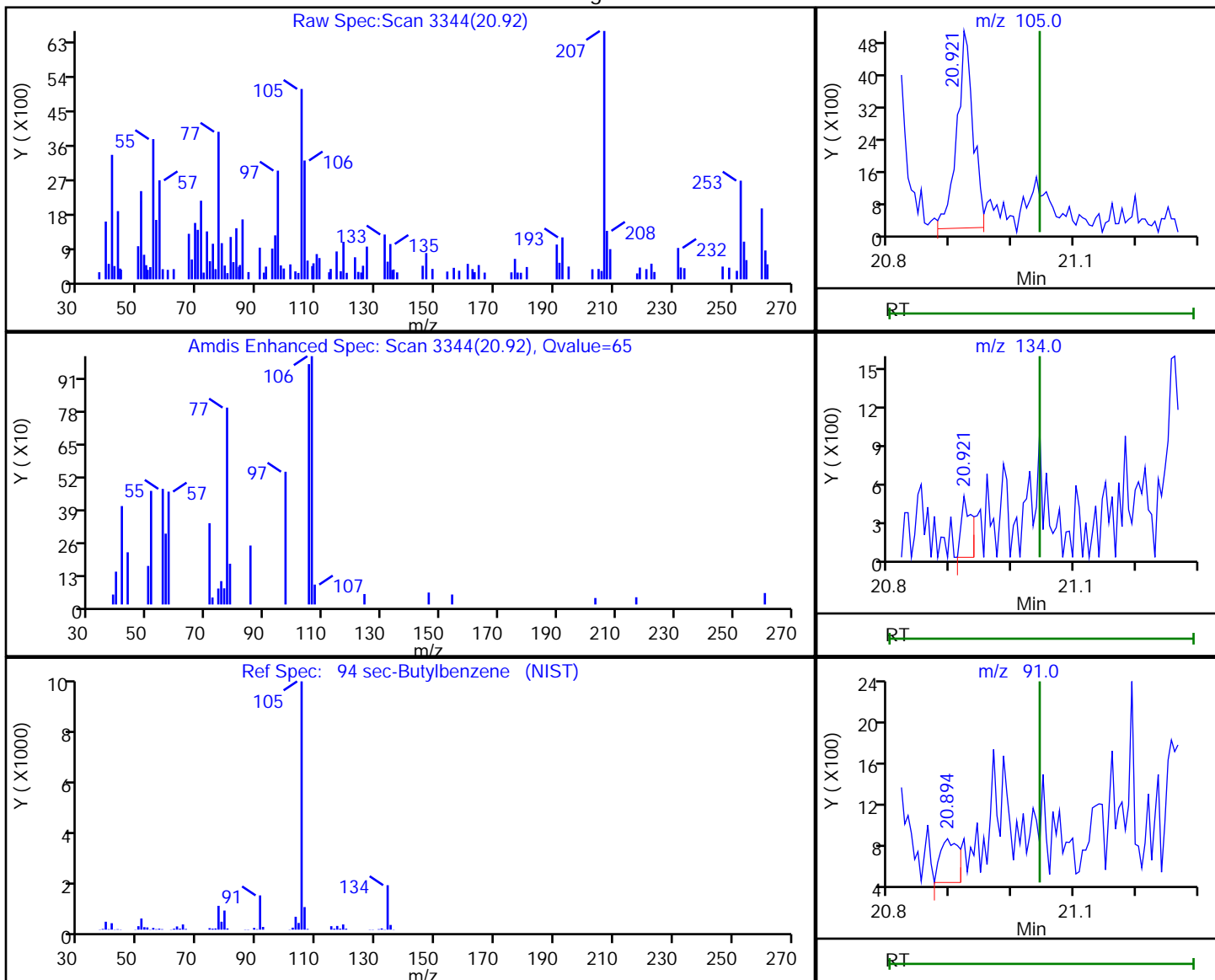
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 8985     | 0.029077 |
| 20.92 | 134.00 | 525      |          |
| 20.89 | 91.00  | 864      |          |

Reviewer: bunmaa, 07-Dec-2018 09:23:35  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

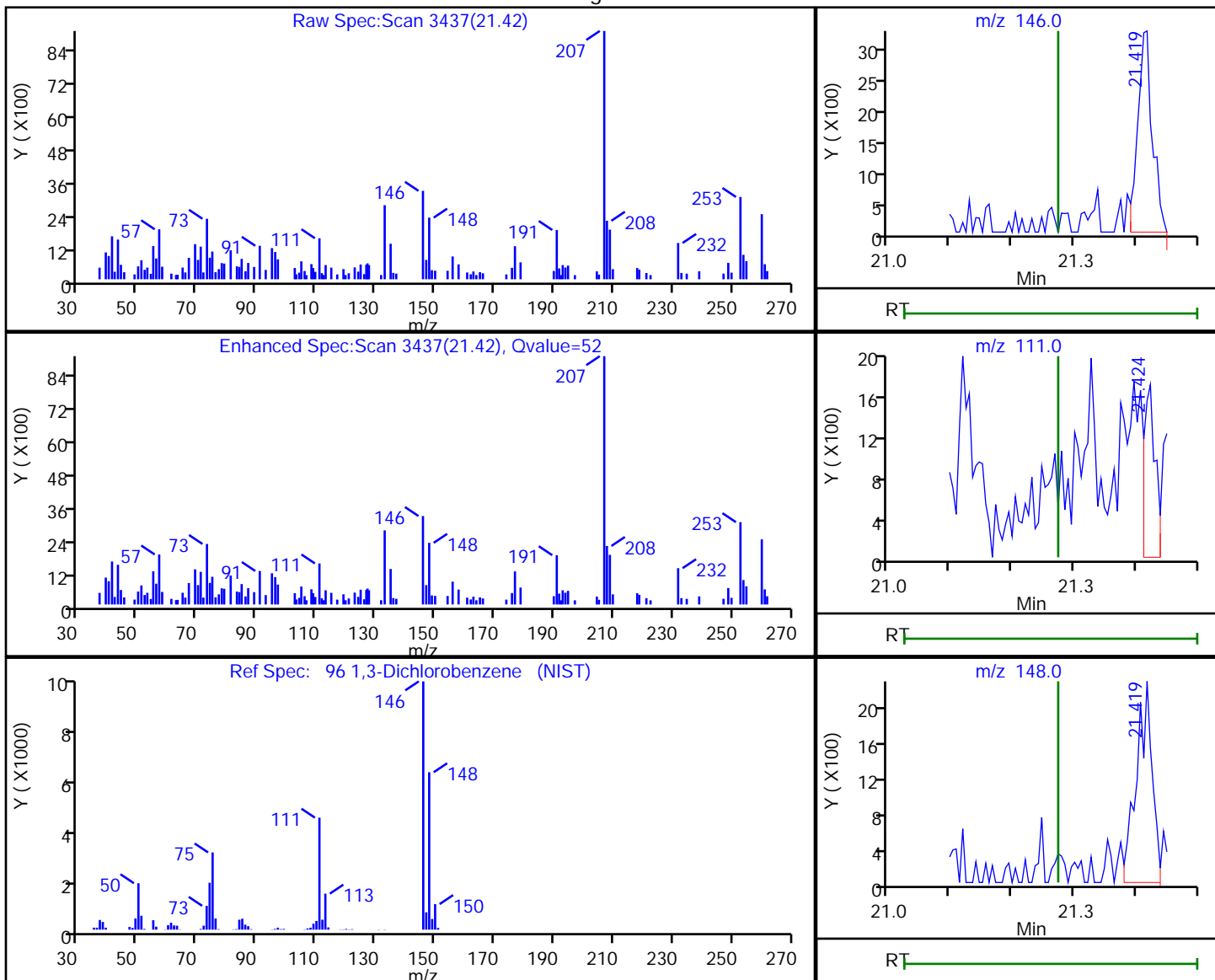


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 5266     | 0.029561 |
| 21.42 | 111.00 | 2083     |          |
| 21.42 | 148.00 | 3988     |          |

Reviewer: guazzonig, 06-Dec-2018 13:38:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

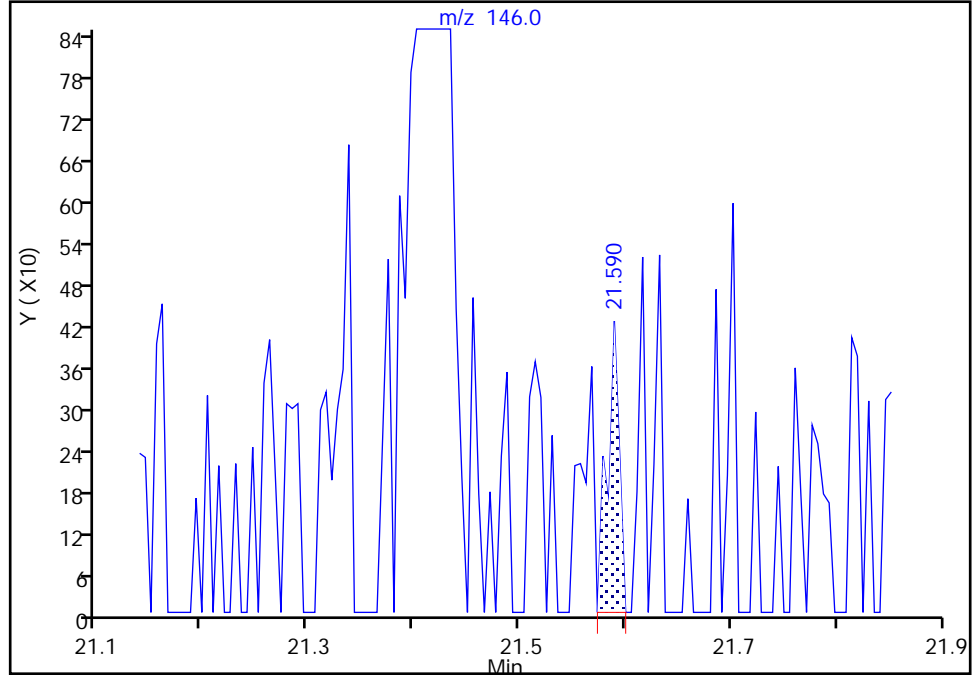
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

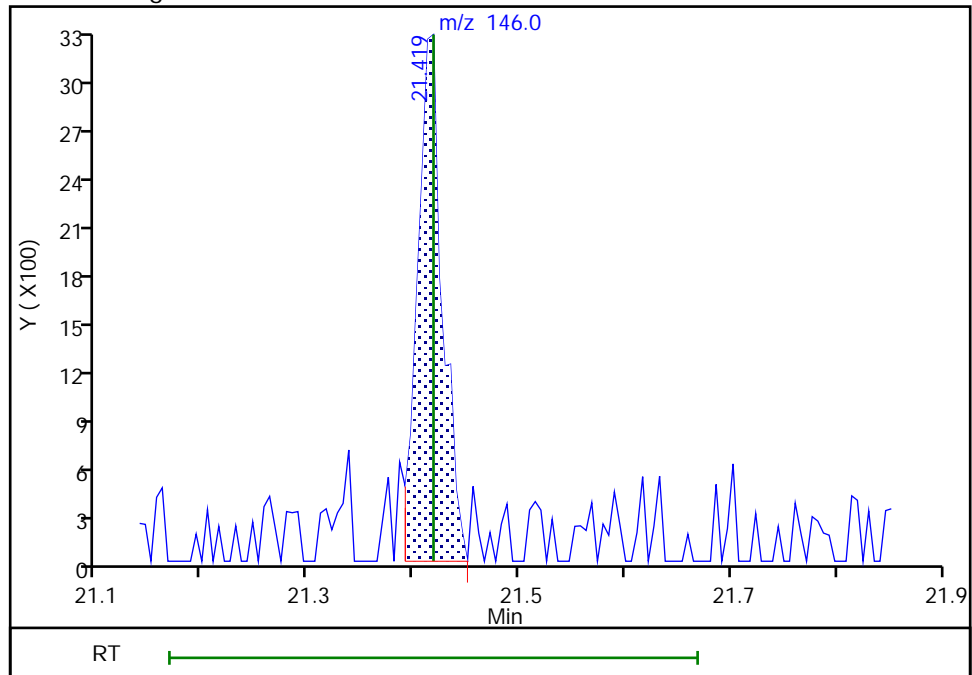
RT: 21.59  
Area: 330  
Amount: 0.001937  
Amount Units: ppb v/v

Processing Integration Results



RT: 21.42  
Area: 5266  
Amount: 0.030913  
Amount Units: ppb v/v

Manual Integration Results

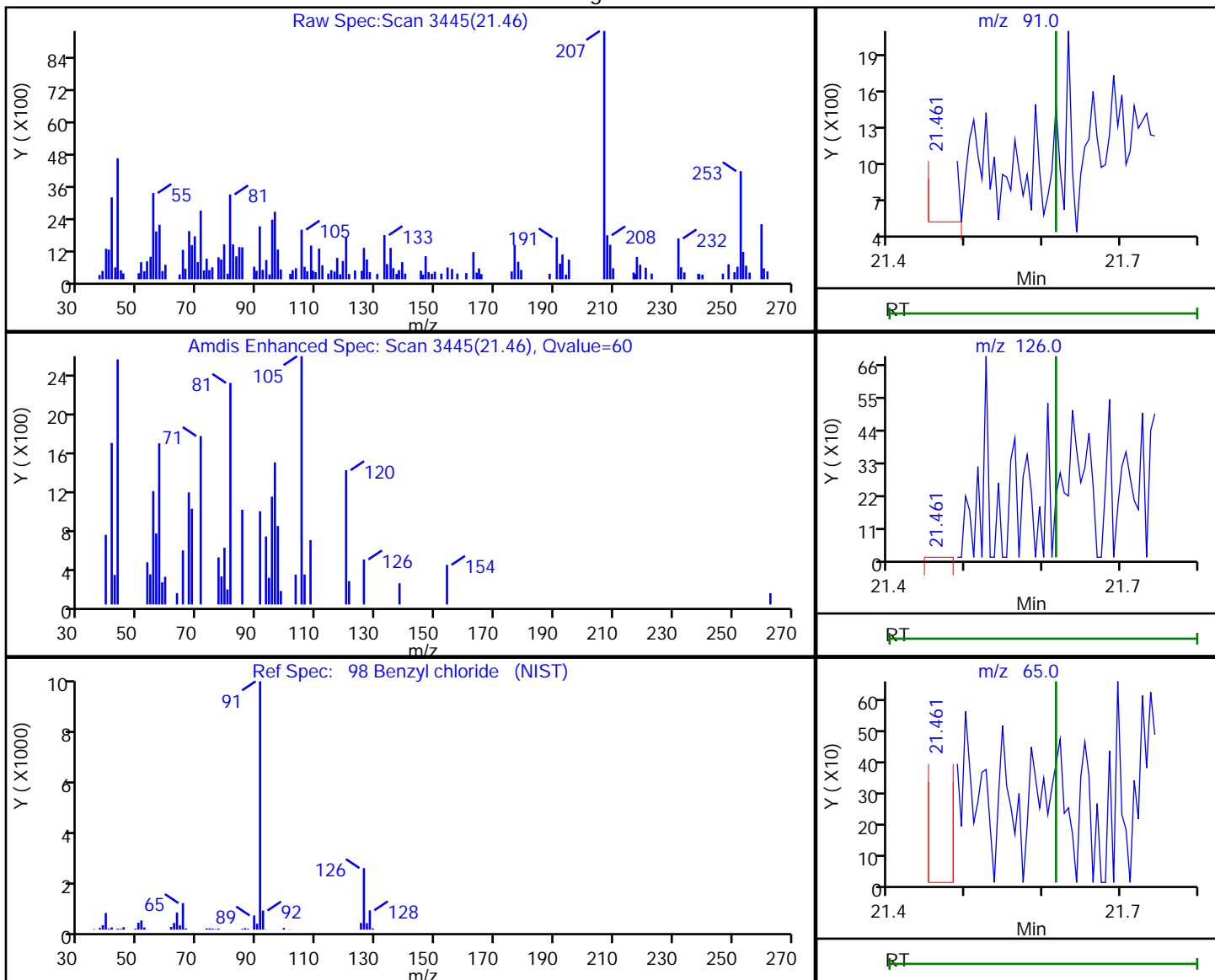


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.46 | 91.00  | 2197     | 0.010448 |
| 21.46 | 126.00 | 1479     |          |
| 21.46 | 65.00  | 1245     |          |

Reviewer: guazzonig, 06-Dec-2018 13:38:21  
 Audit Action: Marked Compound Undetected

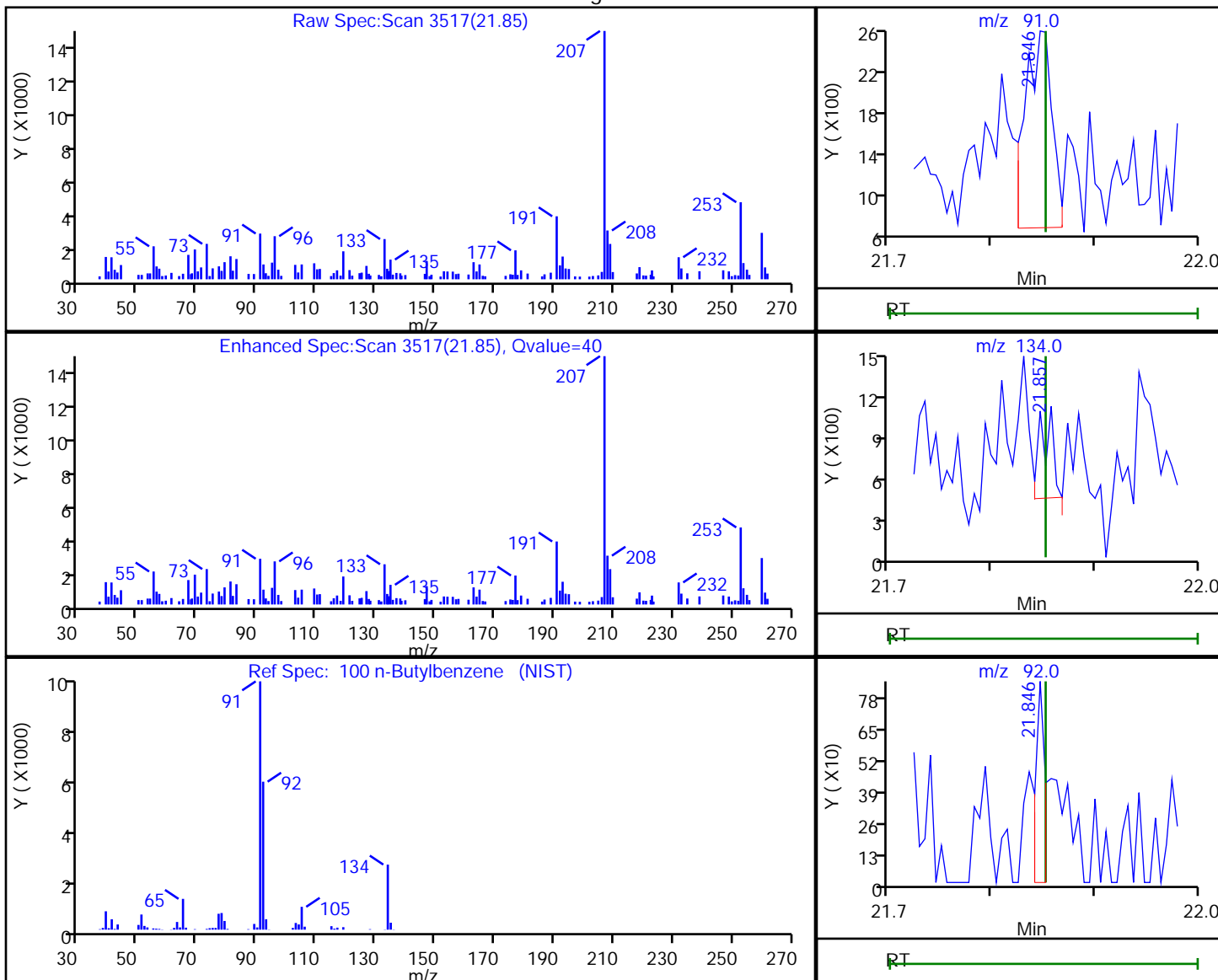
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 3490     | 0.014454 |
| 21.86 | 134.00 | 562      |          |
| 21.85 | 92.00  | 523      |          |

Reviewer: guazzonig, 06-Dec-2018 13:38:22  
 Audit Action: Marked Compound Undetected

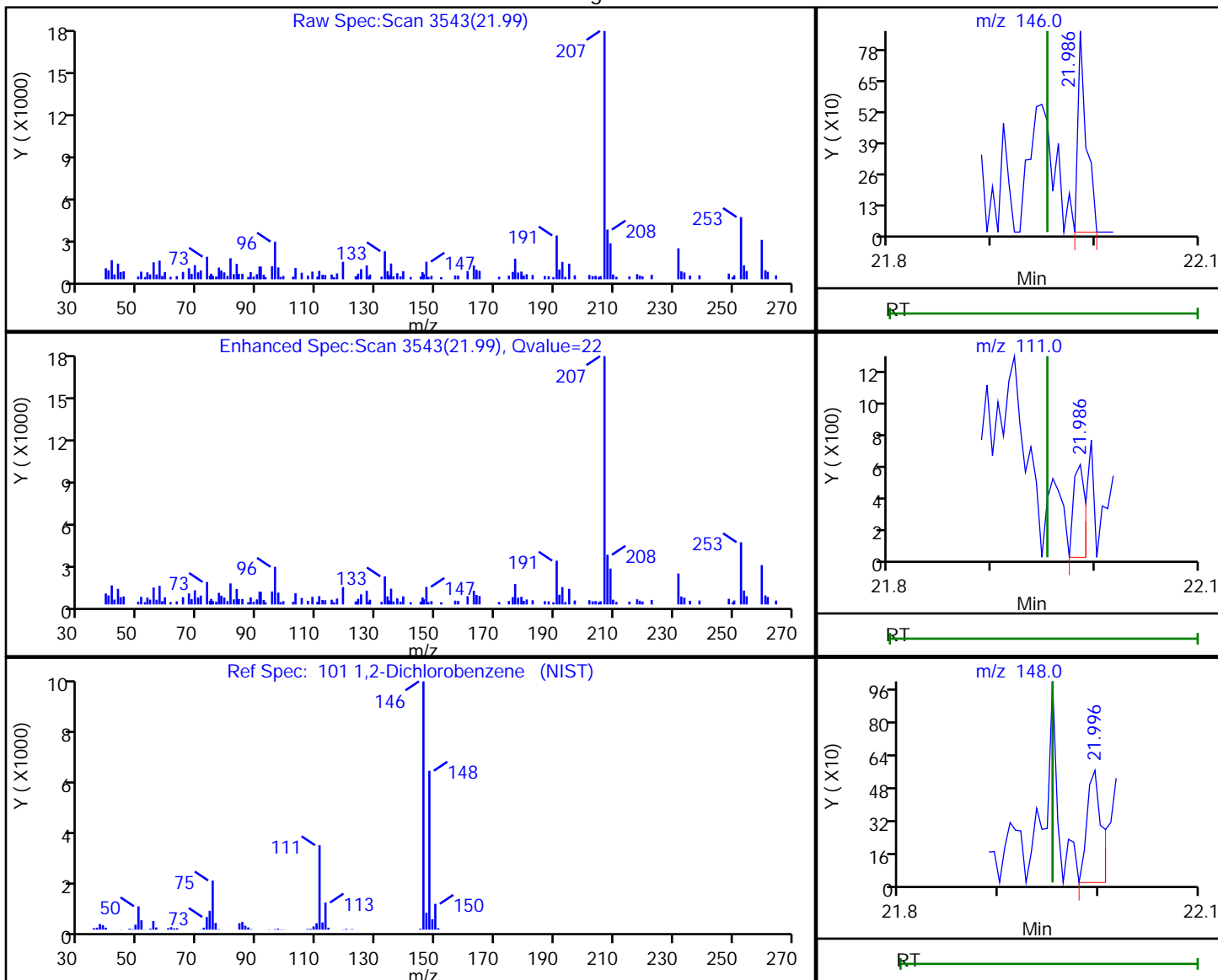
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.99 | 146.00 | 485      | 0.002962 |
| 21.99 | 111.00 | 460      |          |
| 22.00 | 148.00 | 560      |          |

Reviewer: bunmaa, 07-Dec-2018 09:23:54

Audit Action: Marked Compound Undetected

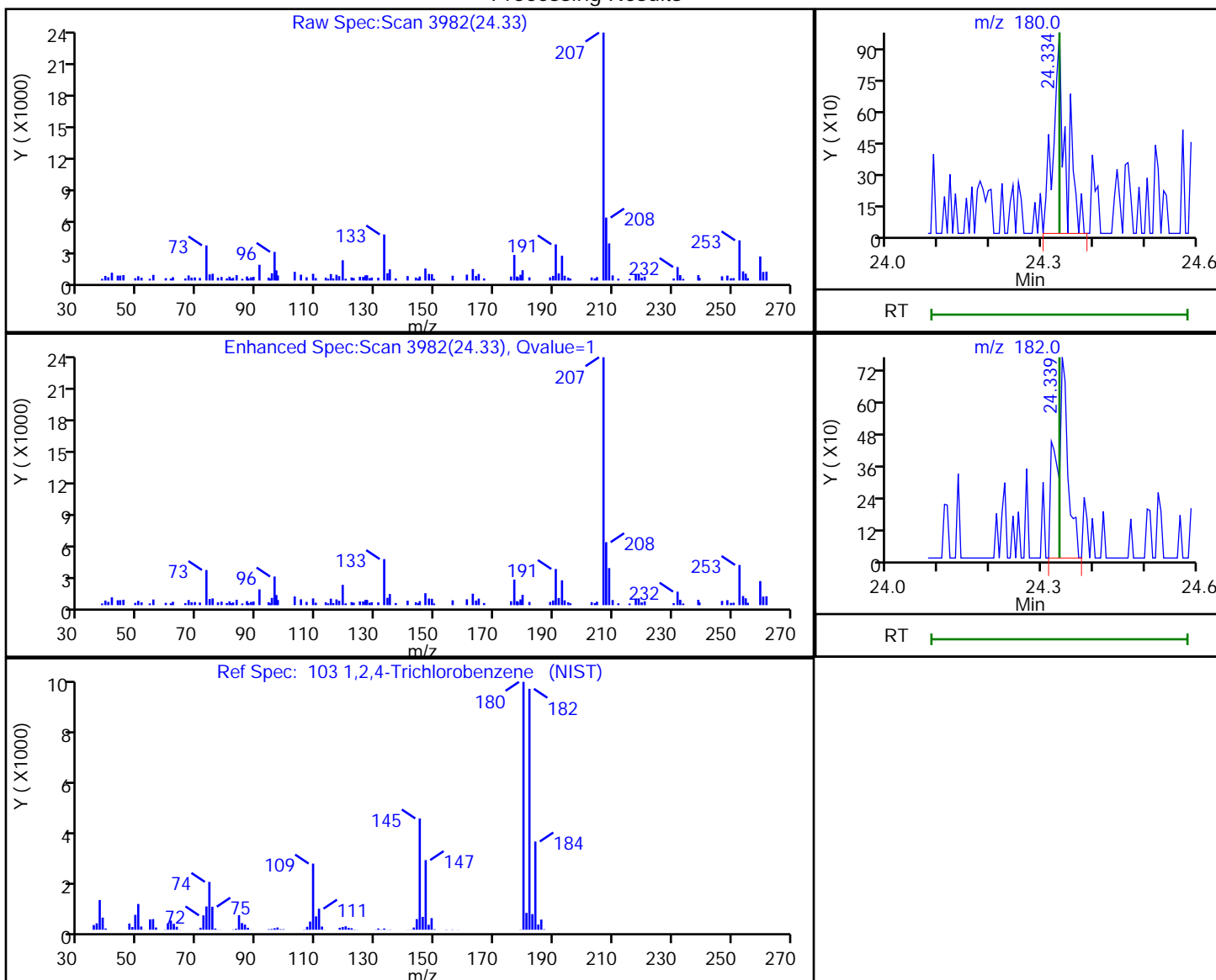
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
 Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 1675     | 0.013612 |
| 24.34 | 182.00 | 1203     |          |

Reviewer: bunmaa, 07-Dec-2018 09:23:58

Audit Action: Marked Compound Undetected

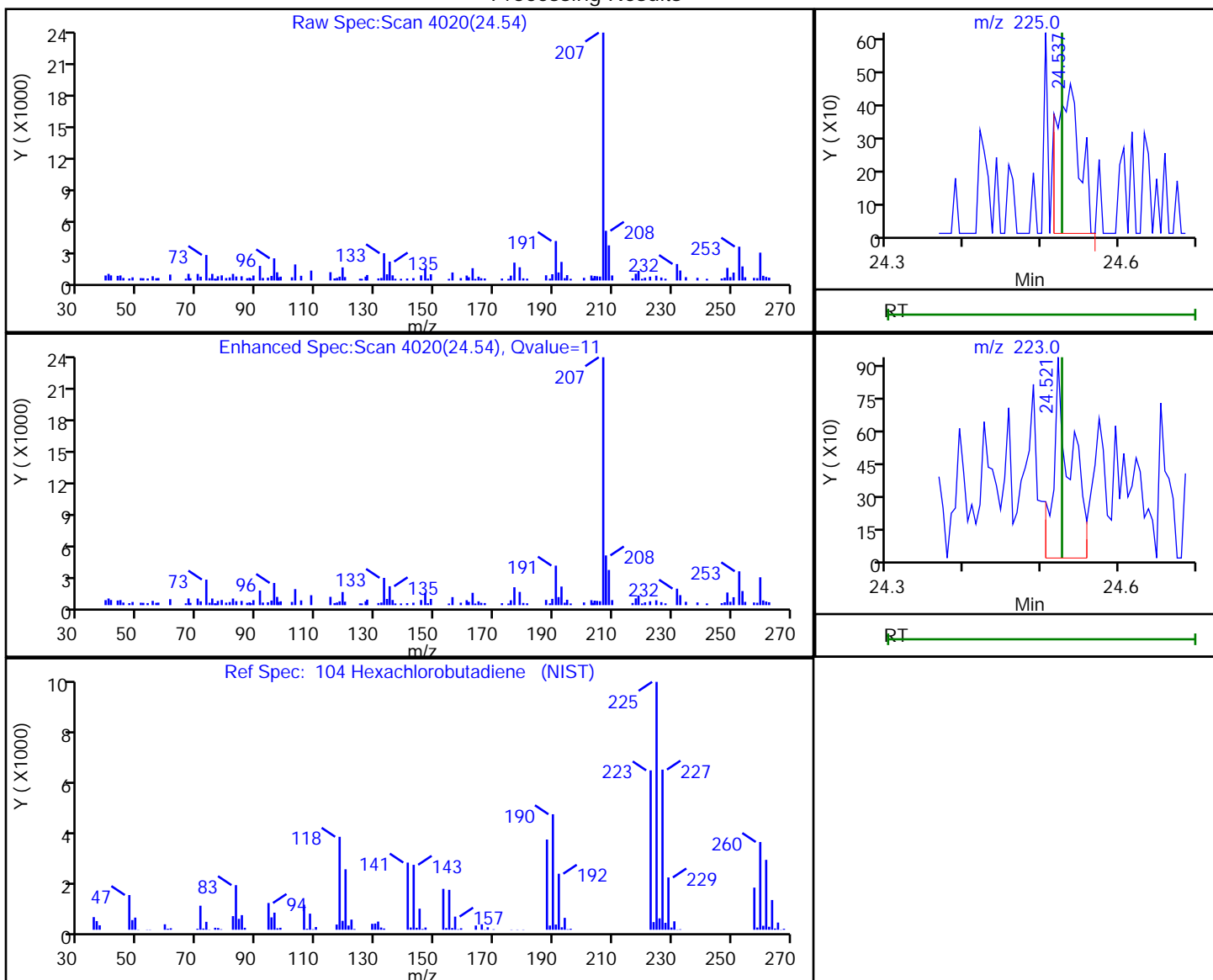
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.54 | 225.00 | 940      | 0.007679 |
| 24.52 | 223.00 | 1461     |          |

Reviewer: bunmaa, 07-Dec-2018 09:24:01

Audit Action: Marked Compound Undetected

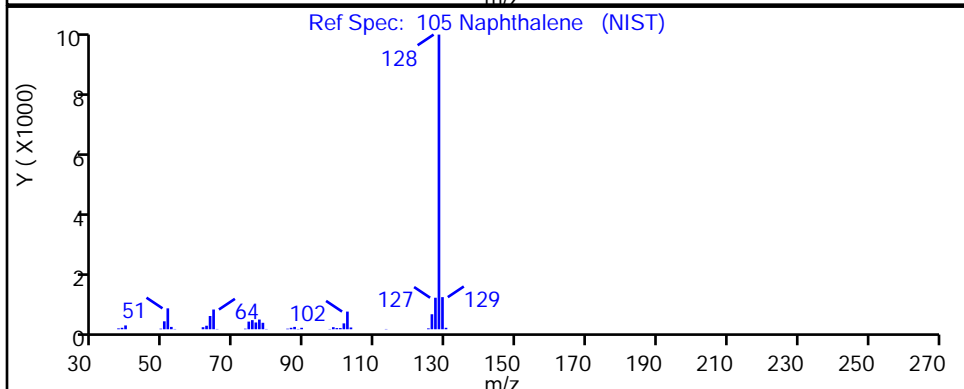
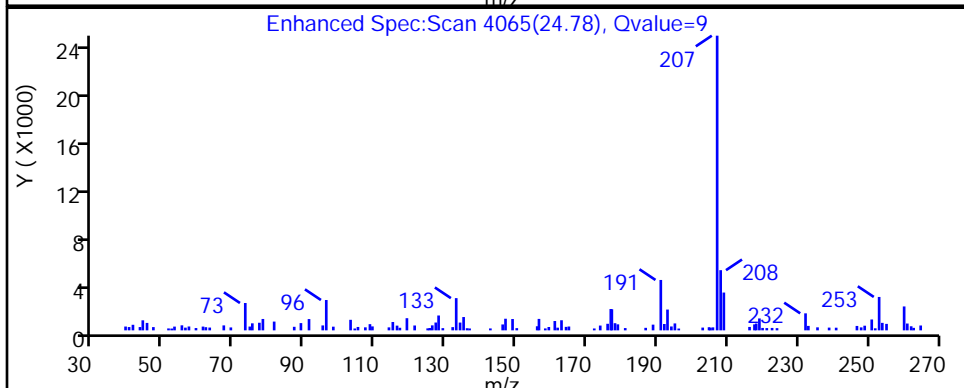
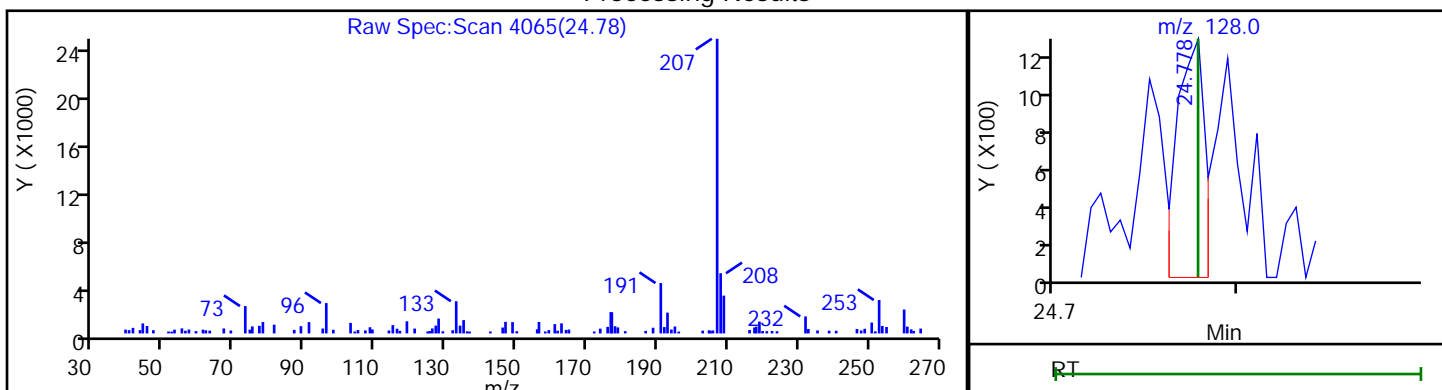
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-022.D  
Injection Date: 06-Dec-2018 07:42:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.78 | 128.00 | 1347     | 0.005646 |

Reviewer: bunmaa, 07-Dec-2018 09:24:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.0    | U | 2.0  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 2.0    | U | 2.0  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.80   | U | 0.80 |  |
| 74-87-3   | Chloromethane                    | 50.49            | 2.0    | U | 2.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.5    | D | 2.0  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.31   | U | 0.31 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.80   | U | 0.80 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.80   | U | 0.80 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 2.0    | U | 2.0  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.80   | U | 0.80 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.80   | U | 0.80 |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.80   | U | 0.80 |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 120    | D | 20   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 20     | U | 20   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 2.0    | U | 2.0  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 2.0    | U | 2.0  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 2.0    | U | 2.0  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 20     | U | 20   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.80   | U | 0.80 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.80   | U | 0.80 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.80   | U | 0.80 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.80   | U | 0.80 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 3.3    | D | 2.0  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.80   | U | 0.80 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 20     | U | 20   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.80   | U | 0.80 |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.80   | U | 0.80 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.14   | U | 0.14 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.80   | U | 0.80 |  |
| 71-43-2   | Benzene                          | 78.11            | 0.80   | U | 0.80 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.80   | U | 0.80 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | <i>n</i> -Heptane                                | 100.21           | 0.80   | U | 0.80 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.14   | U | 0.14 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.80   | U | 0.80 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 20     | U | 20   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.80   | U | 0.80 |
| 10061-01-5  | <i>cis</i> -1,3-Dichloropropene                  | 110.97           | 0.80   | U | 0.80 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 0.80   | U | 0.80 |
| 10061-02-6  | <i>trans</i> -1,3-Dichloropropene                | 110.97           | 0.80   | U | 0.80 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.80   | U | 0.80 |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.80   | U | 0.80 |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.80   | U | 0.80 |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.80   | U | 0.80 |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.80   | U | 0.80 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.3    | D | 0.80 |
| 179601-23-1 | <i>m,p</i> -Xylene                               | 106.17           | 6.2    | D | 2.0  |
| 95-47-6     | <i>o</i> -Xylene                                 | 106.17           | 2.1    | D | 0.80 |
| 100-42-5    | Styrene  | 104.15           | 0.80   | U | 0.80 |
| 75-25-2     | Bromoform  | 252.75           | 0.80   | U | 0.80 |
| 98-82-8     | Cumene   | 120.19           | 0.80   | U | 0.80 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.80   | U | 0.80 |
| 103-65-1    | <i>n</i> -Propylbenzene                          | 120.19           | 0.80   | U | 0.80 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.80   | U | 0.80 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.80   | U | 0.80 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.80   | U | 0.80 |
| 98-06-6     | <i>tert</i> -Butylbenzene                        | 134.22           | 0.80   | U | 0.80 |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.80   | U | 0.80 |
| 135-98-8    | <i>sec</i> -Butylbenzene                         | 134.22           | 0.80   | U | 0.80 |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.80   | U | 0.80 |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.80   | U | 0.80 |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.80   | U | 0.80 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME                 | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|-------------------------------|------------------|--------|---|------|--|
| 100-44-7 | <i>Benzyl chloride</i>        | 126.58           | 0.80   | U | 0.80 |  |
| 104-51-8 | <i>n-Butylbenzene</i>         | 134.22           | 0.80   | U | 0.80 |  |
| 95-50-1  | <i>1,2-Dichlorobenzene</i>    | 147.00           | 0.80   | U | 0.80 |  |
| 120-82-1 | <i>1,2,4-Trichlorobenzene</i> | 181.45           | 2.0    | U | 2.0  |  |
| 87-68-3  | <i>Hexachlorobutadiene</i>    | 260.76           | 0.80   | U | 0.80 |  |
| 91-20-3  | <i>Naphthalene</i>            | 128.17           | 2.0    | U | 2.0  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 9.9    | U | 9.9  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 7.1    | U | 7.1  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 5.6    | U | 5.6  |
| 74-87-3   | Chloromethane                    | 50.49            | 4.1    | U | 4.1  |
| 106-97-8  | n-Butane                         | 58.12            | 6.0    | D | 4.8  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.80   | U | 0.80 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 1.8    | U | 1.8  |
| 74-83-9   | Bromomethane                     | 94.94            | 3.1    | U | 3.1  |
| 75-00-3   | Chloroethane                     | 64.52            | 5.3    | U | 5.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 3.5    | U | 3.5  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 4.5    | U | 4.5  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 6.1    | U | 6.1  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.56   | U | 0.56 |
| 67-64-1   | Acetone                          | 58.08            | 290    | D | 48   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 49     | U | 49   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 6.2    | U | 6.2  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 6.3    | U | 6.3  |
| 75-09-2   | Methylene Chloride               | 84.93            | 6.9    | U | 6.9  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 61     | U | 61   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 2.9    | U | 2.9  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 3.2    | U | 3.2  |
| 110-54-3  | n-Hexane                         | 86.17            | 2.8    | U | 2.8  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 3.2    | U | 3.2  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 9.7    | D | 5.9  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.80   | U | 0.80 |
| 67-66-3   | Chloroform                       | 119.38           | 3.9    | U | 3.9  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 59     | U | 59   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 4.4    | U | 4.4  |
| 110-82-7  | Cyclohexane                      | 84.16            | 2.8    | U | 2.8  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.88   | U | 0.88 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 3.7    | U | 3.7  |
| 71-43-2   | Benzene                          | 78.11            | 2.6    | U | 2.6  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 3.2    | U | 3.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-------------|--|------------------|--------|---|------|--|
| 142-82-5    | <i>n</i> -Heptane                                | 100.21           | 3.3    | U | 3.3  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.75   | U | 0.75 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 8.2    | U | 8.2  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 3.7    | U | 3.7  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 72     | U | 72   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 5.4    | U | 5.4  |  |
| 10061-01-5  | <i>cis</i> -1,3-Dichloropropene                  | 110.97           | 3.6    | U | 3.6  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 8.2    | U | 8.2  |  |
| 108-88-3    | Toluene  | 92.14            | 3.0    | U | 3.0  |  |
| 10061-02-6  | <i>trans</i> -1,3-Dichloropropene                | 110.97           | 3.6    | U | 3.6  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 4.4    | U | 4.4  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 5.4    | U | 5.4  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 8.2    | U | 8.2  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 6.8    | U | 6.8  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 6.1    | U | 6.1  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 3.7    | U | 3.7  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 5.4    | D | 3.5  |  |
| 179601-23-1 | <i>m,p</i> -Xylene                               | 106.17           | 27     | D | 8.7  |  |
| 95-47-6     | <i>o</i> -Xylene                                 | 106.17           | 9.0    | D | 3.5  |  |
| 100-42-5    | Styrene  | 104.15           | 3.4    | U | 3.4  |  |
| 75-25-2     | Bromoform  | 252.75           | 8.3    | U | 8.3  |  |
| 98-82-8     | Cumene   | 120.19           | 3.9    | U | 3.9  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 5.5    | U | 5.5  |  |
| 103-65-1    | <i>n</i> -Propylbenzene                          | 120.19           | 3.9    | U | 3.9  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 3.9    | U | 3.9  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 3.9    | U | 3.9  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 4.1    | U | 4.1  |  |
| 98-06-6     | <i>tert</i> -Butylbenzene                        | 134.22           | 4.4    | U | 4.4  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 3.9    | U | 3.9  |  |
| 135-98-8    | <i>sec</i> -Butylbenzene                         | 134.22           | 4.4    | U | 4.4  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 4.4    | U | 4.4  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 4.8    | U | 4.8  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 4.8    | U | 4.8  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 DL Lab Sample ID: 200-46353-6 DL  
 Matrix: Air Lab File ID: 200-33558-011.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 50 (mL) Date Analyzed: 12/06/2018 22:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME                 | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|-------------------------------|------------------|--------|---|-----|
| 100-44-7 | <i>Benzyl chloride</i>        | 126.58           | 4.1    | U | 4.1 |
| 104-51-8 | <i>n-Butylbenzene</i>         | 134.22           | 4.4    | U | 4.4 |
| 95-50-1  | <i>1,2-Dichlorobenzene</i>    | 147.00           | 4.8    | U | 4.8 |
| 120-82-1 | <i>1,2,4-Trichlorobenzene</i> | 181.45           | 15     | U | 15  |
| 87-68-3  | <i>Hexachlorobutadiene</i>    | 260.76           | 8.5    | U | 8.5 |
| 91-20-3  | <i>Naphthalene</i>            | 128.17           | 10     | U | 10  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Lims ID: 200-46353-A-6  
 Client ID: IA-5\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 22:33:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Sample Info: 200-0033558-011  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 16:35:54 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: puangmaleek

Date:

07-Dec-2018 16:35:54

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.149         | -0.005         | 99  | 30259    | 0.1453            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.179         | -0.005         | 96  | 10859    | 0.1225            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.347         |                |     |          | ND                | U     |
| 5 Chloromethane               | 50  | 3.460     | 3.460         | 0.001          | 96  | 7591     | 0.1873            |       |
| 6 Butane                      | 43  | 3.604     | 3.600         | 0.000          | 96  | 34572    | 0.6337            |       |
| 7 Vinyl chloride              | 62  |           | 3.641         |                |     |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.695         |                |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.685         |                |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.760     | 4.759         | 0.001          | 94  | 9622     | 0.0585            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.605         |                |     |          | ND                |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.846     | 5.856         | -0.010         | 99  | 1316455  | 30.3              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006         | 99  | 13183    | 0.1004            |       |
| 24 Isopropyl alcohol          | 45  | 6.129     | 6.084         | 0.037          | 99  | 18674    | 0.3888            |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.306         |                |     |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.552     | 6.546         | -0.005         | 81  | 5478     | 0.1189            |       |
| 28 2-Methyl-2-propanol        | 59  |           | 6.766         |                |     |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.937         |                |     |          | ND                | U     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.947         |                |     |          | ND                | U     |
| 33 Hexane                     | 57  | 7.285     | 7.290         | -0.005         | 89  | 5493     | 0.1114            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.723         |                |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.729         |                |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.799     | 8.820         | 0.011          | 100 | 12781    | 0.8194            |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.157         | -0.005         | 74  | 558309   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.205         |                |     |          | ND                | U     |
| 42 Chloroform                 | 83  |           | 9.269         |                |     |          | ND                |       |
| 43 Cyclohexane                | 84  | 9.521     | 9.526         | -0.010         | 70  | 4890     | 0.0887            |       |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |     |          | ND                |       |
| 45 Carbon tetrachloride       | 117 | 9.783     | 9.767         | 0.000          | 41  | 2444     | 0.0171            |       |
| 46 Isooctane                  | 57  | 10.195    | 10.195        | -0.005         | 72  | 6851     | 0.0376            | M     |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.216    | 10.211        | 0.000         | 96 | 12021    | 0.0940            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  |           | 10.569        |               |    |          | ND                | Ua    |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2402407  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.019        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.201        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  | 12.324    | 12.275        | 0.043         | 86 | 9997     | 0.4251            |       |
| 58 Dichlorobromomethane        | 83  |           | 12.554        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.474        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.811    | 13.795        | 0.021         | 93 | 12172    | 0.1463            |       |
| 65 Toluene                     | 92  | 14.052    | 14.063        | -0.011        | 94 | 19355    | 0.1978            |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.656        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.026        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143        | 0.005         | 59 | 3543     | 0.0302            | M     |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.042        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.952    | 16.957        | -0.005        | 85 | 2415939  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.187    | 17.176        | 0.006         | 98 | 69092    | 0.3135            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.438        | 0.000         | 0  | 138044   | 1.55              |       |
| 79 o-Xylene                    | 106 | 18.278    | 18.294        | -0.005        | 97 | 44163    | 0.5202            |       |
| 80 Styrene                     | 104 |           | 18.342        |               |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.043        |               |    |          | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.840        |               |    |          | ND                |       |
| 89 2-Chlorotoluene             | 91  |           | 20.049        |               |    |          | ND                |       |
| 88 4-Ethyltoluene              | 105 | 20.065    | 20.065        | 0.011         | 41 | 2025     | 0.008047          | 7a    |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.172        | 0.000         | 51 | 2068     | 0.009605          |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.798        | 0.000         | 59 | 6264     | 0.0295            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.263        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.269        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.413        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.846        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.948        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.527        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.773        |               |    |          | ND                | U     |

### QC Flag Legend

Processing Flags

7 - Failed Limit of Detection



Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Worklist Smp#: 11

Client ID: IA-5\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

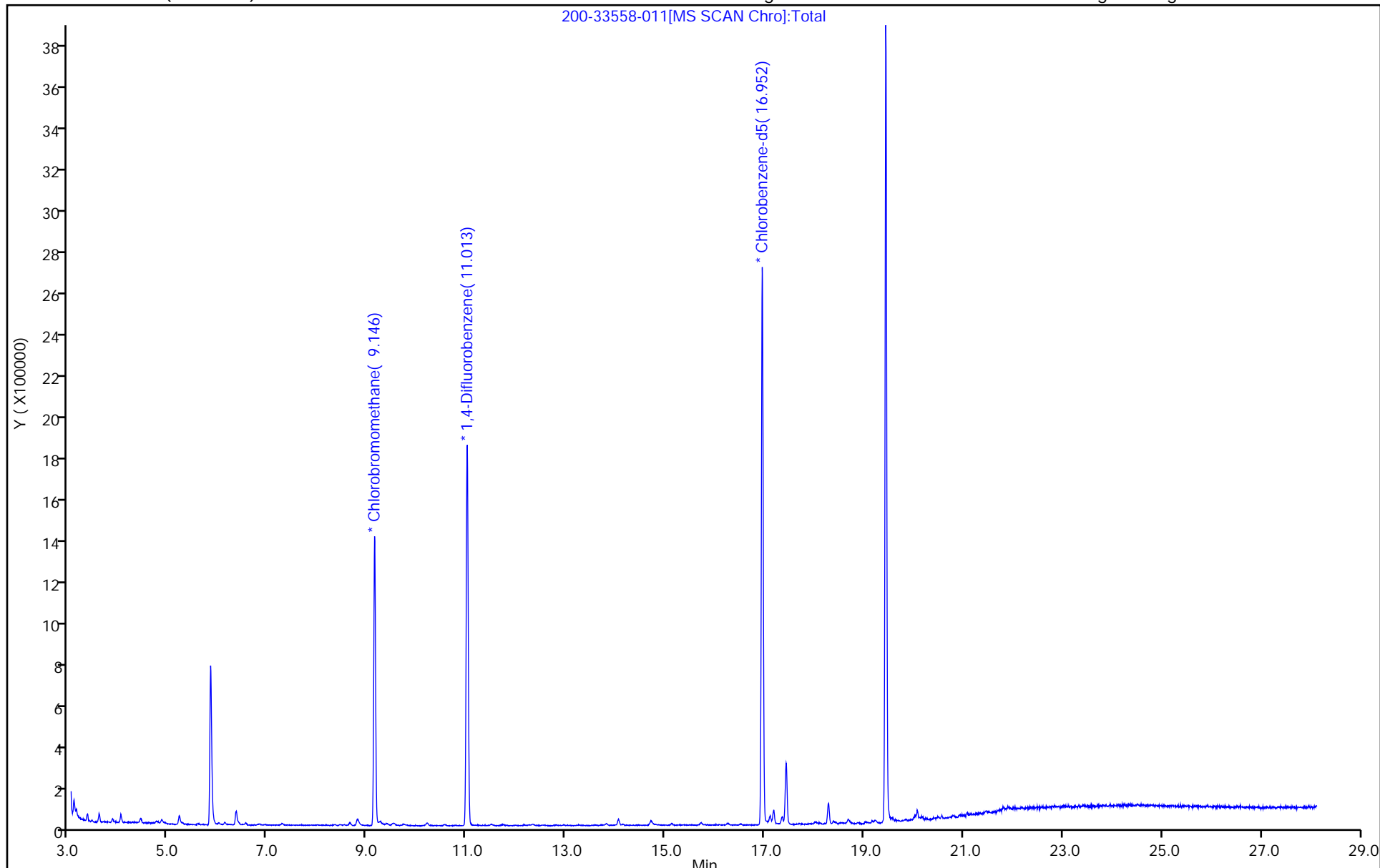
ALS Bottle#: 11

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11 Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

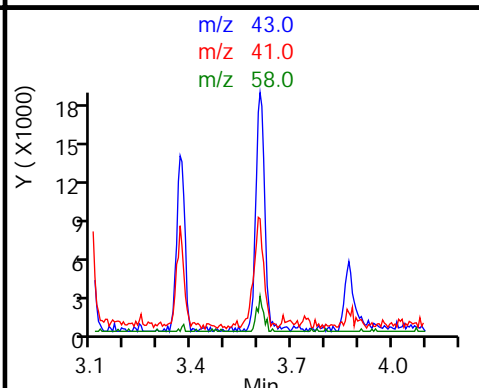
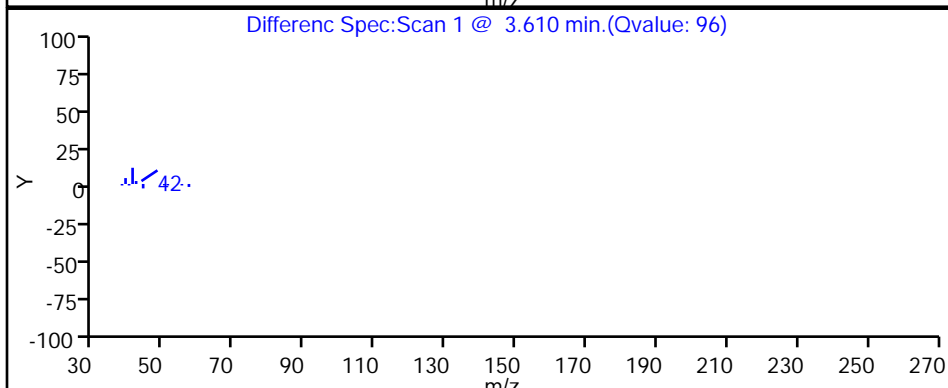
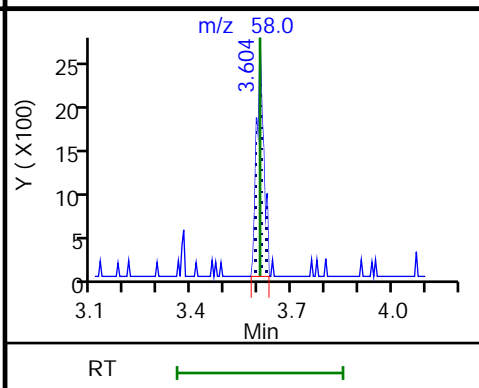
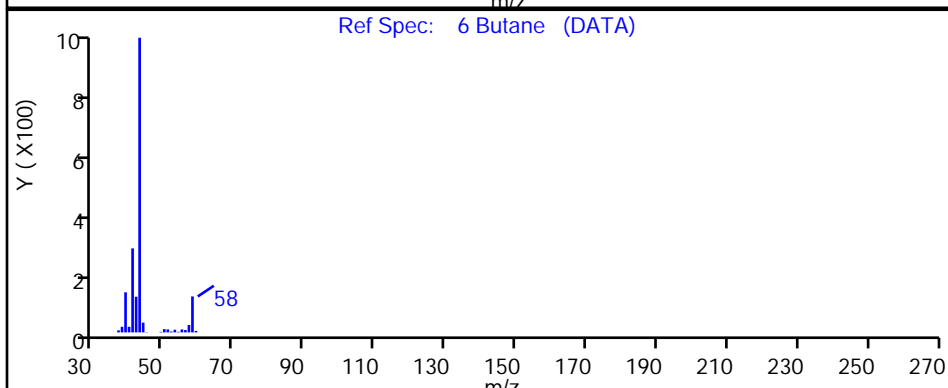
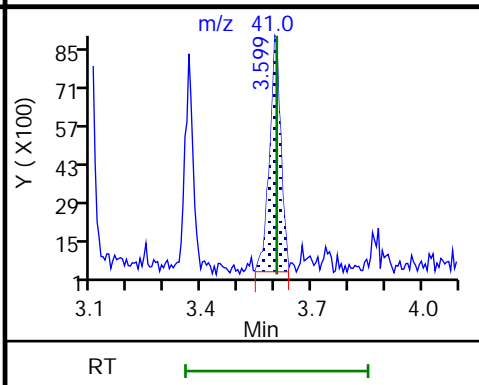
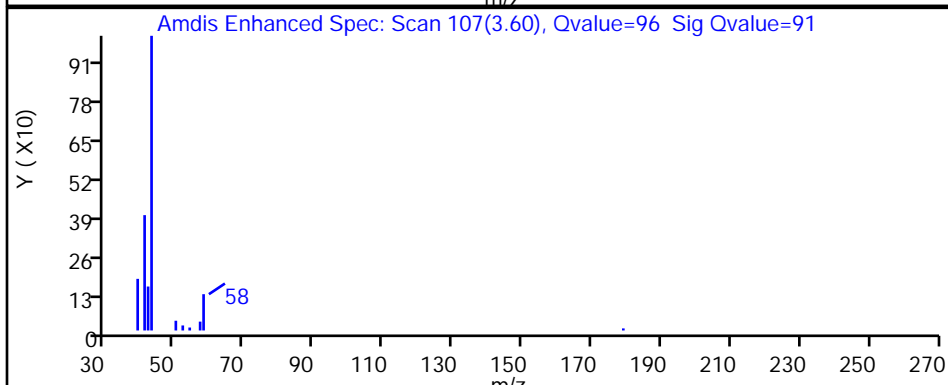
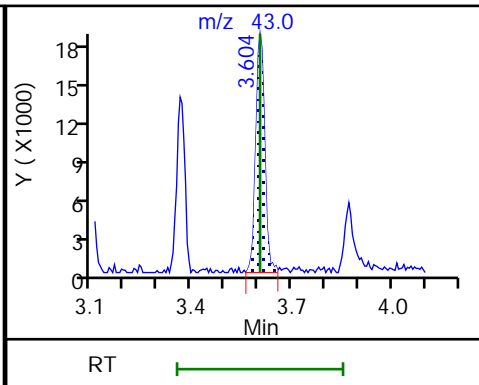
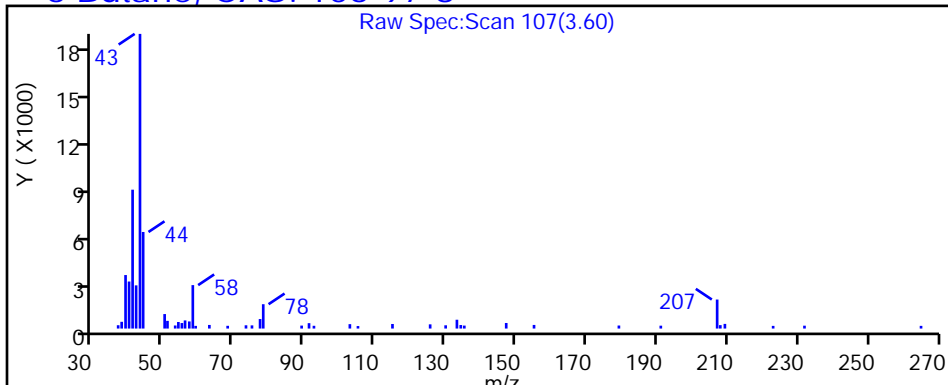
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

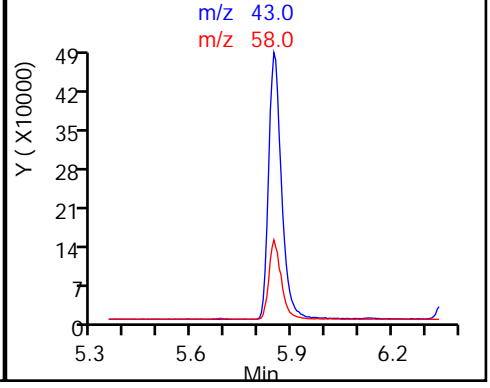
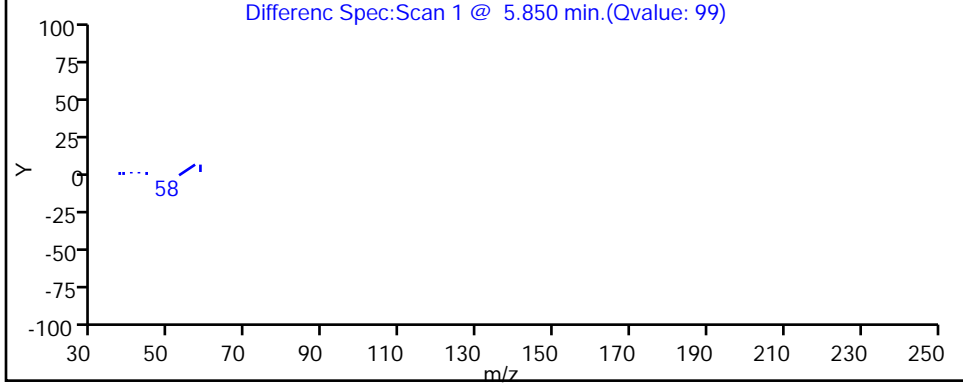
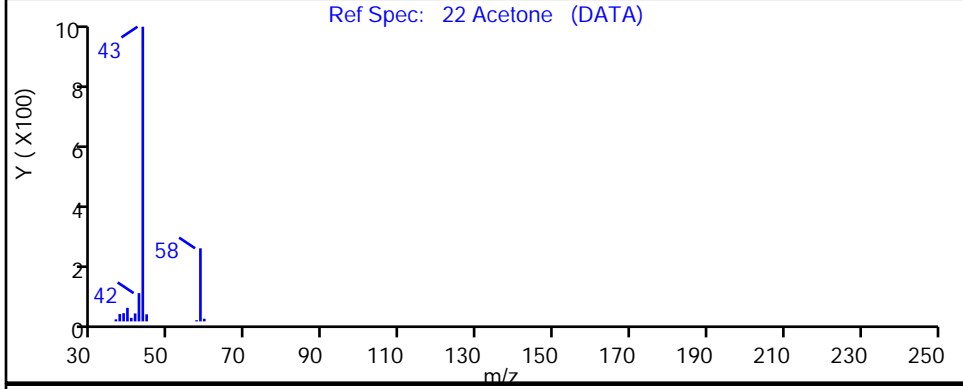
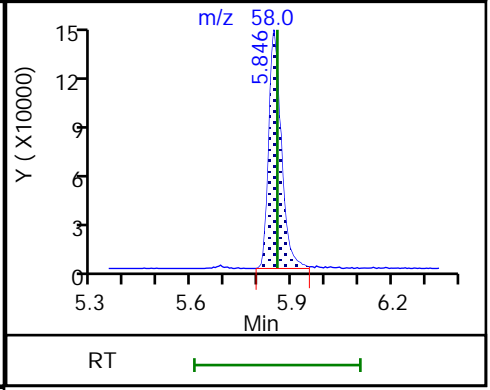
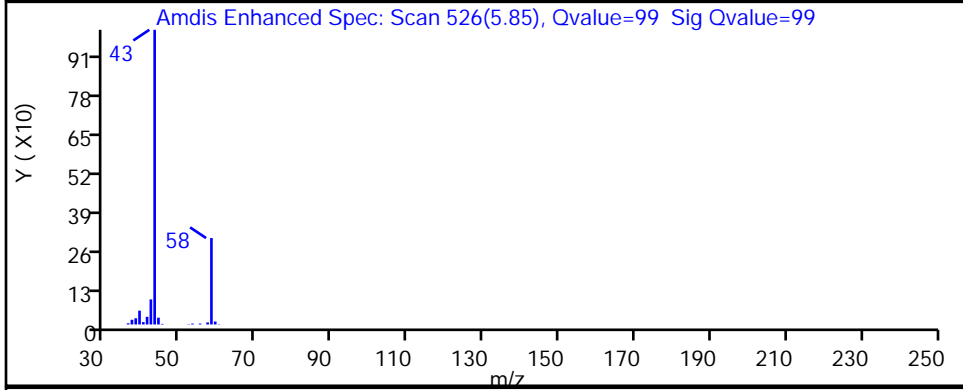
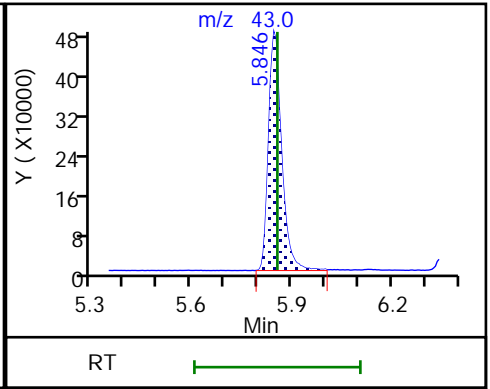
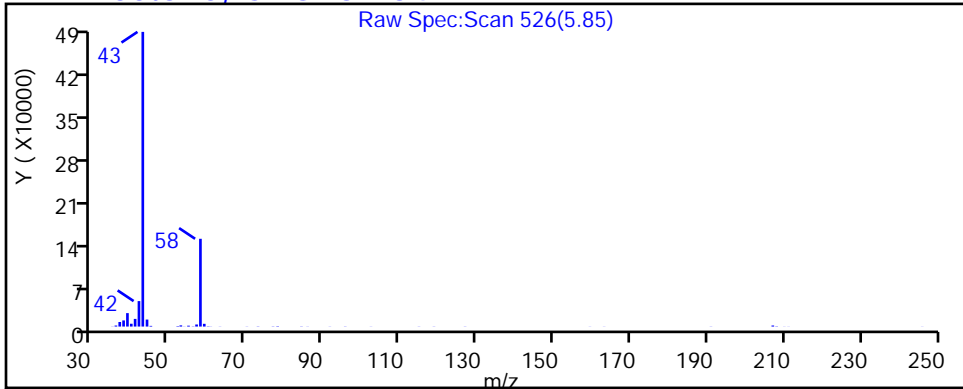
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11 Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

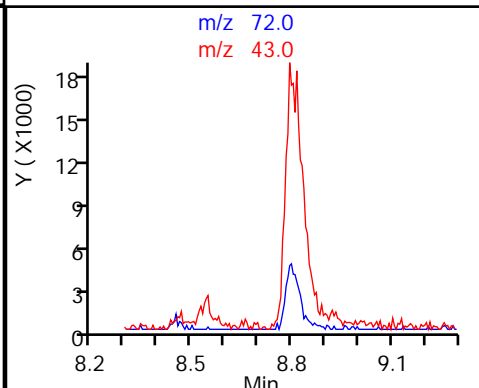
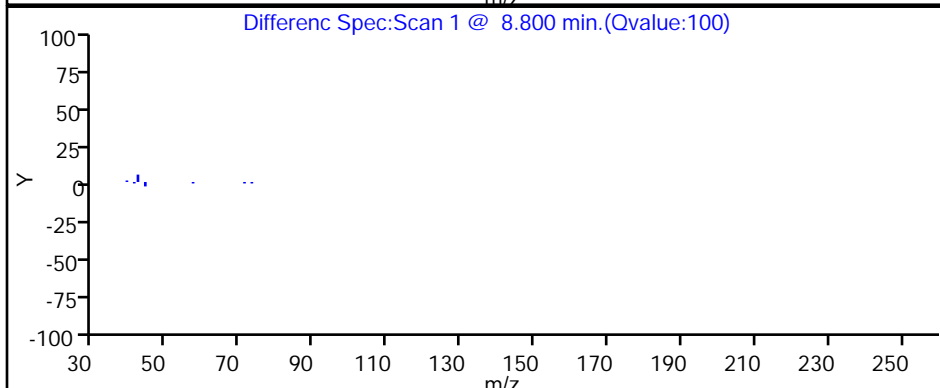
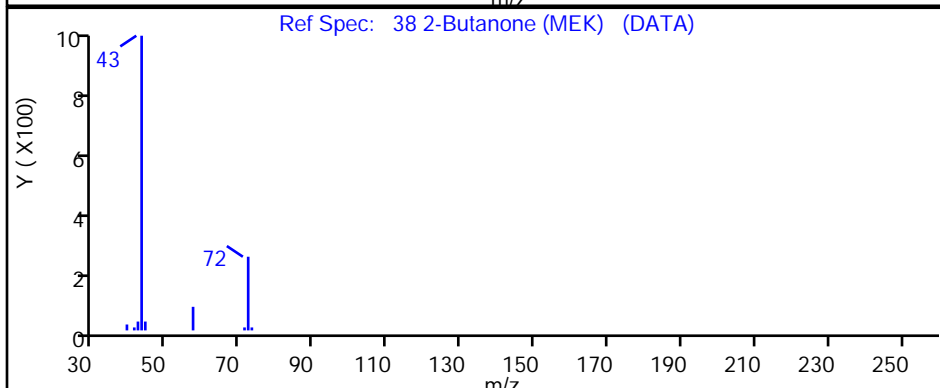
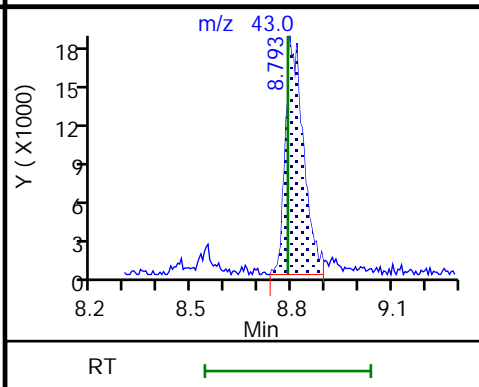
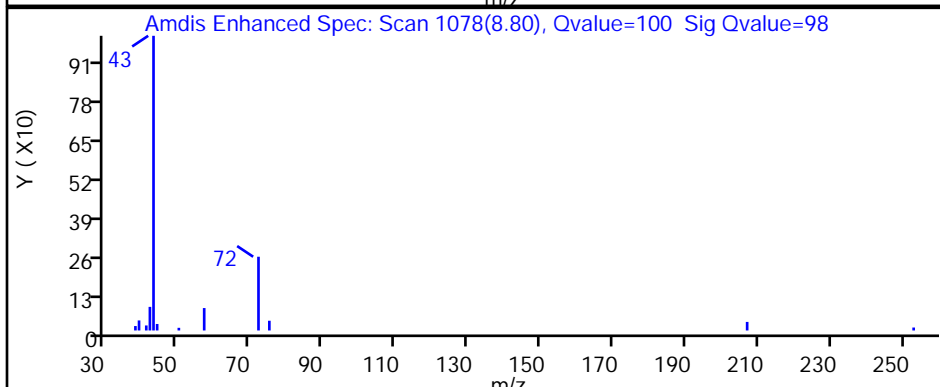
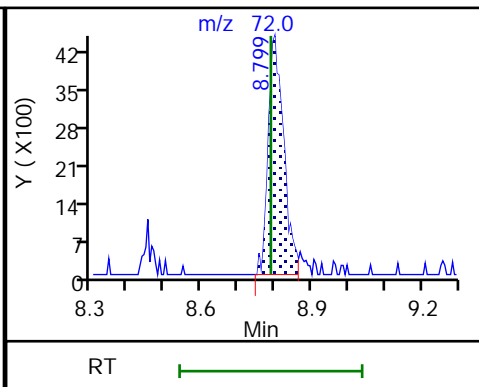
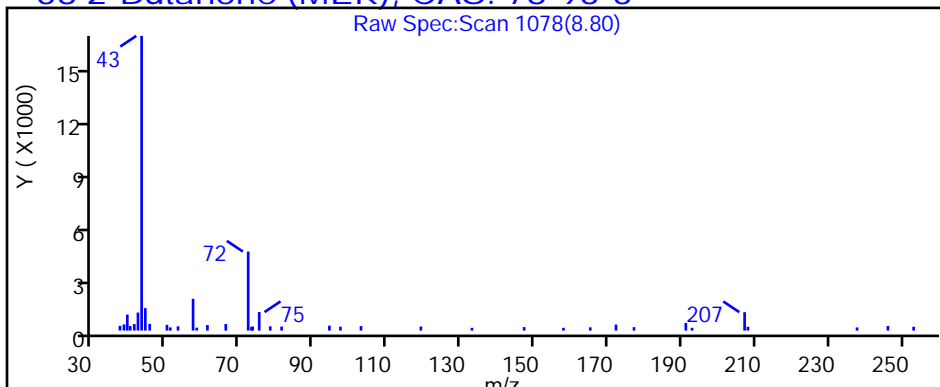
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

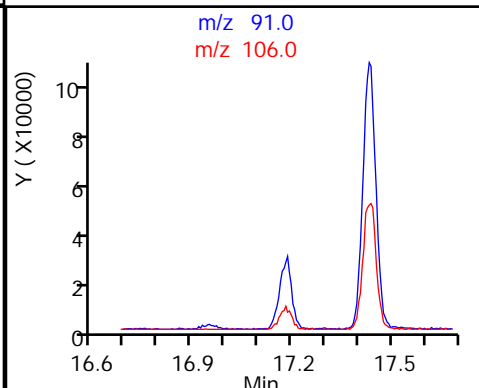
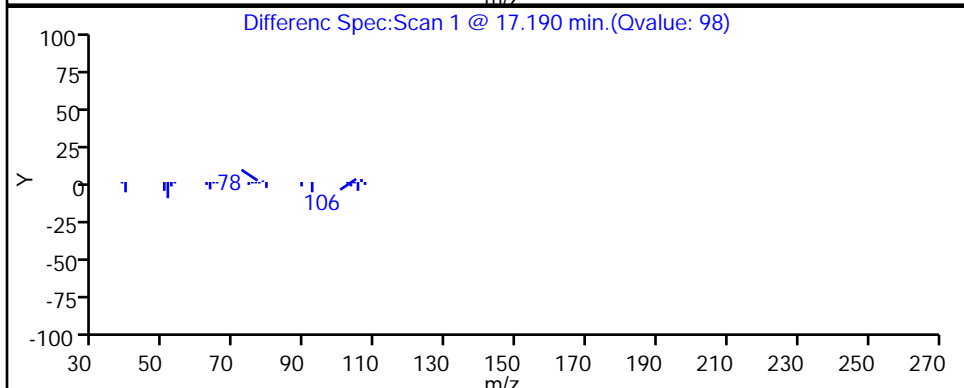
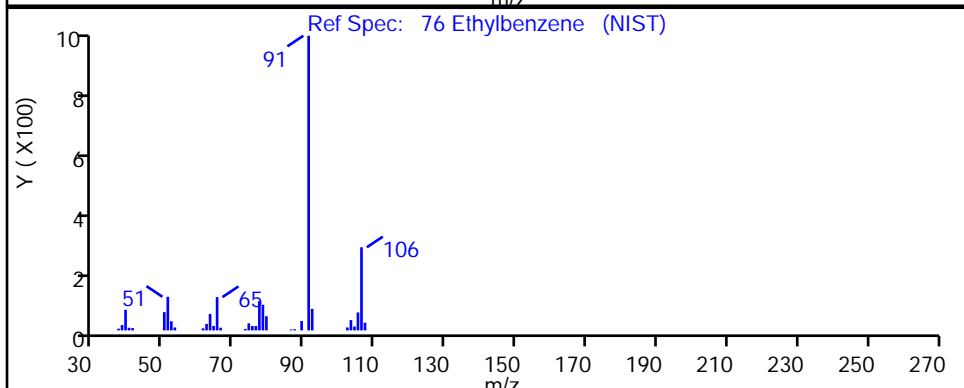
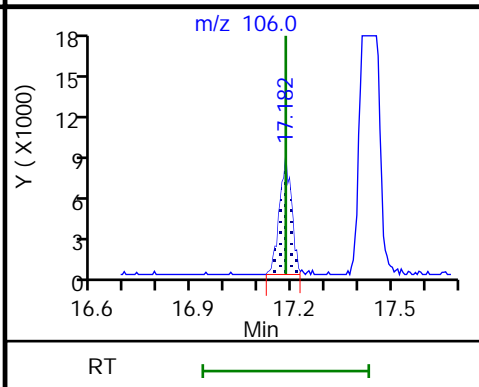
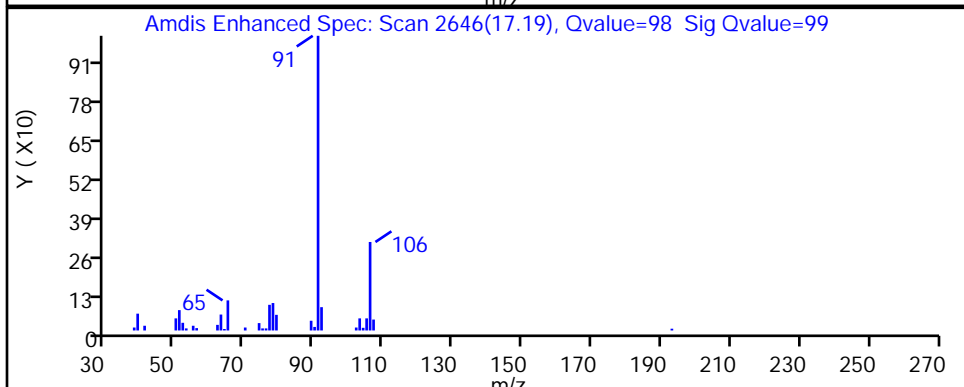
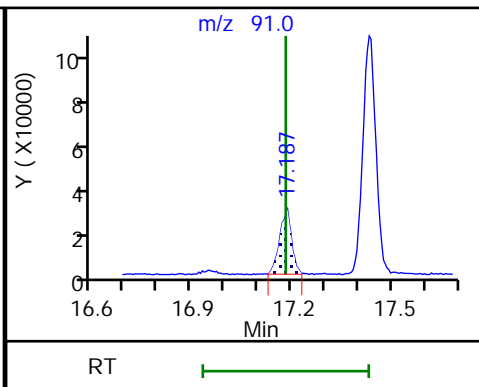
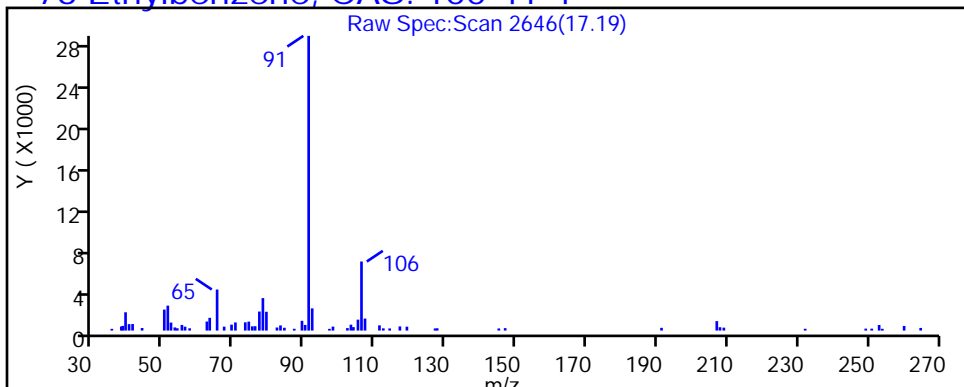
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

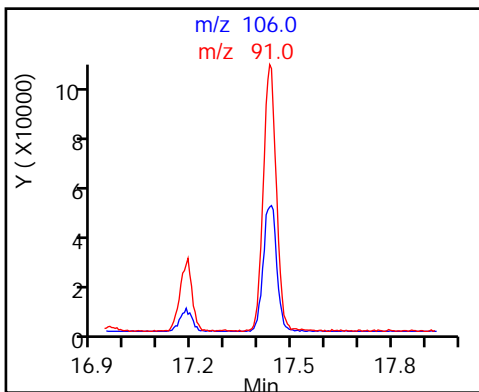
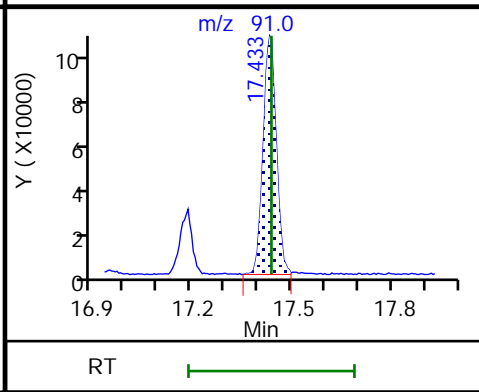
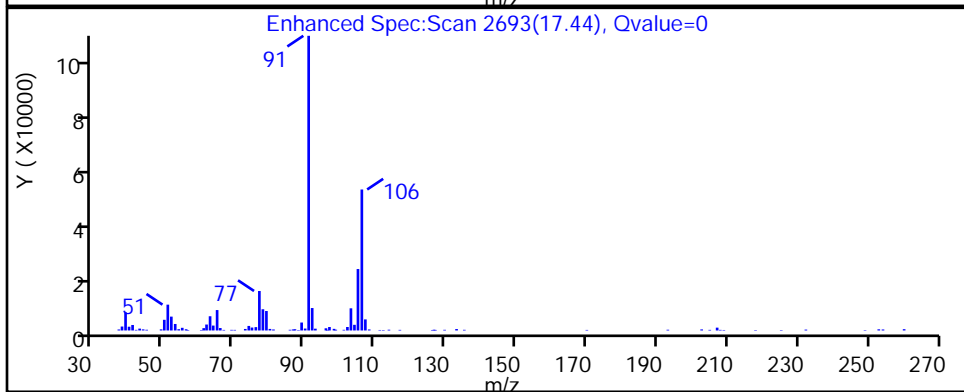
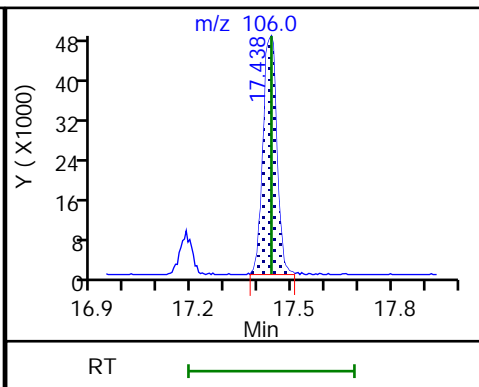
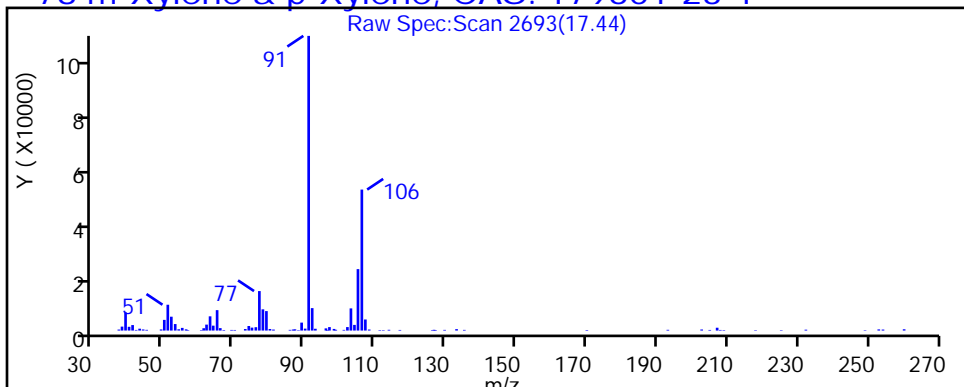
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D

Injection Date: 06-Dec-2018 22:33:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-6

Lab Sample ID: 200-46353-6

Client ID: IA-5\_20181120

Operator ID: ert

ALS Bottle#: 11 Worklist Smp#: 11

Purge Vol: 200.000 mL

Dil. Factor: 4.0000

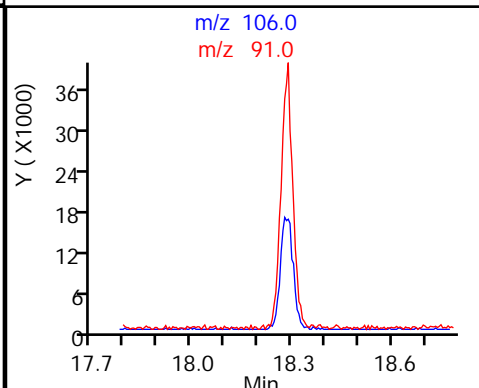
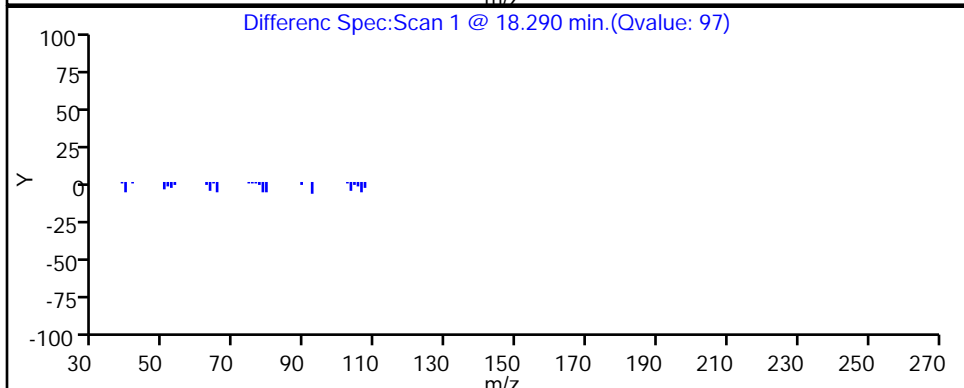
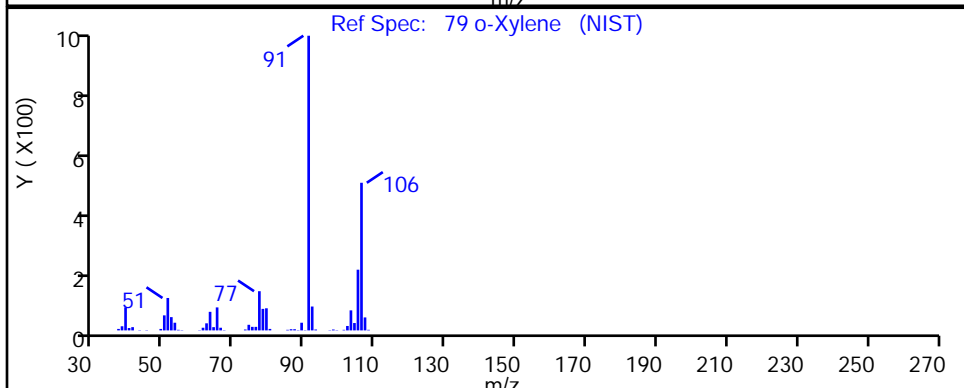
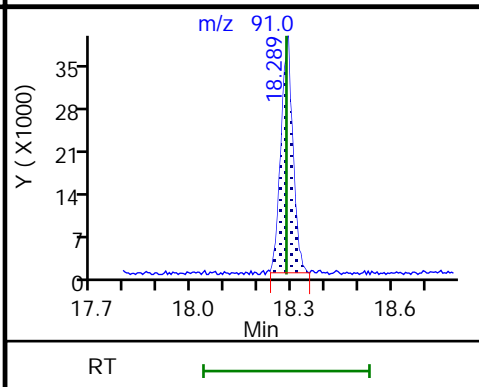
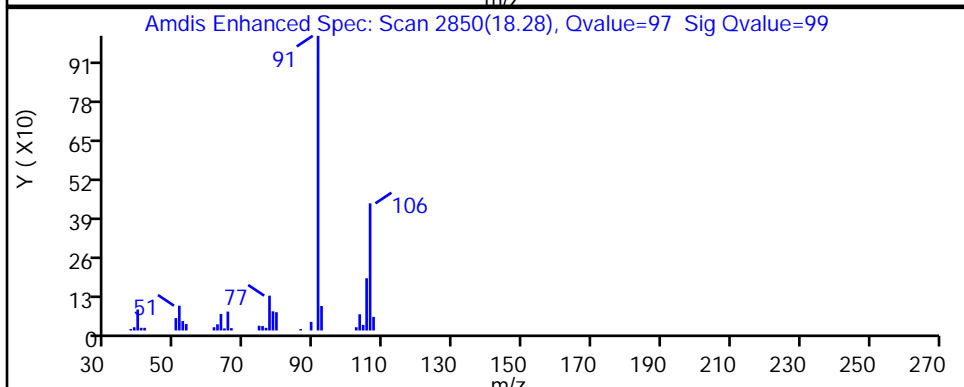
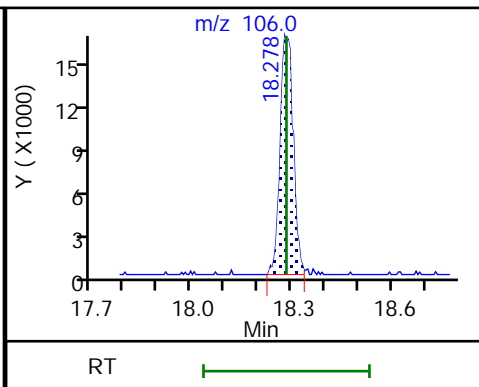
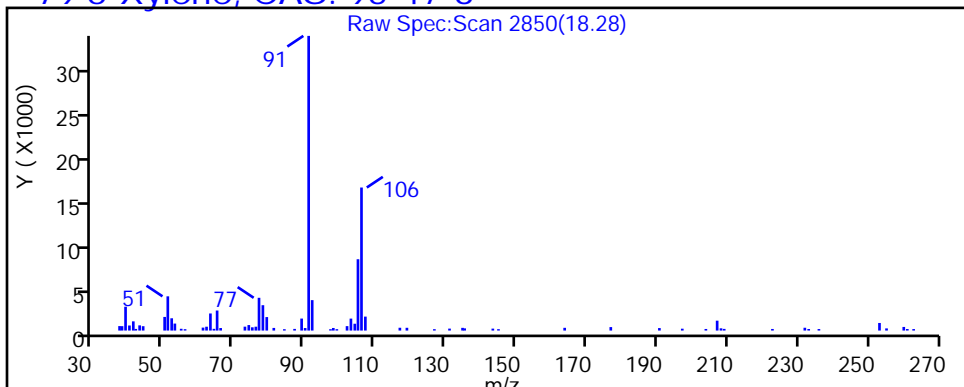
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6



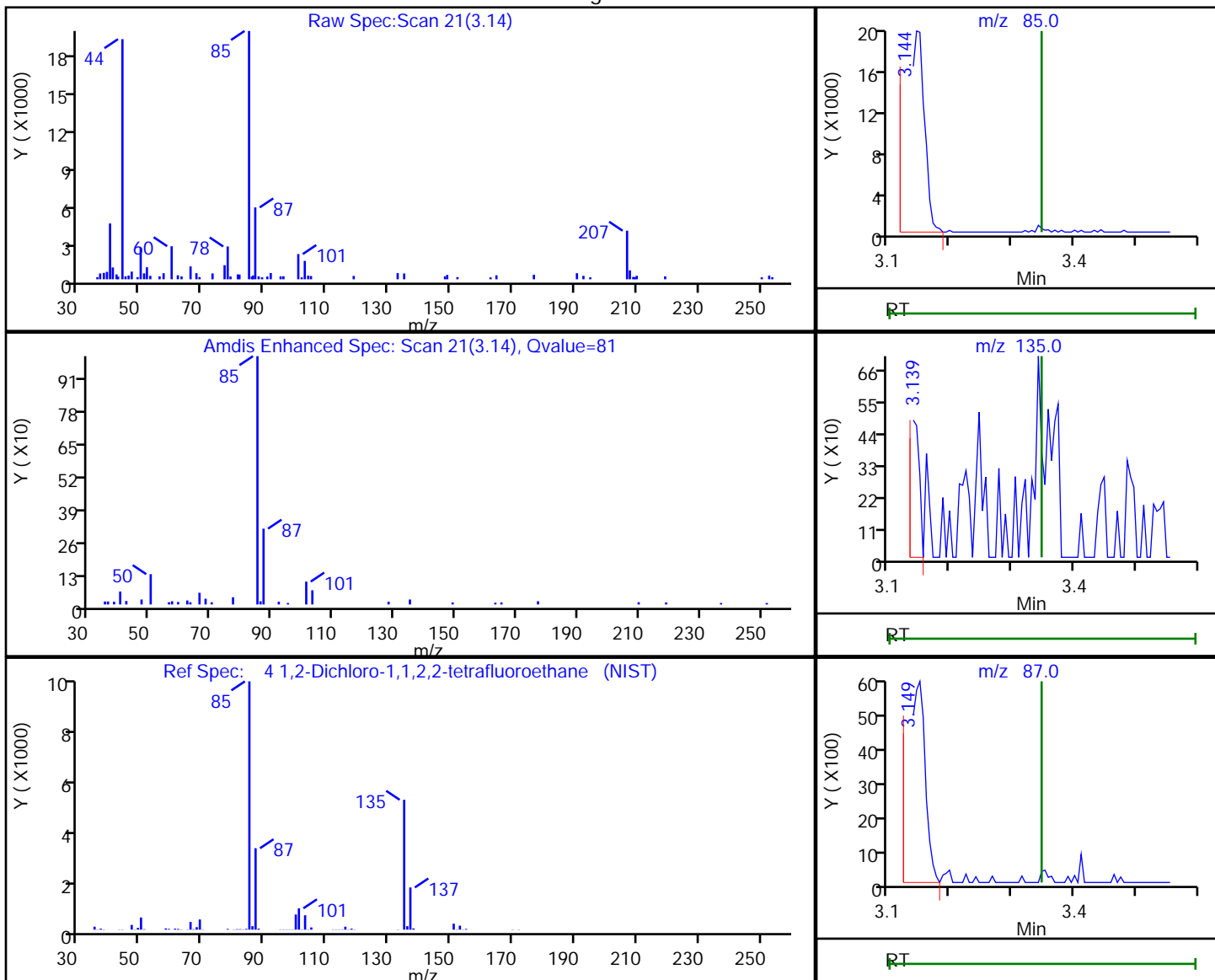


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 30259    | 0.193035 |
| 3.14 | 135.00 | 441      |          |
| 3.15 | 87.00  | 9727     |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:19

Audit Action: Marked Compound Undetected

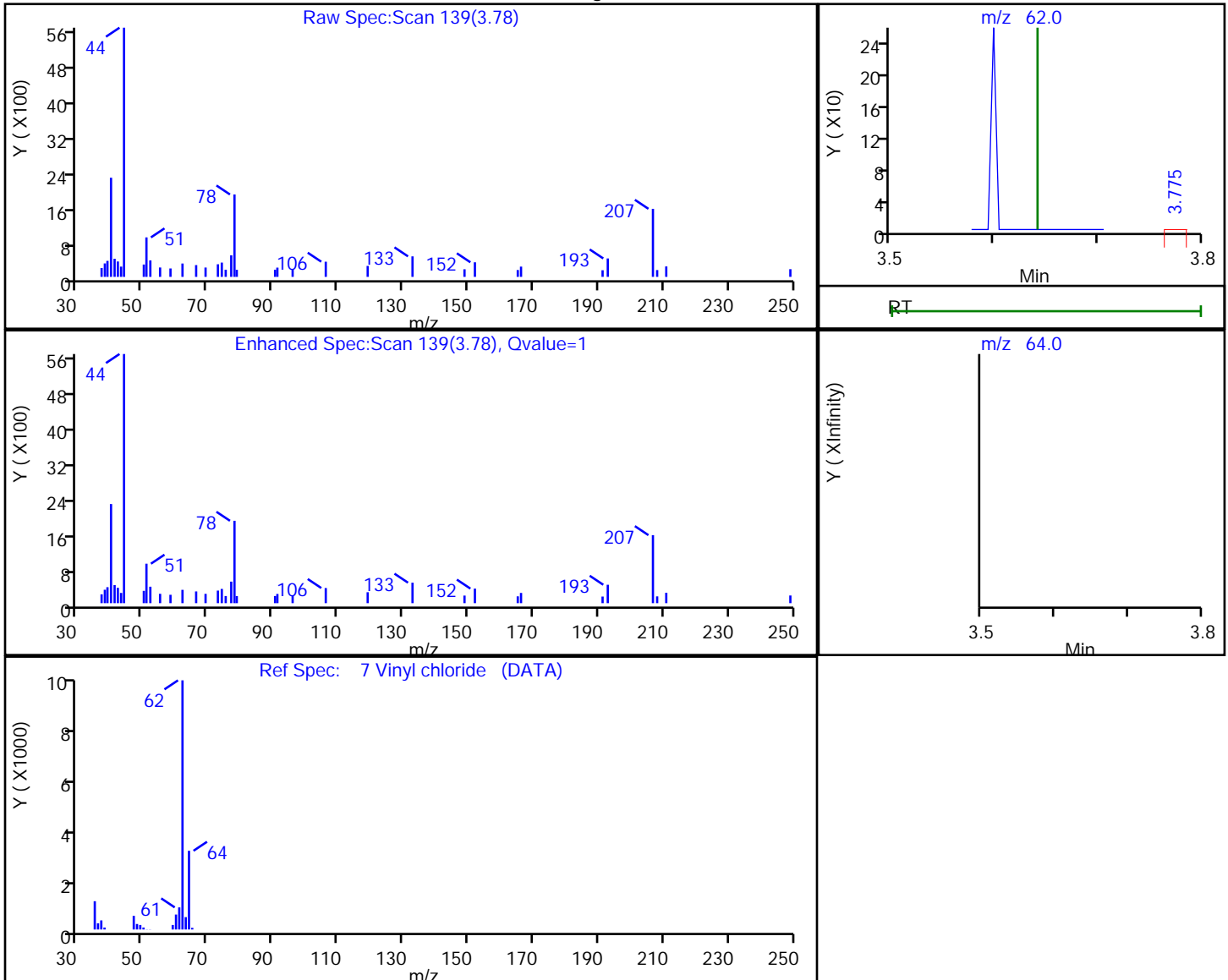
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.78 | 62.00 | 152      | 0.003116 |
| 3.64 | 64.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:27

Audit Action: Marked Compound Undetected

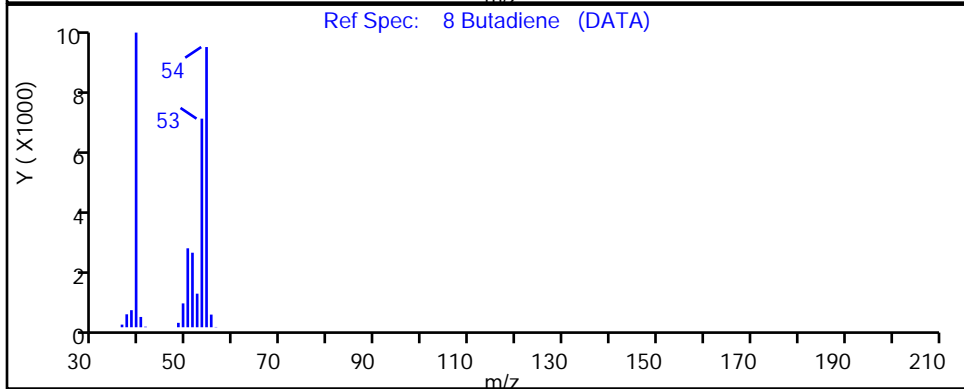
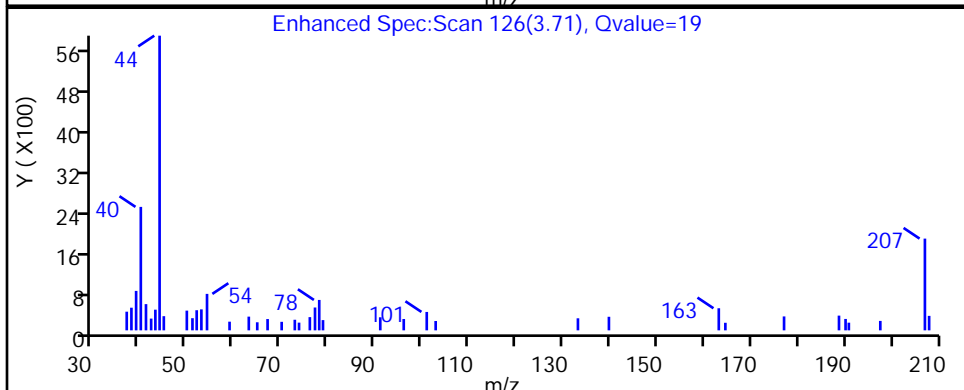
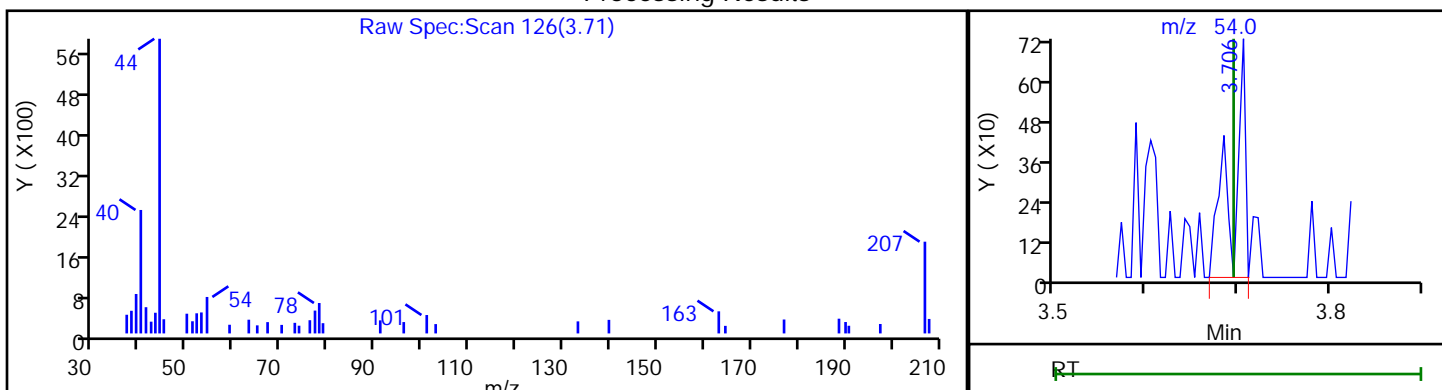
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.71 | 54.00 | 683      | 0.022502 |

Reviewer: puangmaleek, 07-Dec-2018 16:14:29

Audit Action: Marked Compound Undetected

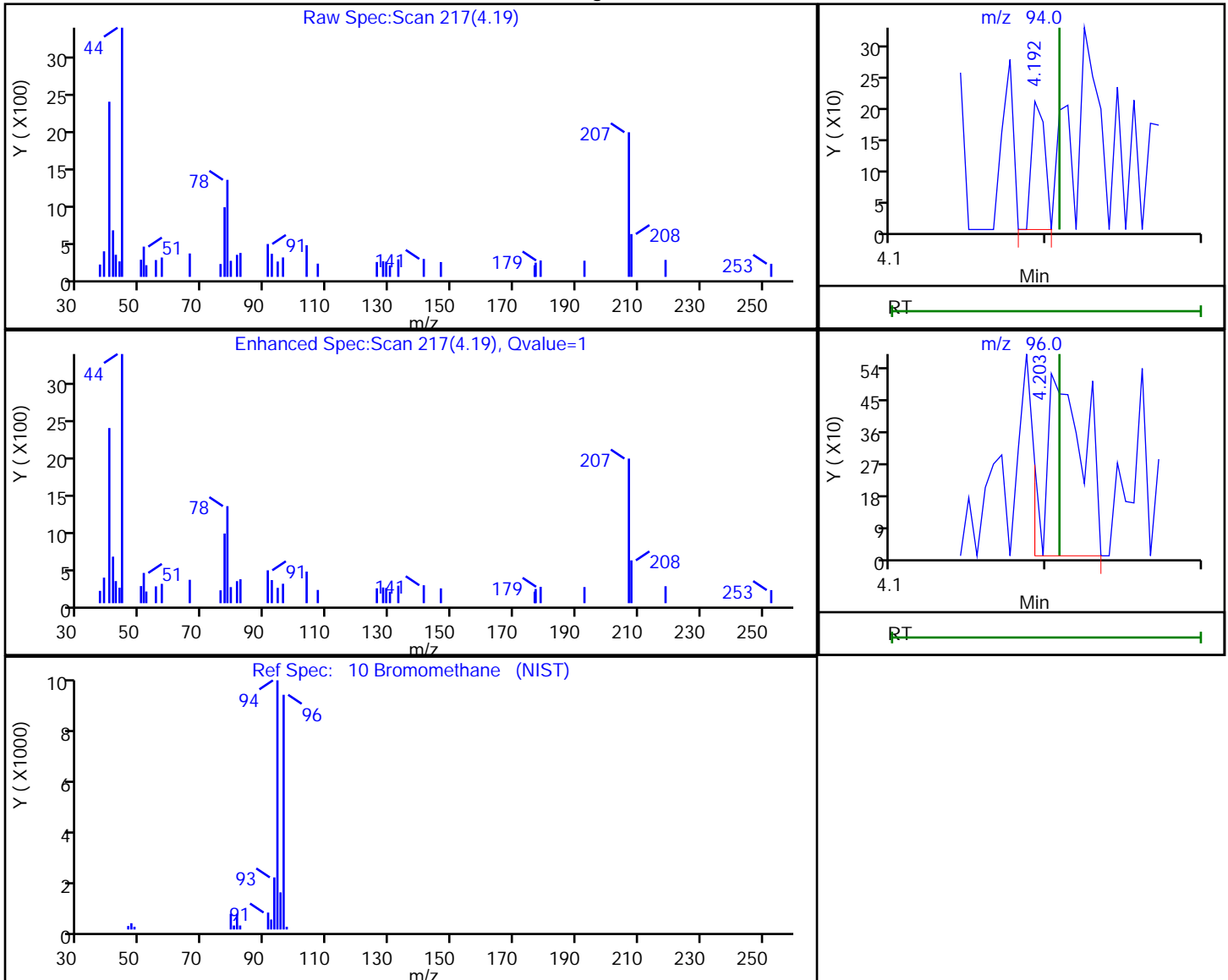
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.19 | 94.00 | 121      | 0.002148 |
| 4.20 | 96.00 | 885      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:30

Audit Action: Marked Compound Undetected

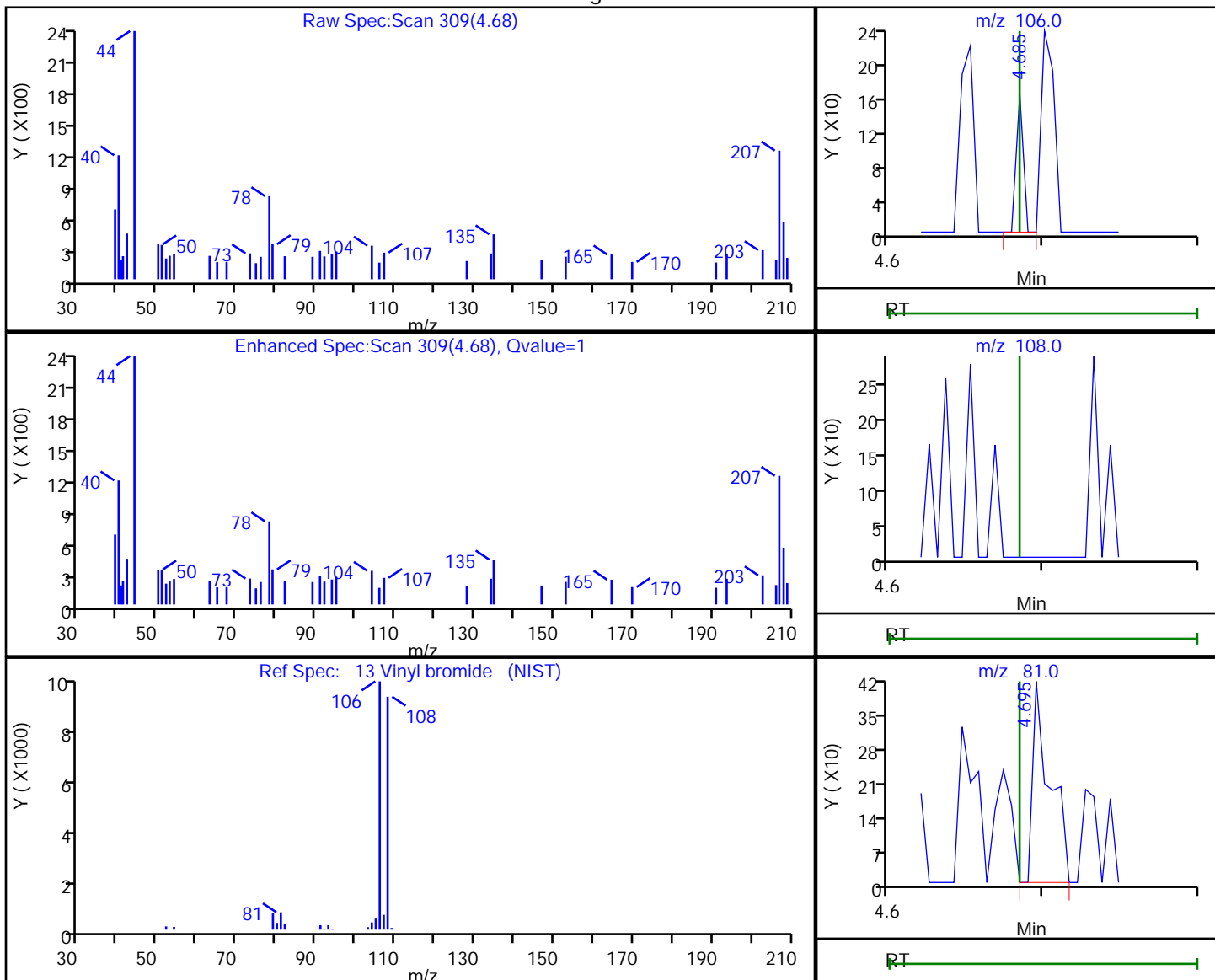
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.68 | 106.00 | 51       | 0.000916 |
| 4.68 | 108.00 | 0        |          |
| 4.70 | 81.00  | 323      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:31

Audit Action: Marked Compound Undetected

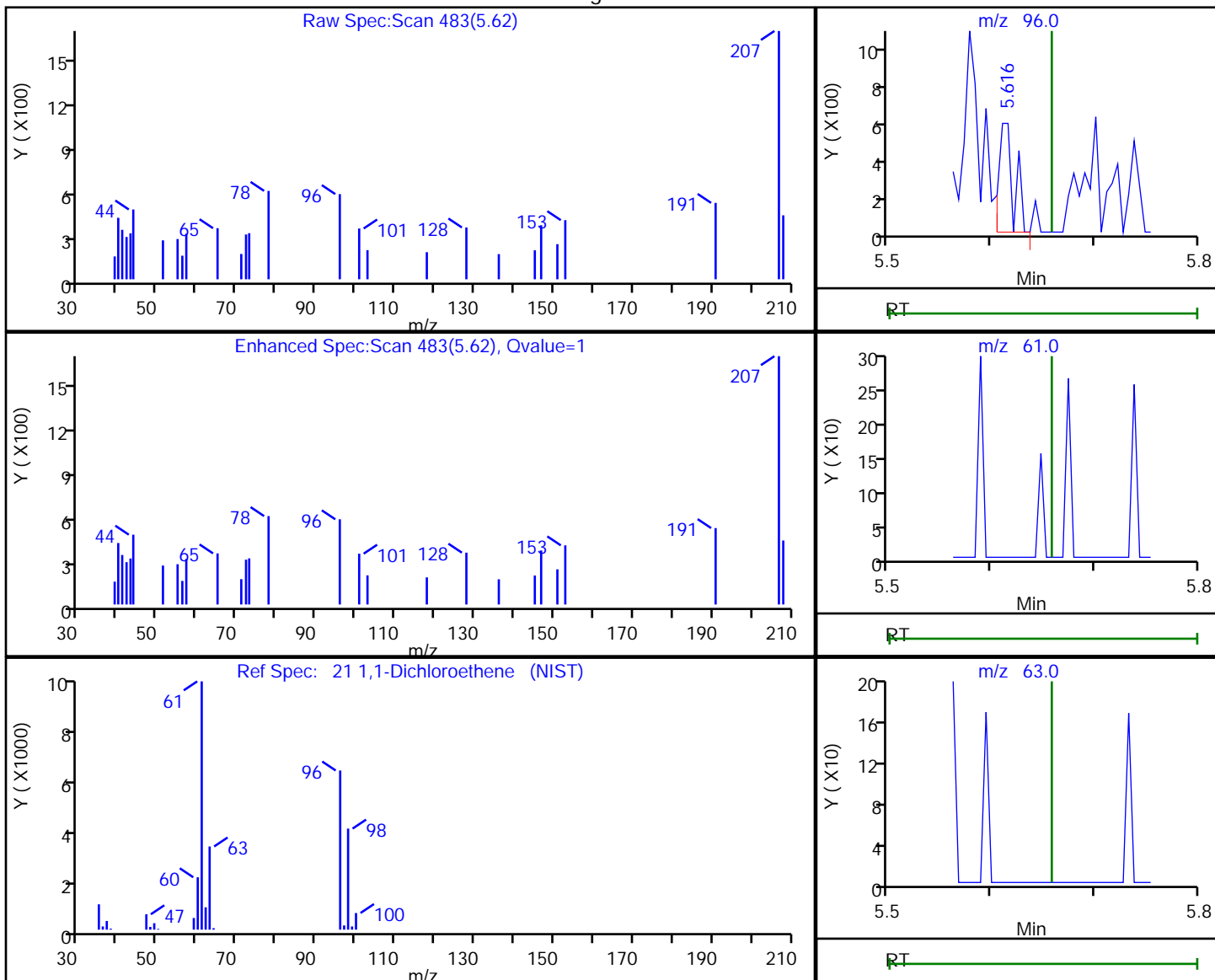
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.62 | 96.00 | 577      | 0.011305 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:36

Audit Action: Marked Compound Undetected

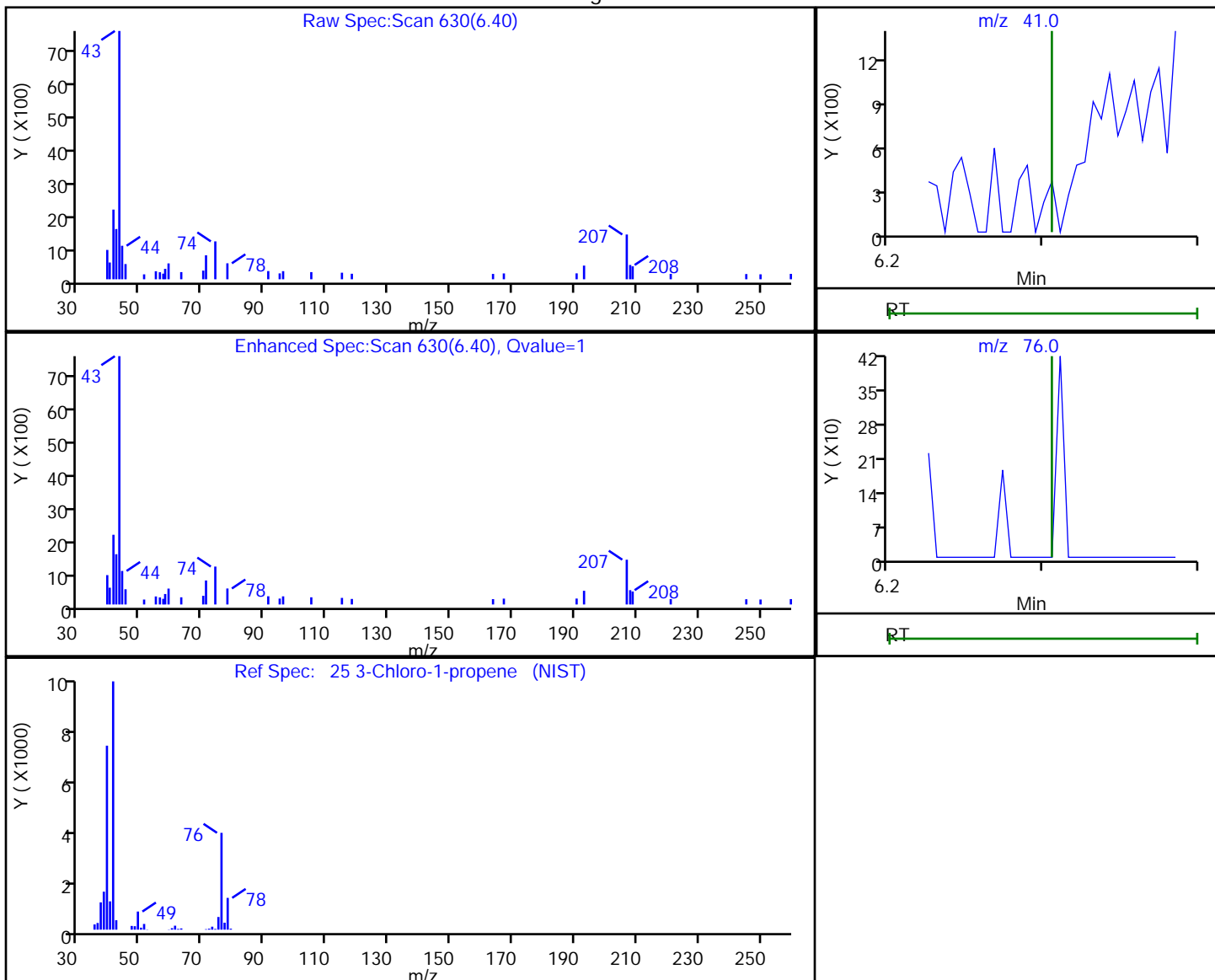
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.40 | 41.00 | 2279     | 0.060019 |
| 6.30 | 76.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:14:42

Audit Action: Marked Compound Undetected

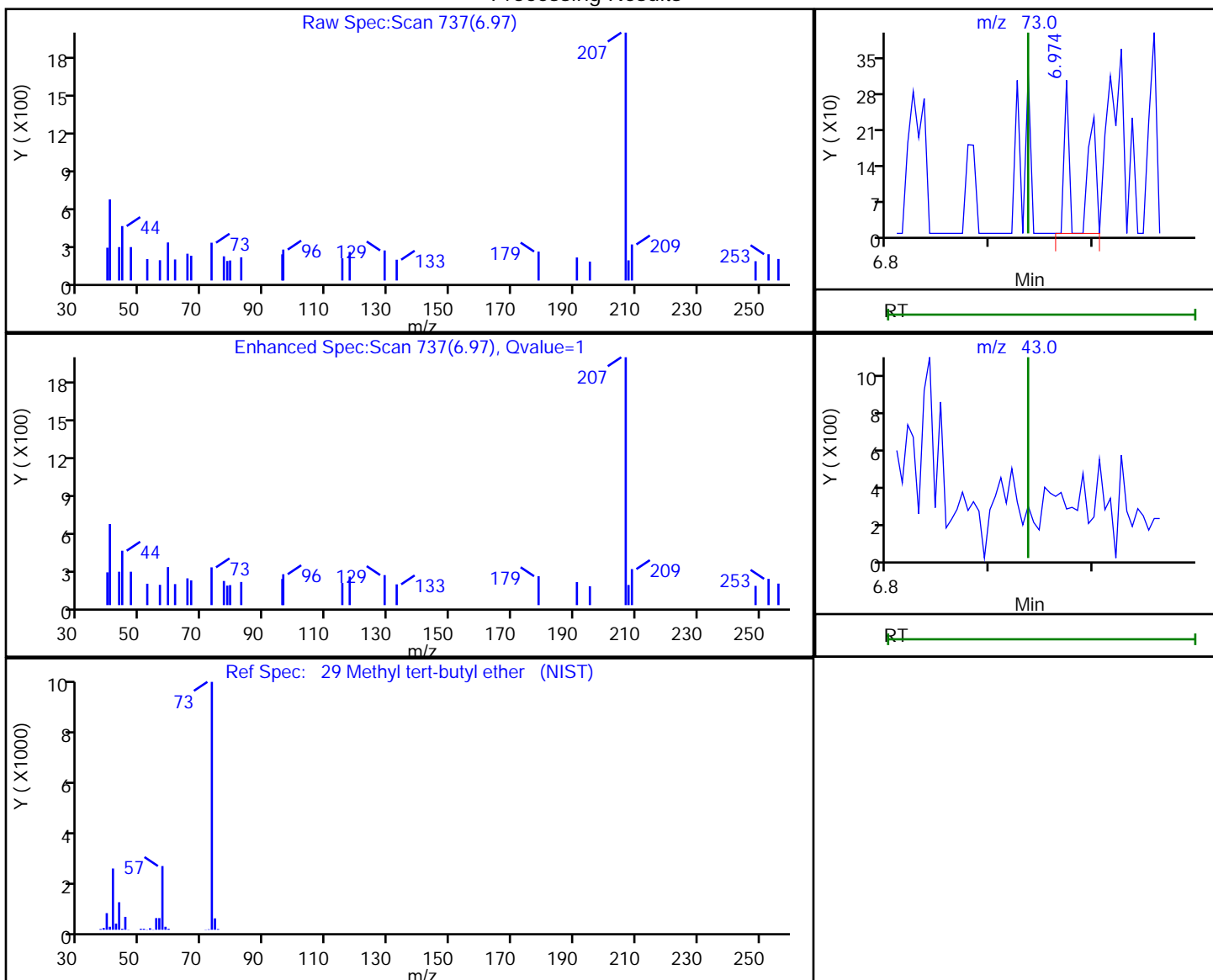
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.97 | 73.00 | 225      | 0.002268 |
| 6.93 | 43.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:15:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

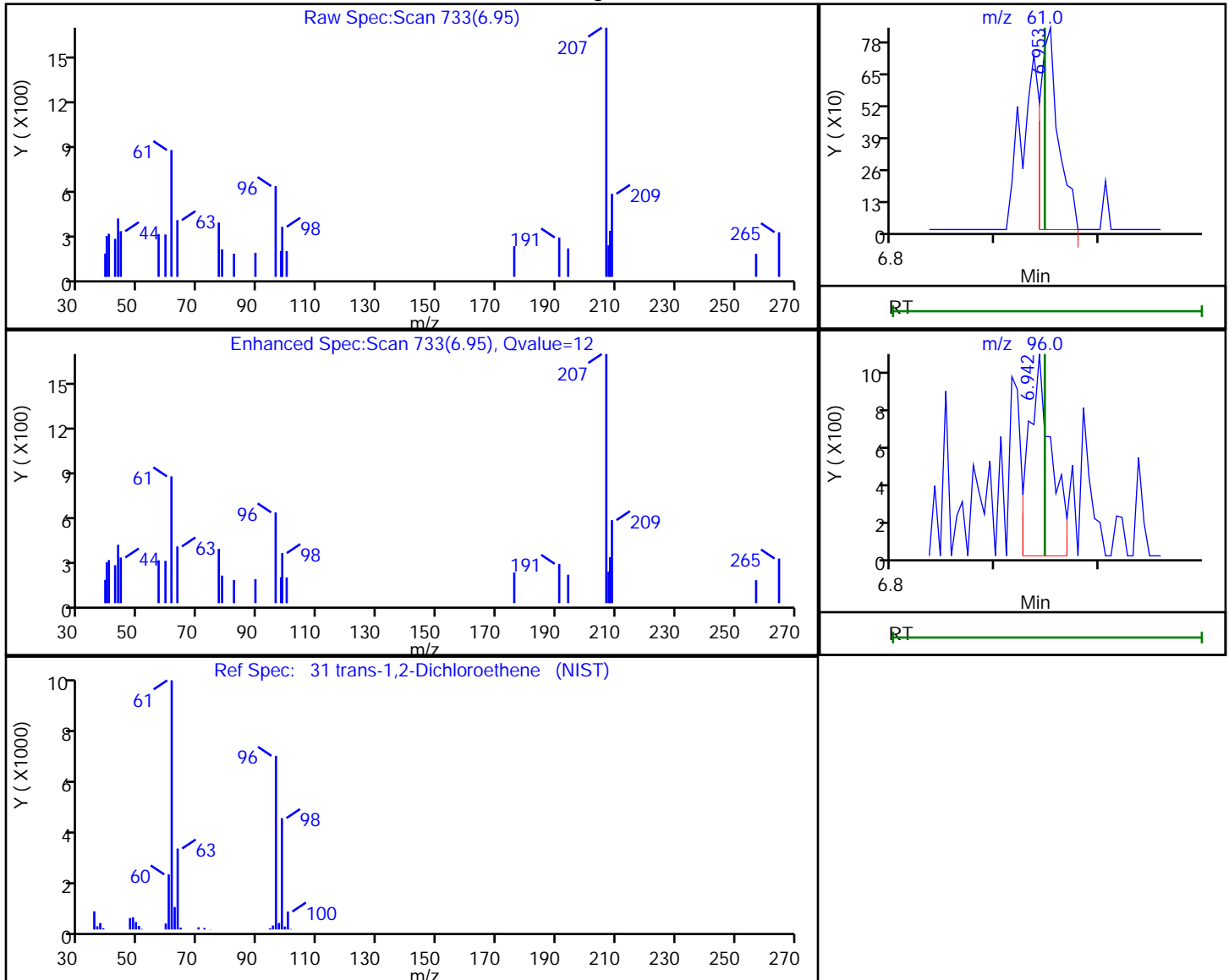


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.95 | 61.00 | 1022     | 0.016527 |
| 6.94 | 96.00 | 1532     |          |

Reviewer: puangmaleek, 07-Dec-2018 16:15:07

Audit Action: Marked Compound Undetected

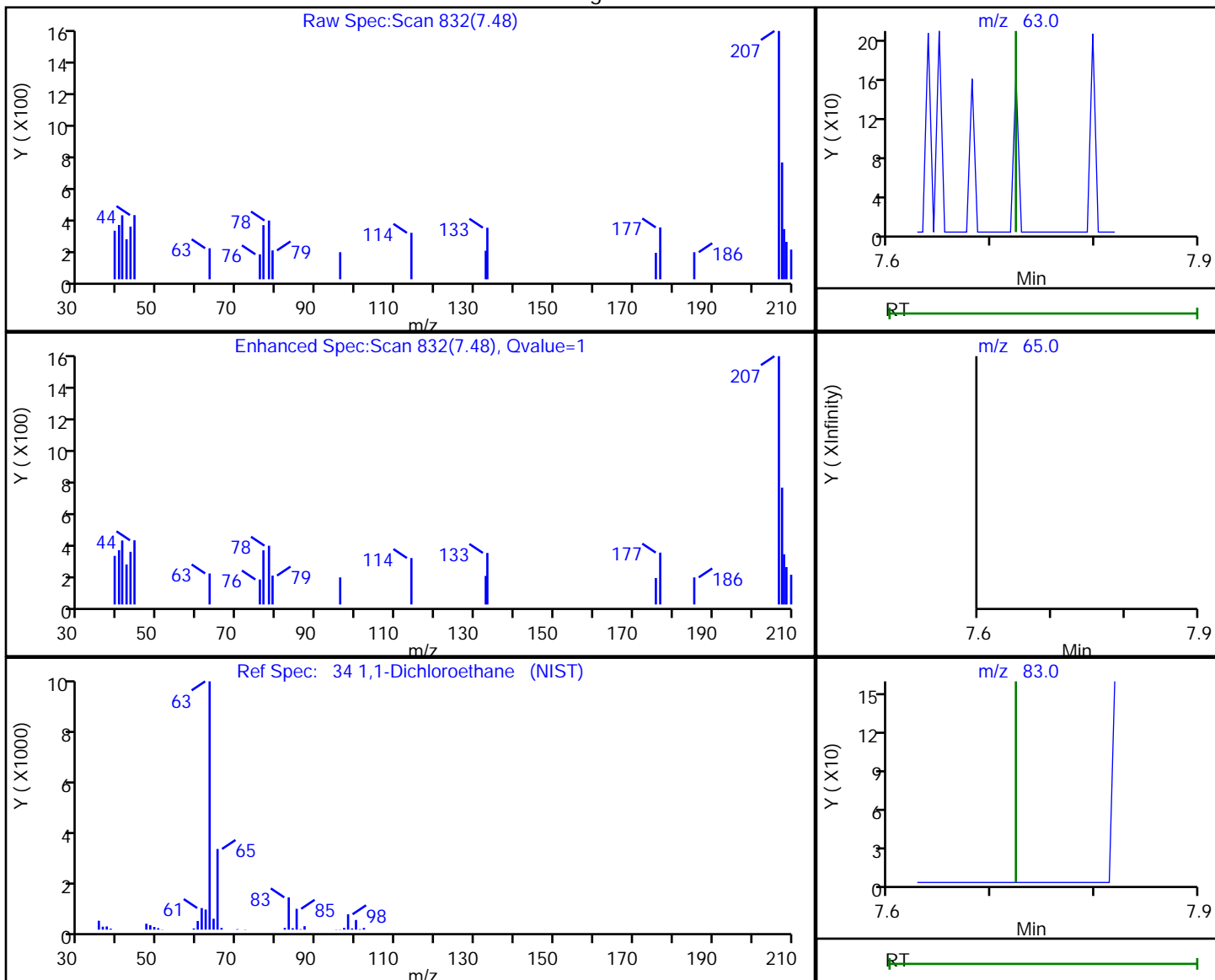
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.48 | 63.00 | 109      | 0.001366 |
| 7.72 | 65.00 | 0        |          |
| 7.72 | 83.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:15:11

Audit Action: Marked Compound Undetected

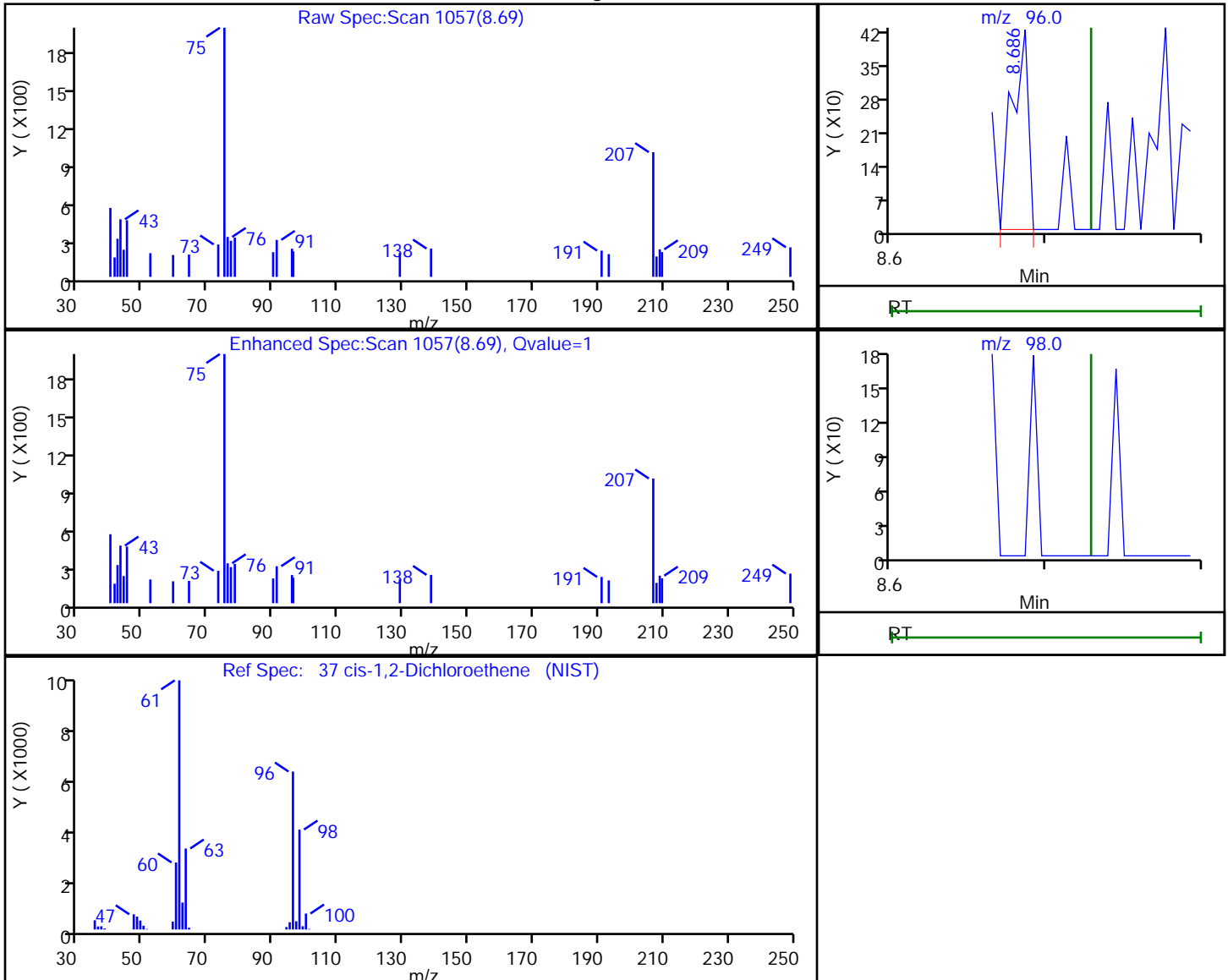
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.69 | 96.00 | 306      | 0.006329 |
| 8.72 | 98.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:15:13

Audit Action: Marked Compound Undetected

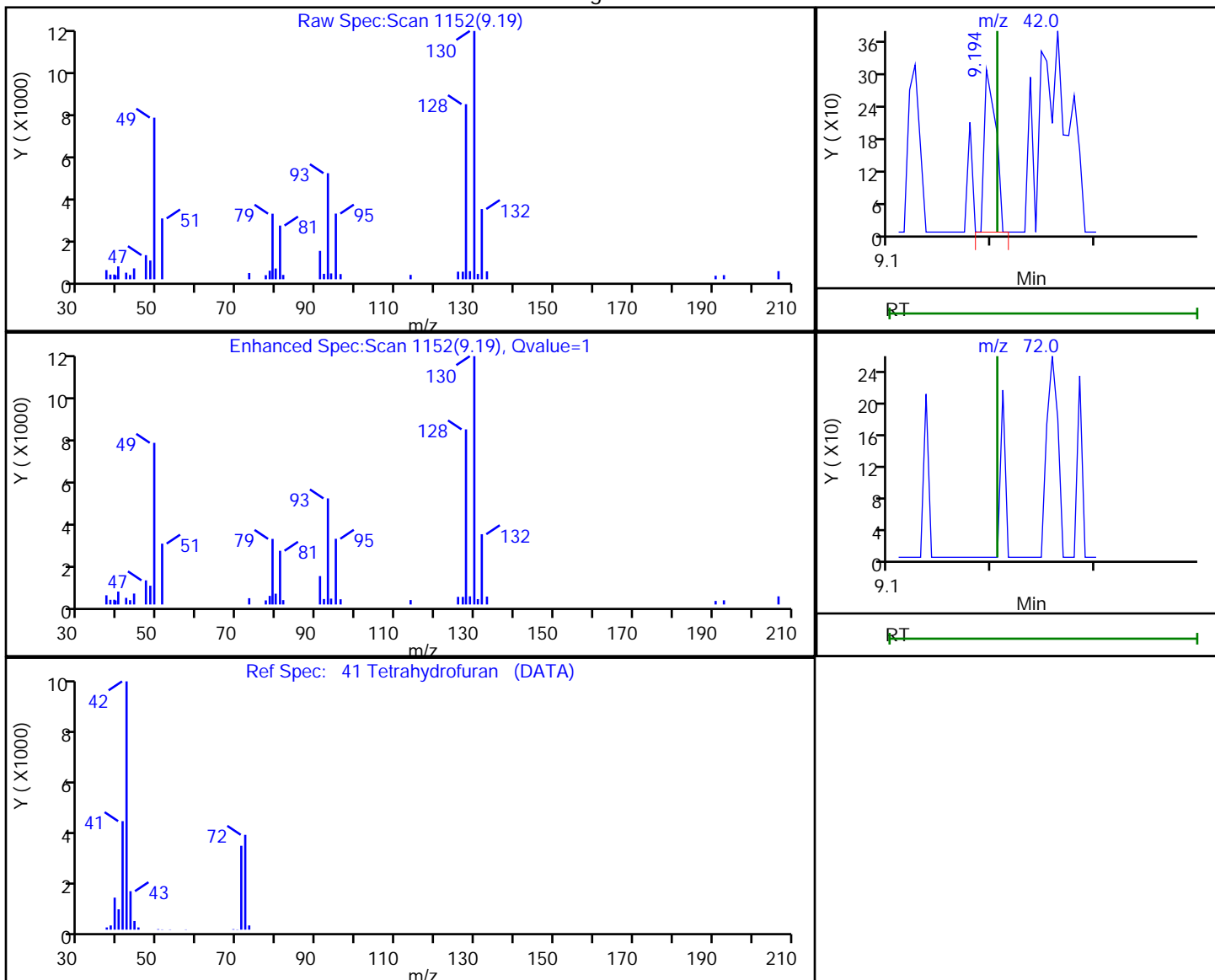
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.19 | 42.00 | 236      | 0.008611 |
| 9.21 | 72.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:15:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

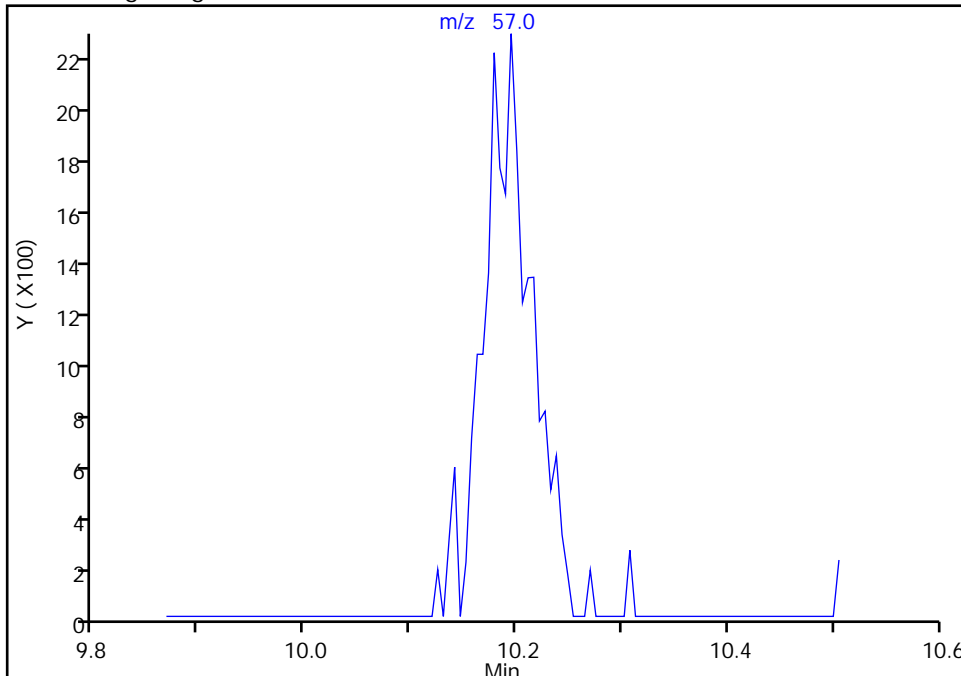
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Isooctane, CAS: 540-84-1

Signal: 1

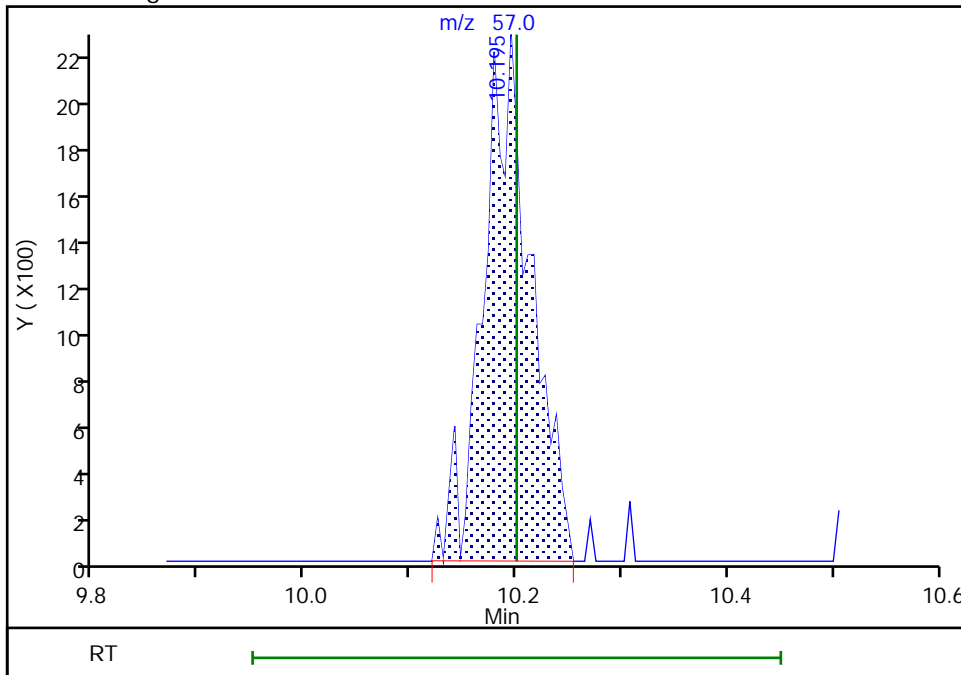
Not Detected  
Expected RT: 10.20

Processing Integration Results



Manual Integration Results

RT: 10.19  
Area: 6851  
Amount: 0.037560  
Amount Units: ppb v/v



Reviewer: puangmaleek, 07-Dec-2018 16:15:38  
Audit Action: Manually Integrated

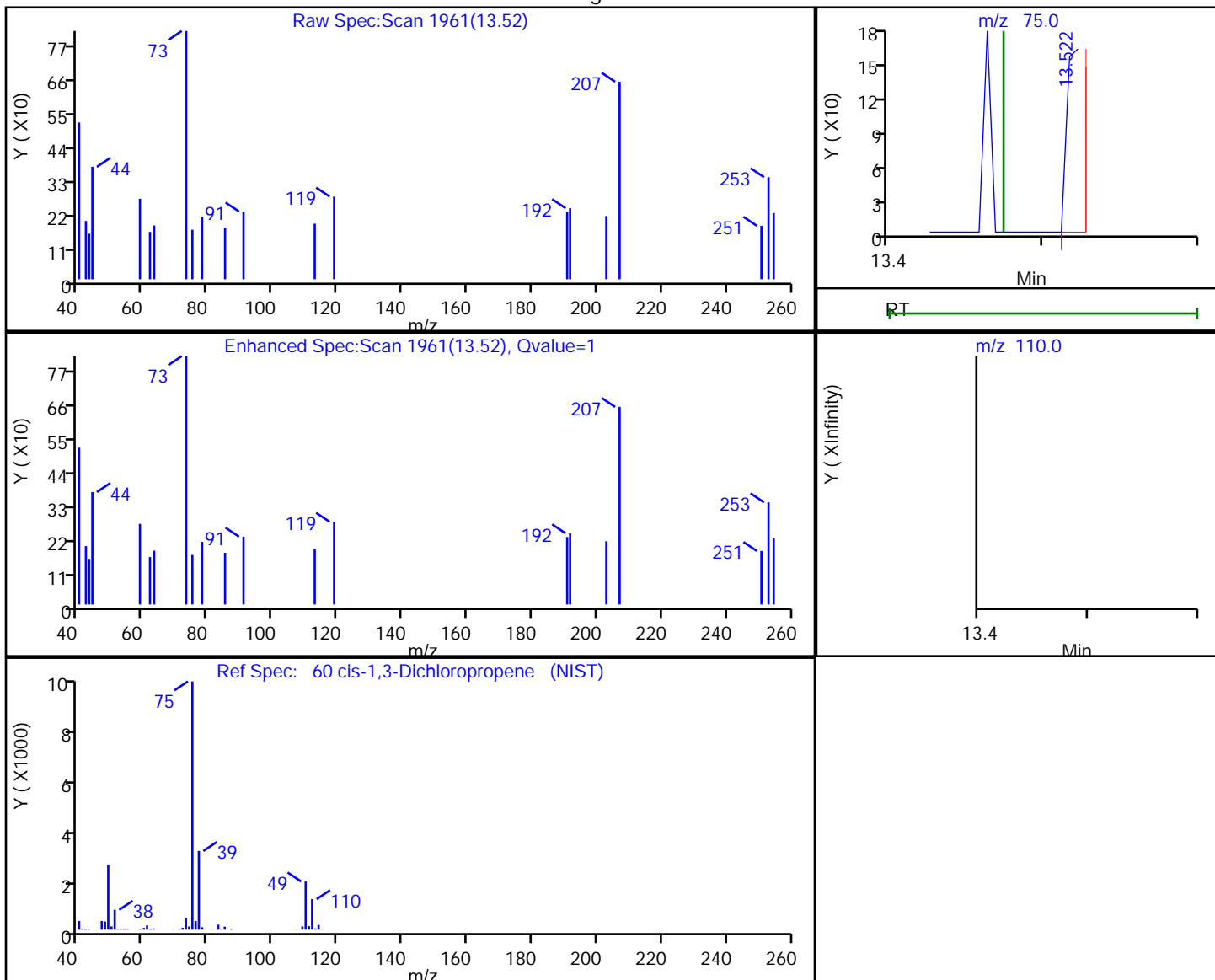
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.52 | 75.00  | 102      | 0.001267 |
| 13.47 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:34:52

Audit Action: Marked Compound Undetected

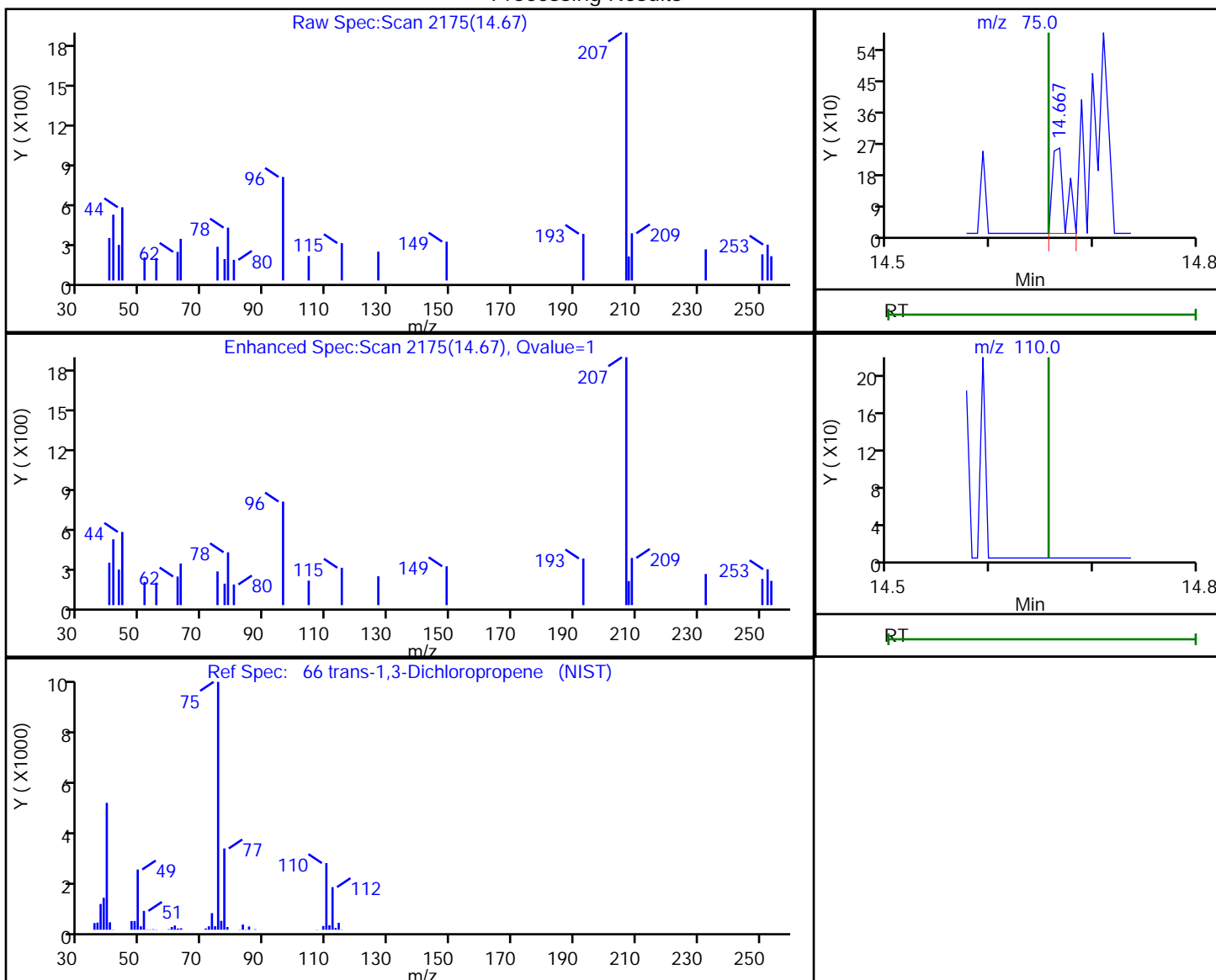
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.67 | 75.00  | 209      | 0.002640 |
| 14.65 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:34:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

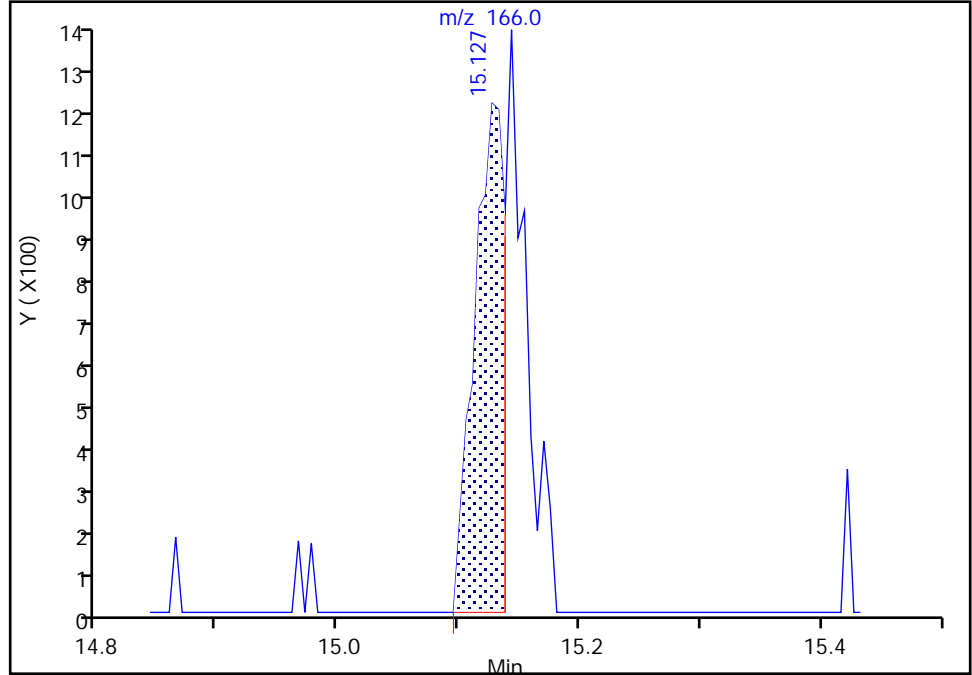
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

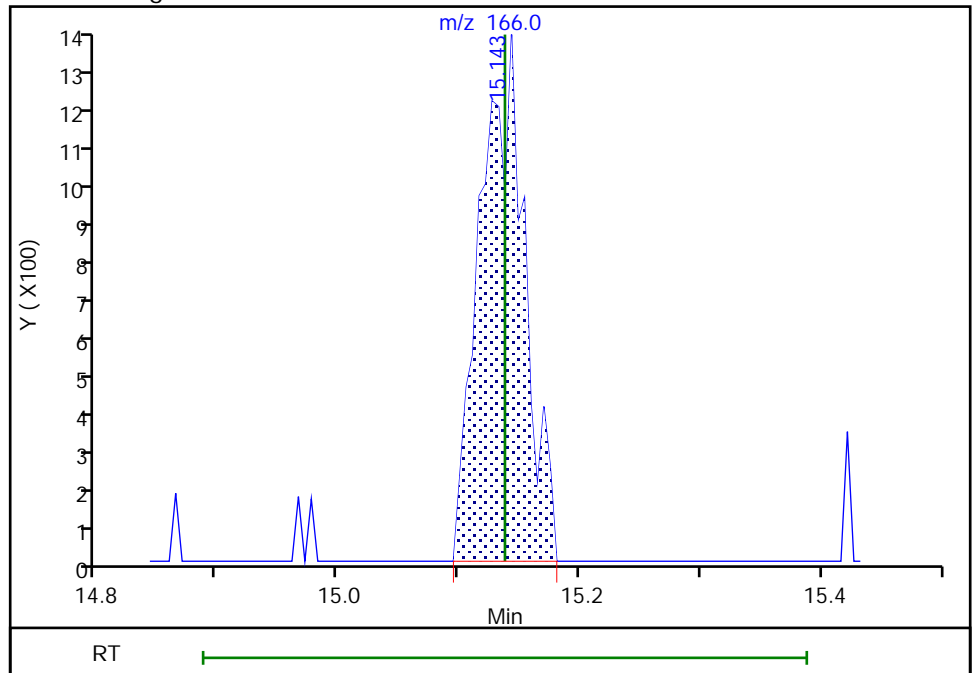
RT: 15.13  
Area: 2098  
Amount: 0.017904  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.14  
Area: 3543  
Amount: 0.030235  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 16:35:04

Audit Action: Manually Integrated

Audit Reason: Assign Peak

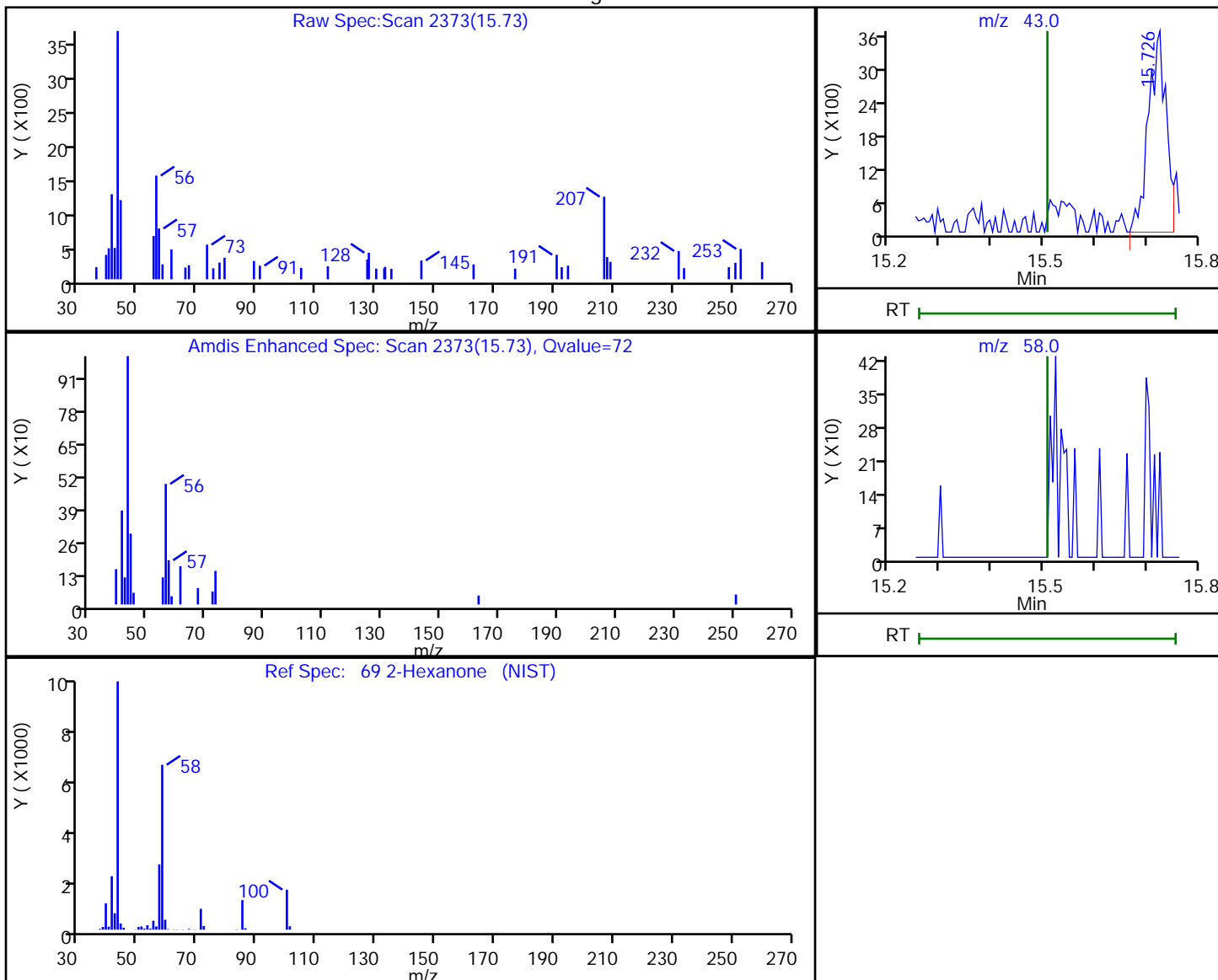


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.73 | 43.00 | 8817     | 0.102505 |
| 15.51 | 58.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:07

Audit Action: Marked Compound Undetected

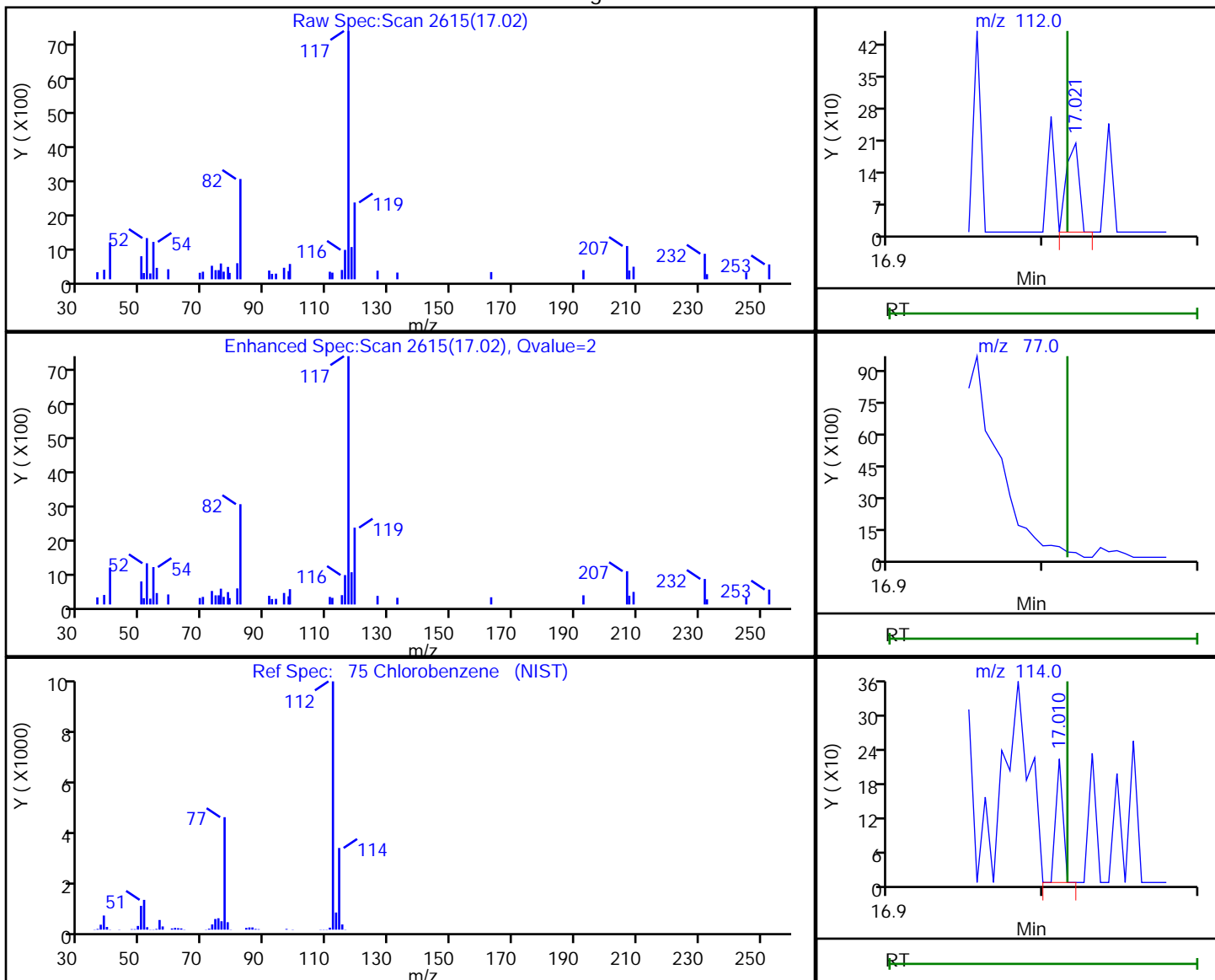
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.02 | 112.00 | 111      | 0.000737 |
| 17.02 | 77.00  | 0        |          |
| 17.01 | 114.00 | 71       |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:11

Audit Action: Marked Compound Undetected

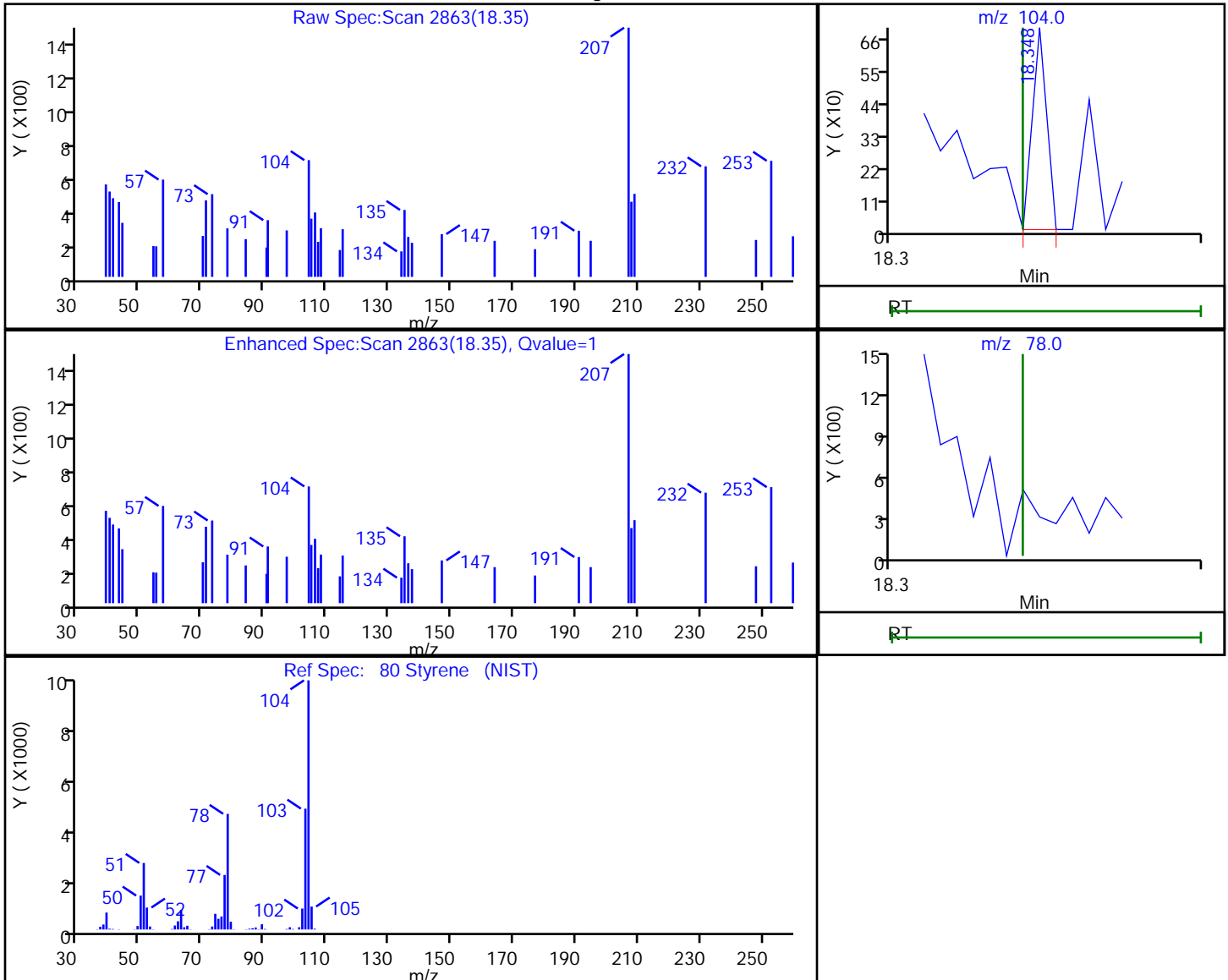
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.35 | 104.00 | 223      | 0.001716 |
| 18.34 | 78.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:16

Audit Action: Marked Compound Undetected

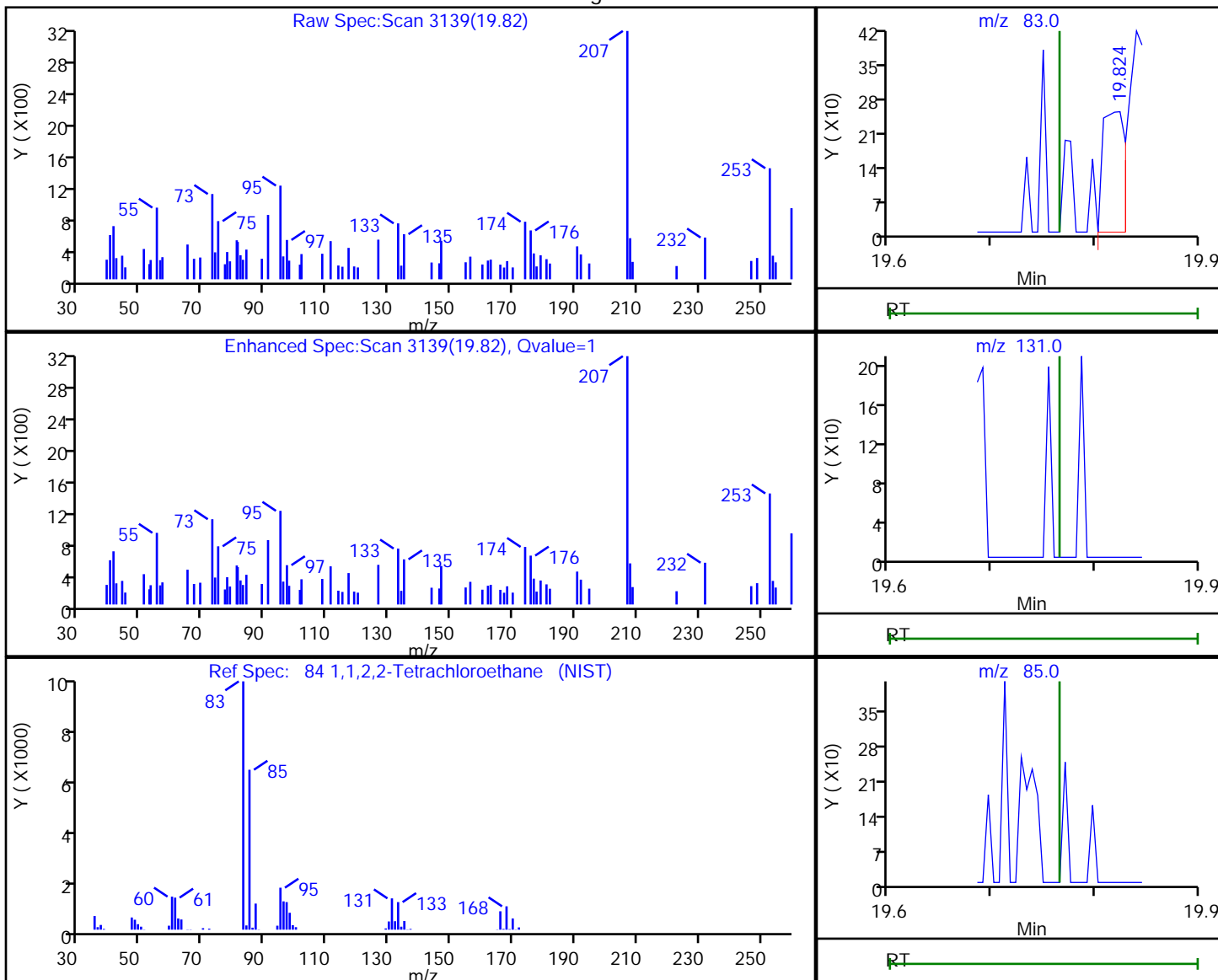
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.82 | 83.00  | 373      | 0.002754 |
| 19.76 | 131.00 | 0        |          |
| 19.76 | 85.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

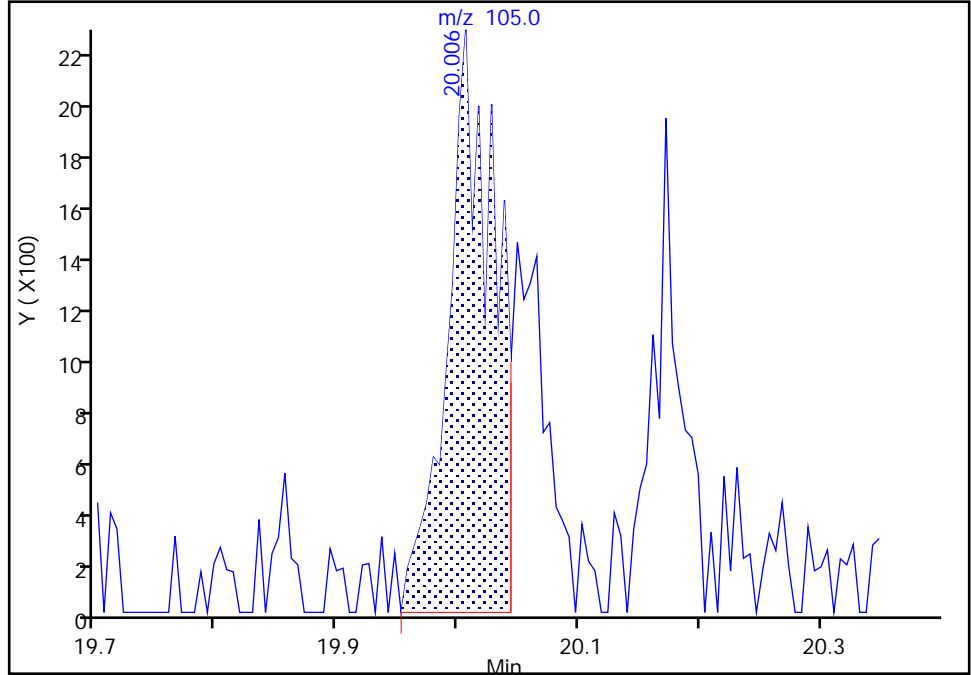
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

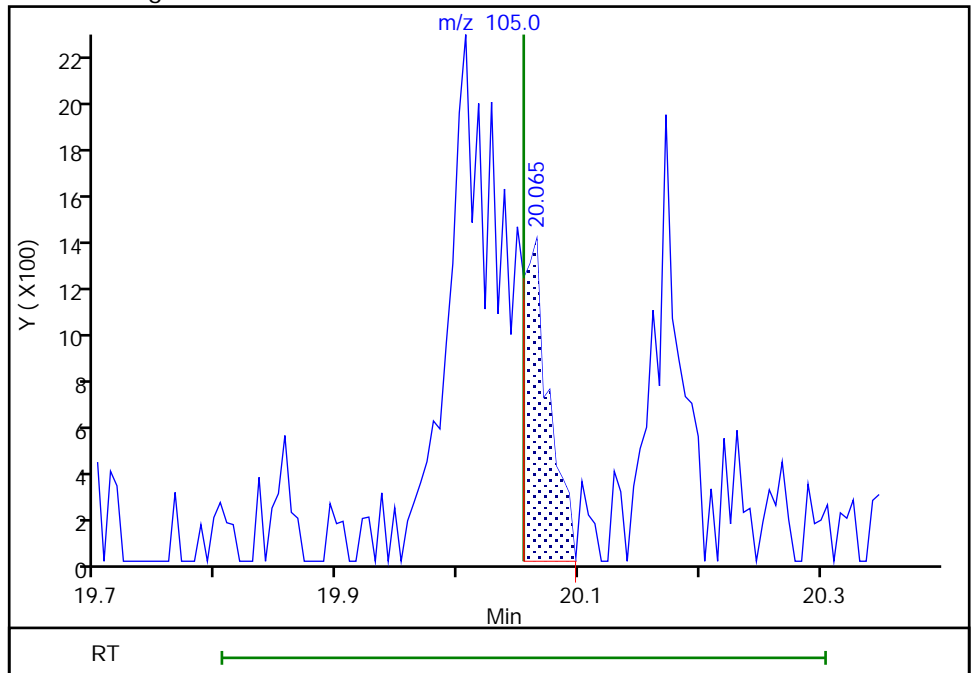
RT: 20.01  
Area: 6004  
Amount: 0.023859  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.07  
Area: 2025  
Amount: 0.008047  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 16:35:27  
Audit Action: Assigned Compound ID

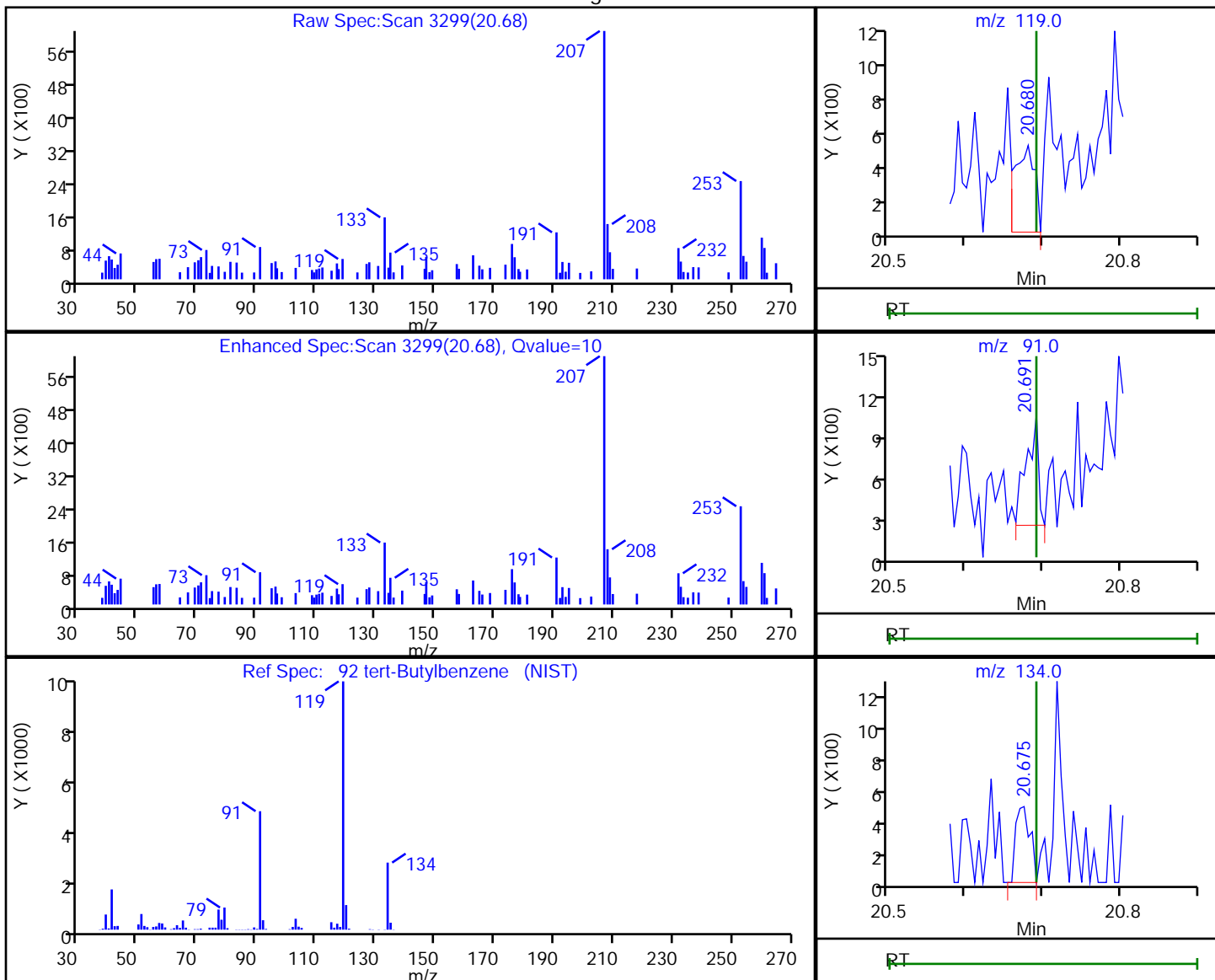
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.68 | 119.00 | 890      | 0.004419 |
| 20.69 | 91.00  | 880      |          |
| 20.67 | 134.00 | 615      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:32

Audit Action: Marked Compound Undetected

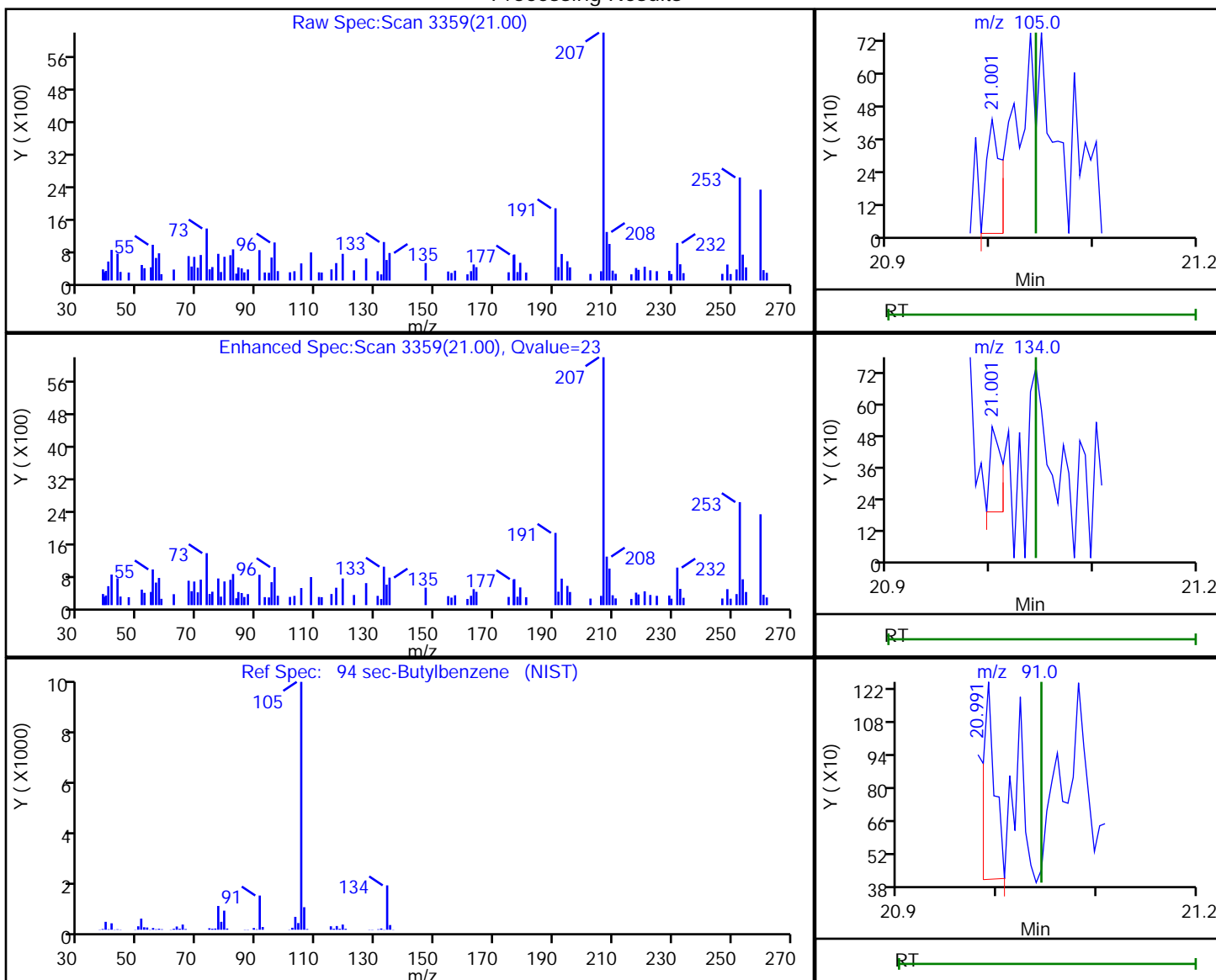
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.00 | 105.00 | 401      | 0.001343 |
| 21.00 | 134.00 | 247      |          |
| 20.99 | 91.00  | 662      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:35

Audit Action: Marked Compound Undetected

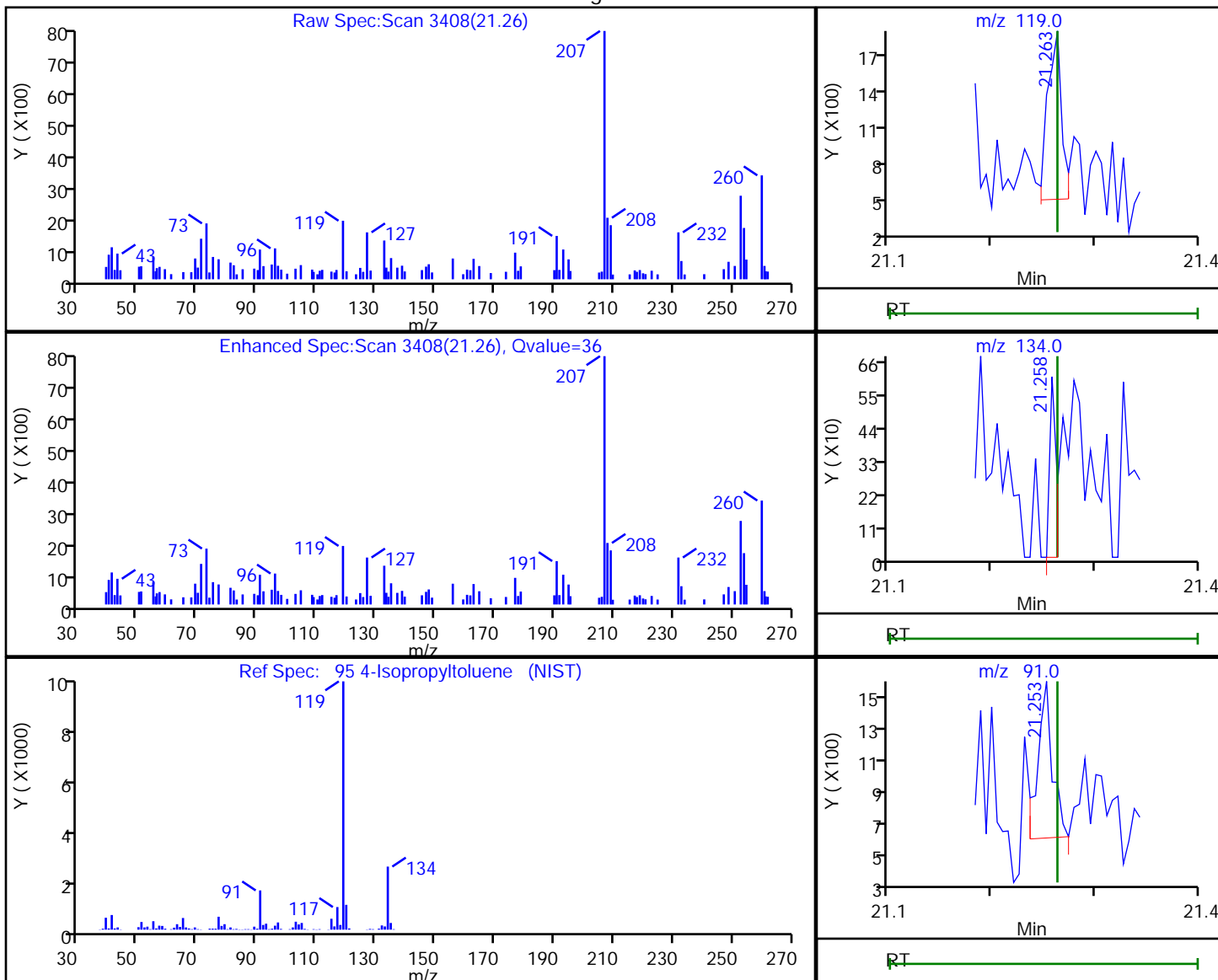
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 119.00 | 1282     | 0.005009 |
| 21.26 | 134.00 | 273      |          |
| 21.25 | 91.00  | 871      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

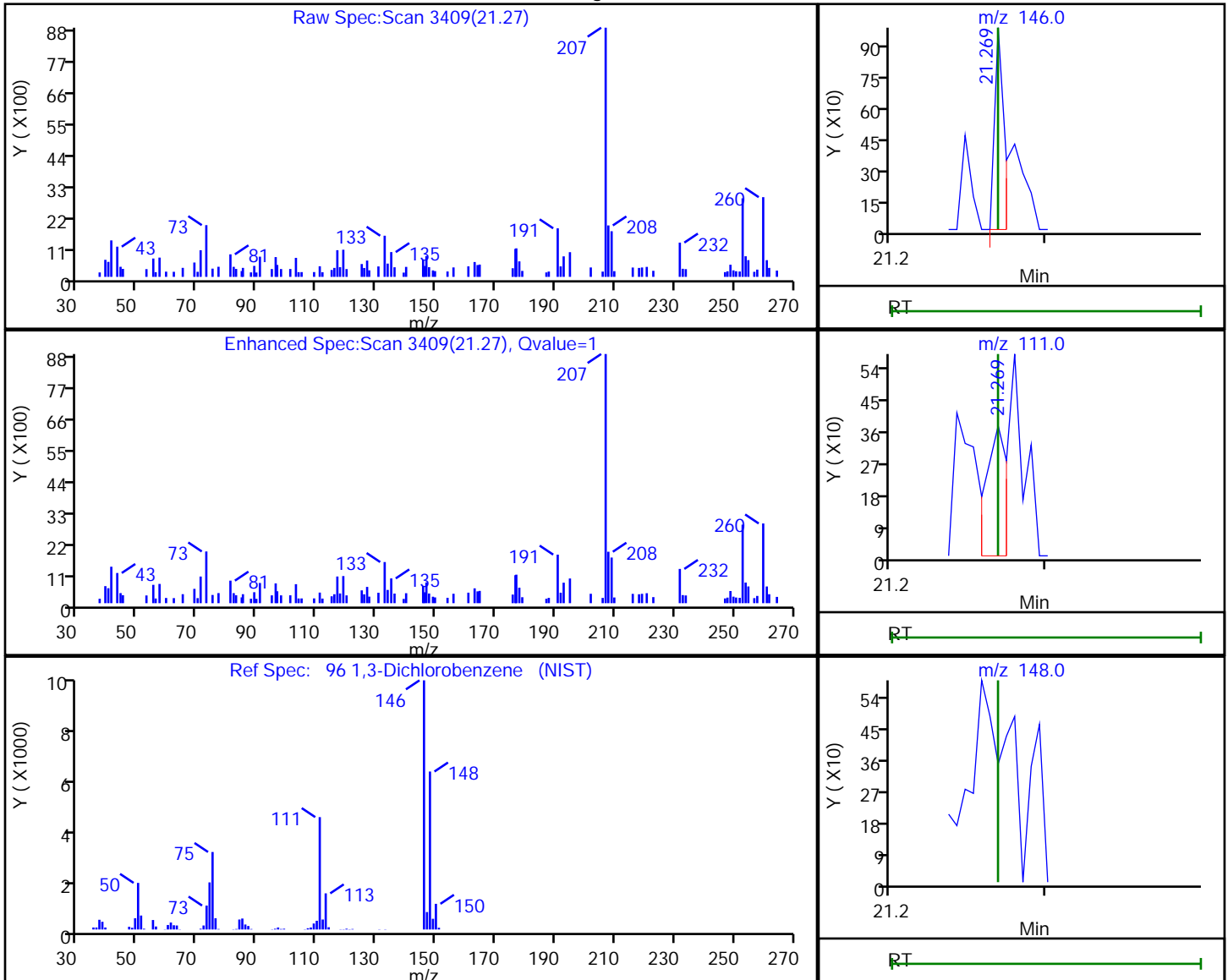


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.27 | 146.00 | 427      | 0.002480 |
| 21.27 | 111.00 | 349      |          |
| 21.27 | 148.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:38

Audit Action: Marked Compound Undetected

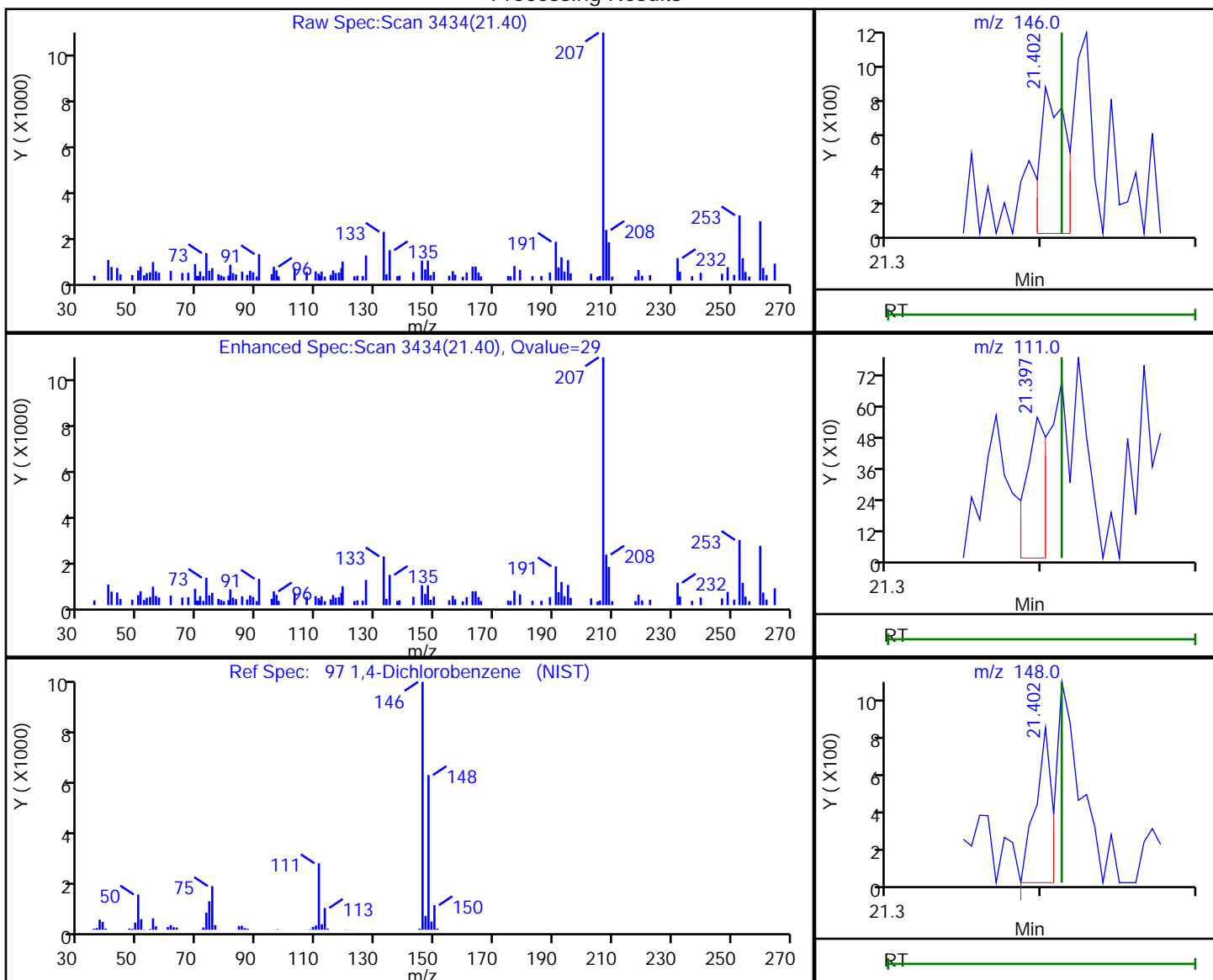
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.40 | 146.00 | 921      | 0.005595 |
| 21.40 | 111.00 | 521      |          |
| 21.40 | 148.00 | 596      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:41

Audit Action: Marked Compound Undetected

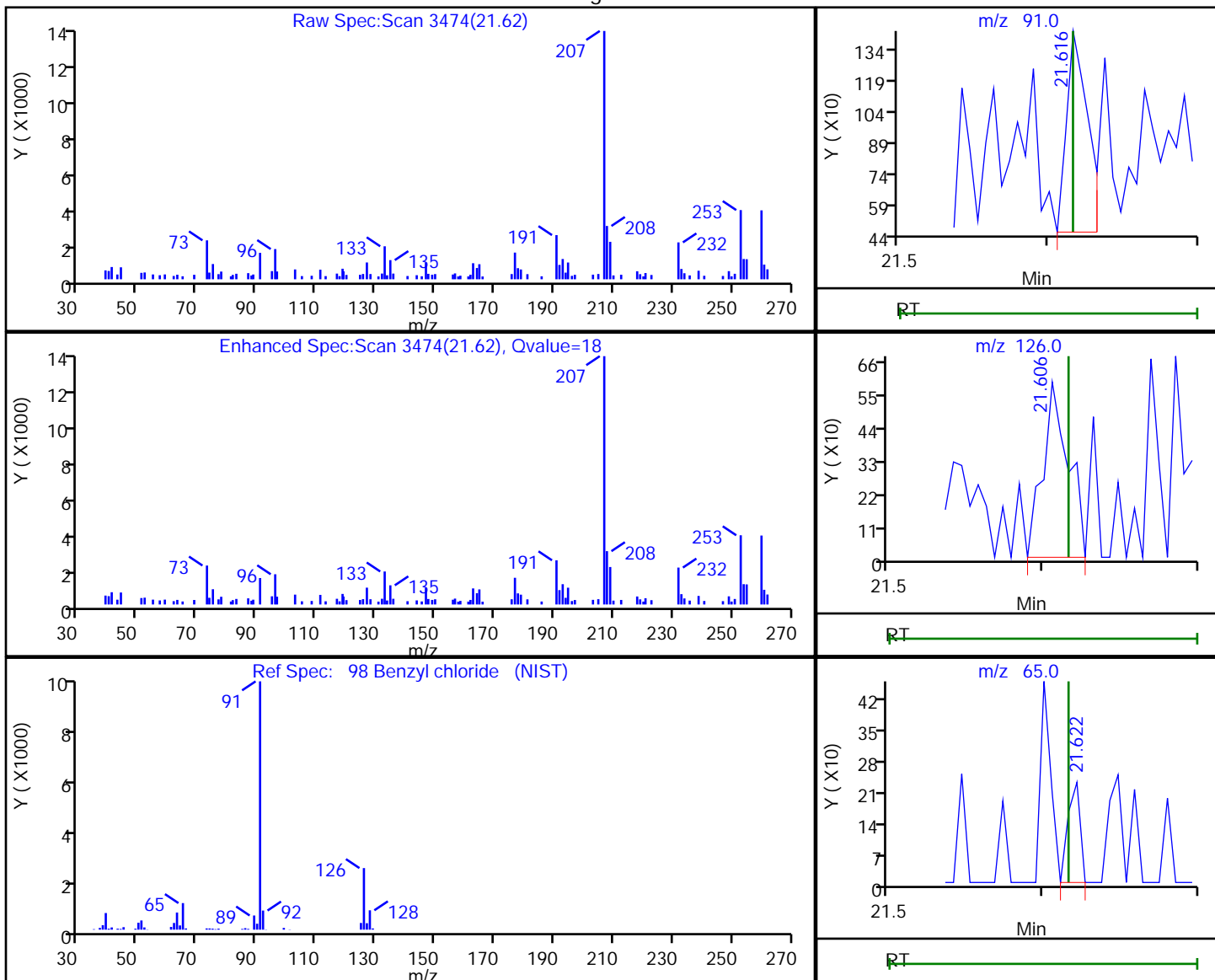
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.62 | 91.00  | 969      | 0.004768 |
| 21.61 | 126.00 | 678      |          |
| 21.62 | 65.00  | 125      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:43

Audit Action: Marked Compound Undetected

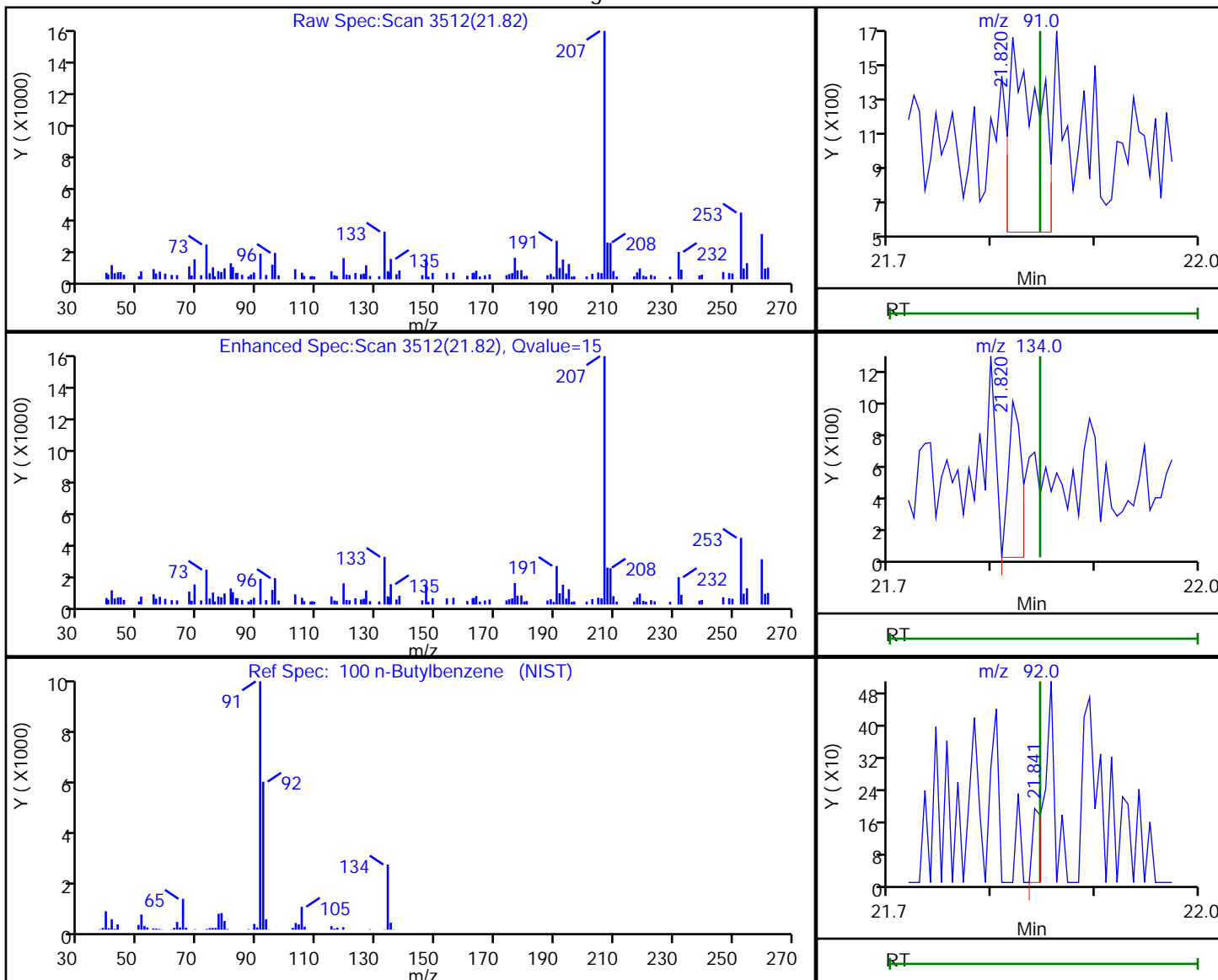
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.82 | 91.00  | 2029     | 0.008695 |
| 21.82 | 134.00 | 835      |          |
| 21.84 | 92.00  | 115      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:45

Audit Action: Marked Compound Undetected

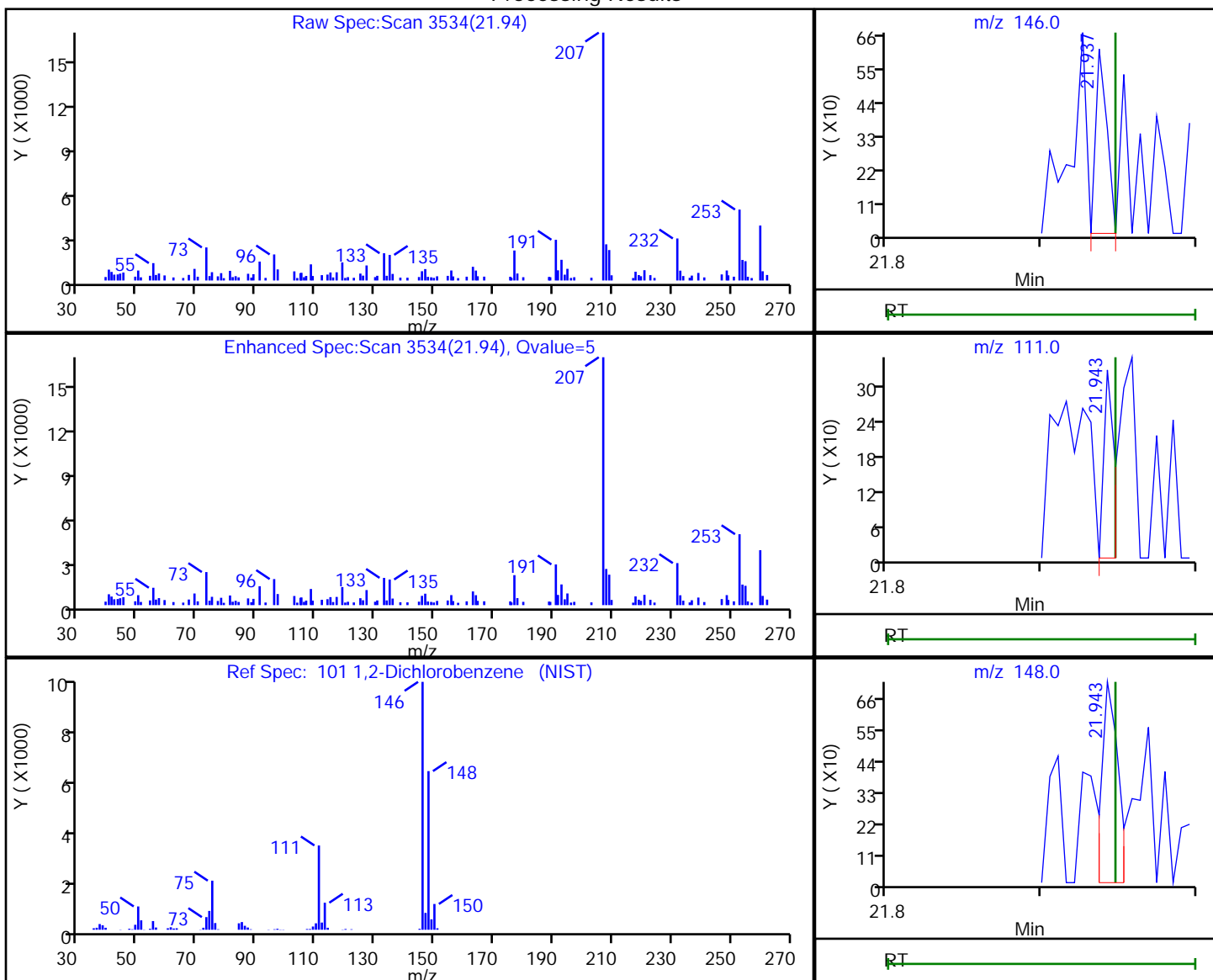
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.94 | 146.00 | 308      | 0.001947 |
| 21.94 | 111.00 | 154      |          |
| 21.94 | 148.00 | 535      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:46

Audit Action: Marked Compound Undetected

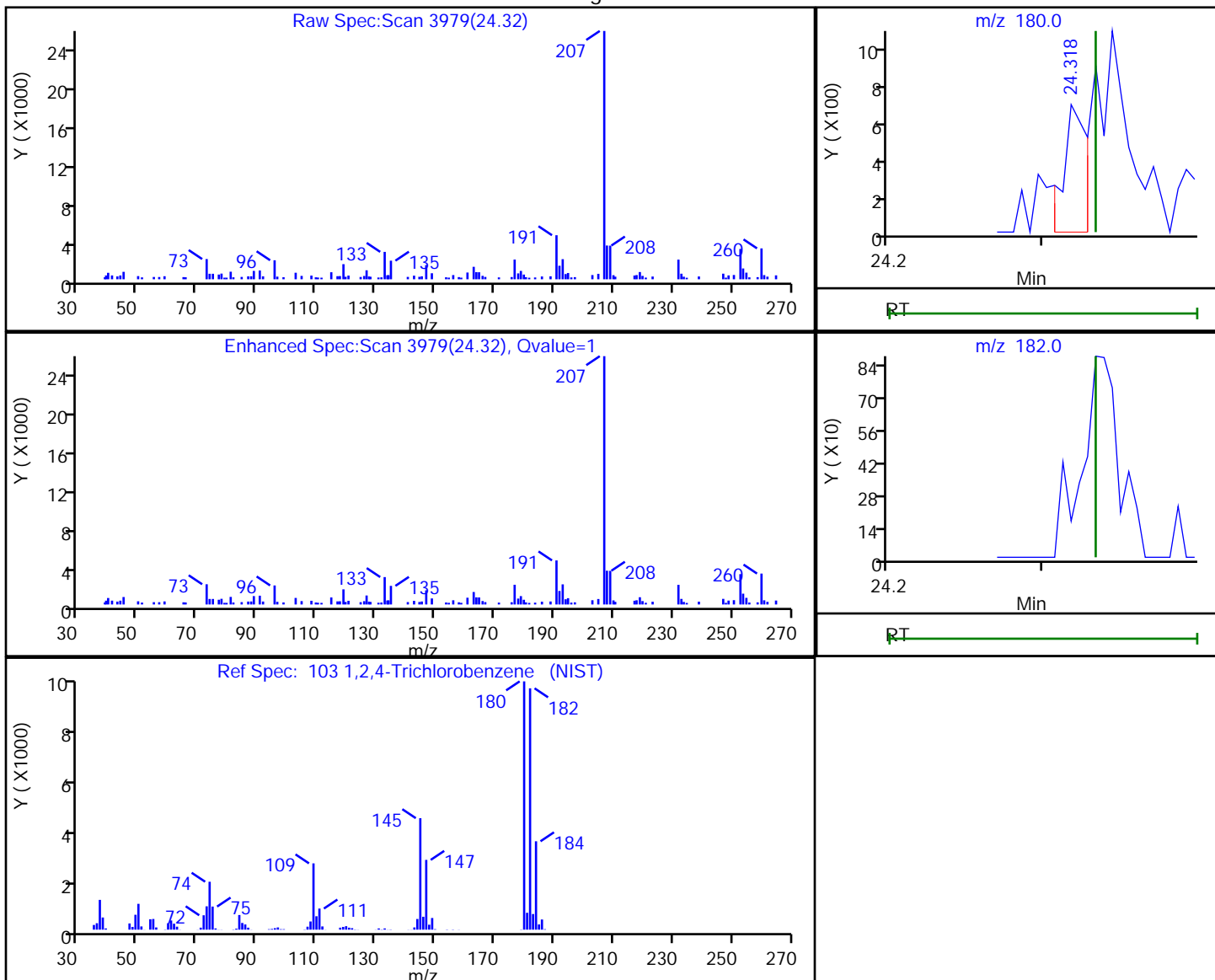
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.32 | 180.00 | 724      | 0.006088 |
| 24.33 | 182.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:48

Audit Action: Marked Compound Undetected

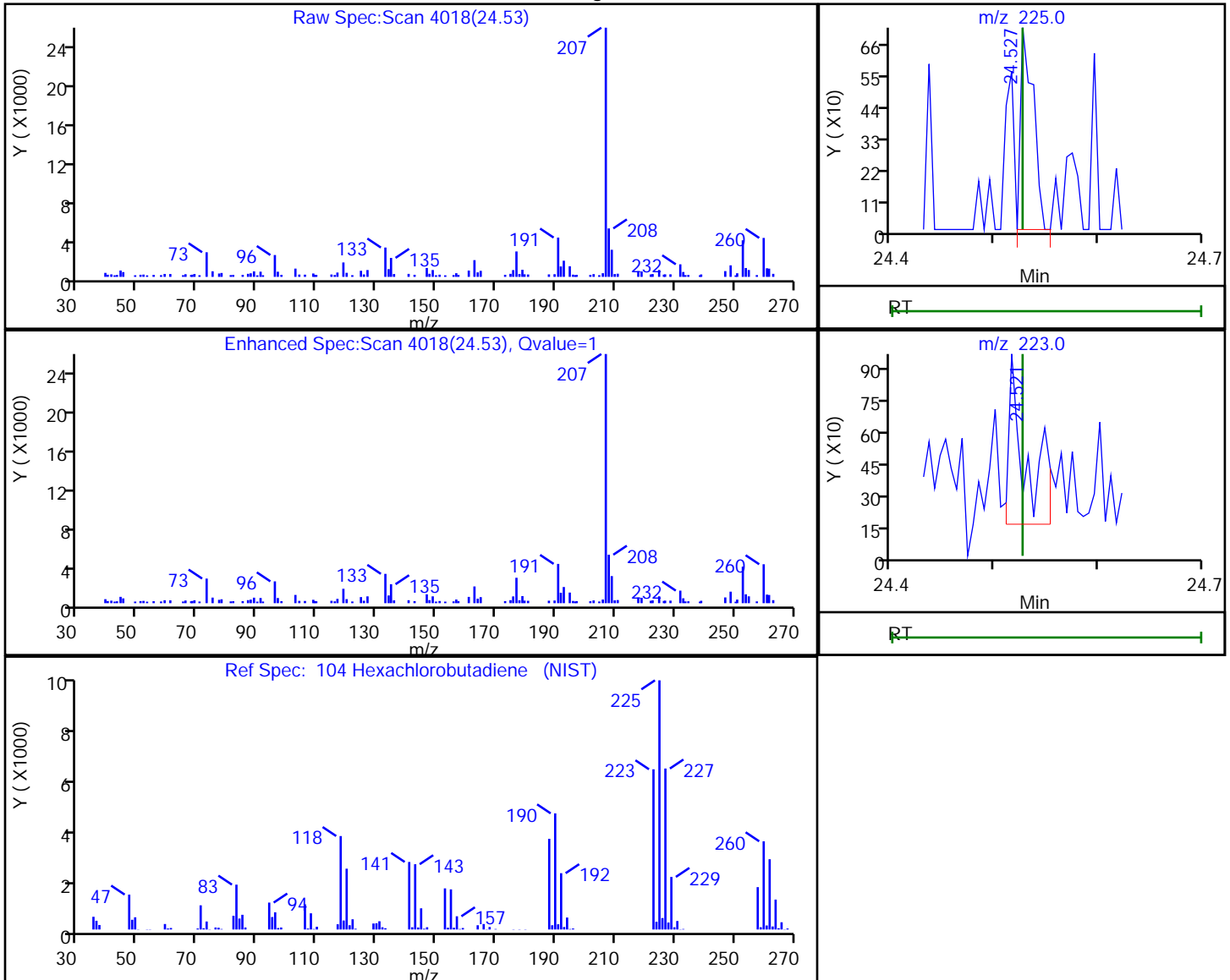
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
 Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
 Client ID: IA-5\_20181120  
 Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 4.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 608      | 0.005140 |
| 24.52 | 223.00 | 929      |          |

Reviewer: puangmaleek, 07-Dec-2018 16:35:49

Audit Action: Marked Compound Undetected

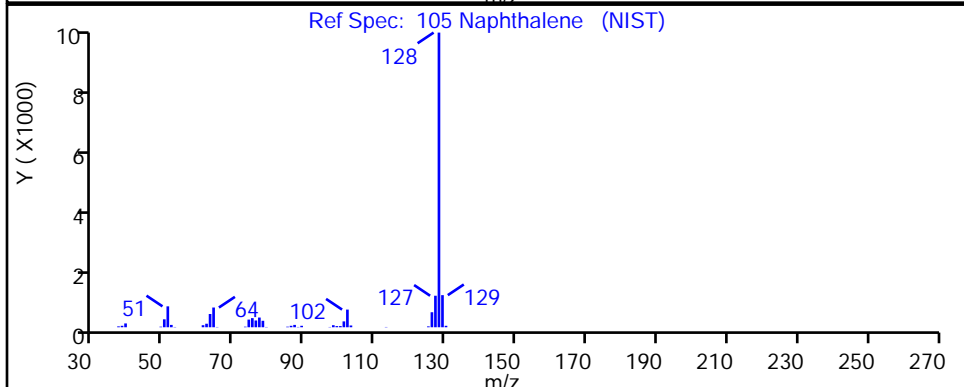
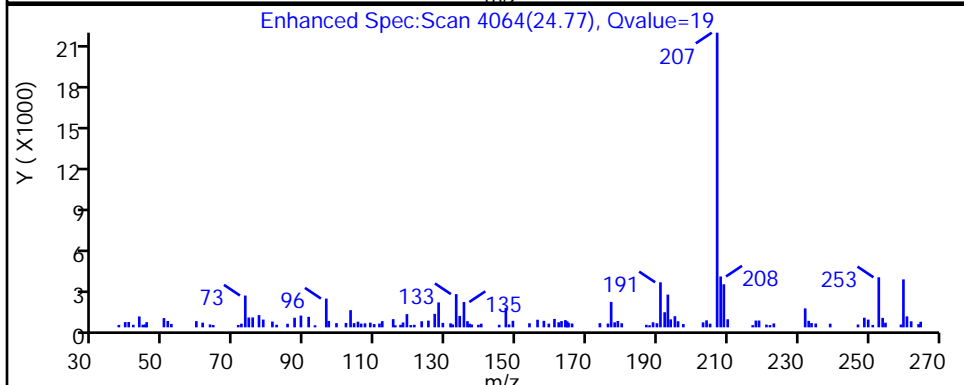
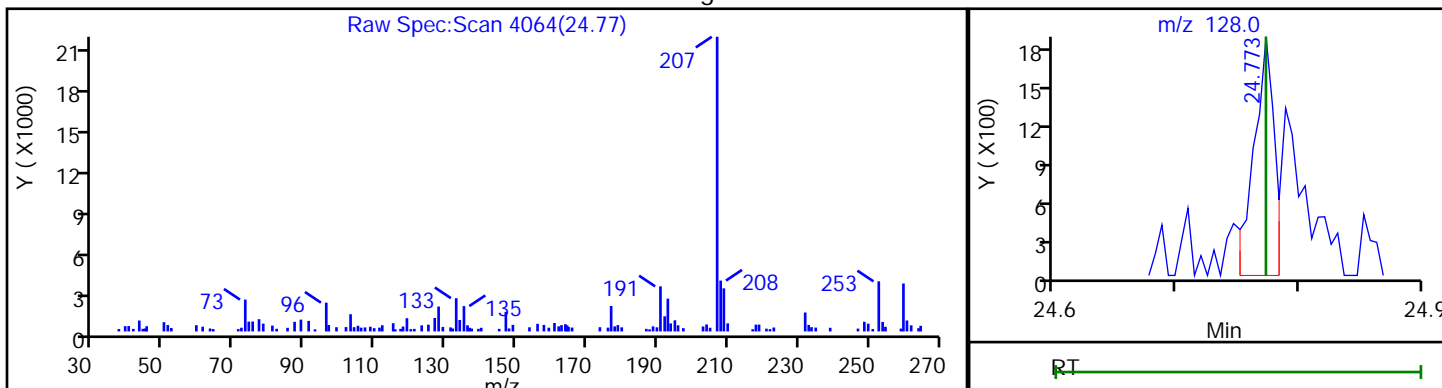
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-011.D  
Injection Date: 06-Dec-2018 22:33:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-6 Lab Sample ID: 200-46353-6  
Client ID: IA-5\_20181120  
Operator ID: ert ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 4.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.77 | 128.00 | 2145     | 0.009304 |

Reviewer: puangmaleek, 07-Dec-2018 16:14:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 25     | U | 25  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 25     | U | 25  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 10     | U | 10  |
| 74-87-3   | Chloromethane                    | 50.49            | 25     | U | 25  |
| 106-97-8  | n-Butane                         | 58.12            | 25     | U | 25  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 3.9    | U | 3.9 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 10     | U | 10  |
| 74-83-9   | Bromomethane                     | 94.94            | 10     | U | 10  |
| 75-00-3   | Chloroethane                     | 64.52            | 25     | U | 25  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 10     | U | 10  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 10     | U | 10  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 10     | U | 10  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 1.8    | U | 1.8 |
| 67-64-1   | Acetone                          | 58.08            | 250    | U | 250 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 250    | U | 250 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 25     | U | 25  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 25     | U | 25  |
| 75-09-2   | Methylene Chloride               | 84.93            | 25     | U | 25  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 250    | U | 250 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 10     | U | 10  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 10     | U | 10  |
| 110-54-3  | n-Hexane                         | 86.17            | 10     | U | 10  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 10     | U | 10  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 25     | U | 25  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 2.5    | U | 2.5 |
| 67-66-3   | Chloroform                       | 119.38           | 62     |   | 10  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 250    | U | 250 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 10     | U | 10  |
| 110-82-7  | Cyclohexane                      | 84.16            | 10     | U | 10  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 1.8    | U | 1.8 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 10     | U | 10  |
| 71-43-2   | Benzene                          | 78.11            | 10     | U | 10  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 10     | U | 10  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 10     | U | 10  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 1.8    | U | 1.8 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 25     | U | 25  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 10     | U | 10  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 250    | U | 250 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 10     | U | 10  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 10     | U | 10  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 25     | U | 25  |
| 108-88-3    | Toluene  | 92.14            | 10     | U | 10  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 10     | U | 10  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 10     | U | 10  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 10     | U | 10  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 25     | U | 25  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 10     | U | 10  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 10     | U | 10  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 10     | U | 10  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 10     | U | 10  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 25     | U | 25  |
| 95-47-6     | o-Xylene   | 106.17           | 10     | U | 10  |
| 100-42-5    | Styrene  | 104.15           | 10     | U | 10  |
| 75-25-2     | Bromoform  | 252.75           | 10     | U | 10  |
| 98-82-8     | Cumene   | 120.19           | 10     | U | 10  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 10     | U | 10  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 10     | U | 10  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 10     | U | 10  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 10     | U | 10  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 10     | U | 10  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 10     | U | 10  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 10     | U | 10  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 10     | U | 10  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 10     | U | 10  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 10     | U | 10  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 10     | U | 10  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL |  |
|----------|------------------------|------------------|--------|---|----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 10     | U | 10 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 10     | U | 10 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 10     | U | 10 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 25     | U | 25 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 10     | U | 10 |  |
| 91-20-3  | Naphthalene            | 128.17           | 25     | U | 25 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 120    | U | 120 |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 88     | U | 88  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 70     | U | 70  |
| 74-87-3   | Chloromethane                    | 50.49            | 52     | U | 52  |
| 106-97-8  | n-Butane                         | 58.12            | 59     | U | 59  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 10     | U | 10  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 22     | U | 22  |
| 74-83-9   | Bromomethane                     | 94.94            | 39     | U | 39  |
| 75-00-3   | Chloroethane                     | 64.52            | 66     | U | 66  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 44     | U | 44  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 56     | U | 56  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 77     | U | 77  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 7.0    | U | 7.0 |
| 67-64-1   | Acetone                          | 58.08            | 590    | U | 590 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 610    | U | 610 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 78     | U | 78  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 78     | U | 78  |
| 75-09-2   | Methylene Chloride               | 84.93            | 87     | U | 87  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 760    | U | 760 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 36     | U | 36  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 40     | U | 40  |
| 110-54-3  | n-Hexane                         | 86.17            | 35     | U | 35  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 40     | U | 40  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 74     | U | 74  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 10     | U | 10  |
| 67-66-3   | Chloroform                       | 119.38           | 300    |   | 49  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 740    | U | 740 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 55     | U | 55  |
| 110-82-7  | Cyclohexane                      | 84.16            | 34     | U | 34  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 11     | U | 11  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 47     | U | 47  |
| 71-43-2   | Benzene                          | 78.11            | 32     | U | 32  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 40     | U | 40  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 41     | U | 41  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 9.4    | U | 9.4 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 100    | U | 100 |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 46     | U | 46  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 900    | U | 900 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 67     | U | 67  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 45     | U | 45  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 100    | U | 100 |
| 108-88-3    | Toluene  | 92.14            | 38     | U | 38  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 45     | U | 45  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 55     | U | 55  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 68     | U | 68  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 100    | U | 100 |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 85     | U | 85  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 77     | U | 77  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 46     | U | 46  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 43     | U | 43  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 110    | U | 110 |
| 95-47-6     | o-Xylene   | 106.17           | 43     | U | 43  |
| 100-42-5    | Styrene  | 104.15           | 43     | U | 43  |
| 75-25-2     | Bromoform  | 252.75           | 100    | U | 100 |
| 98-82-8     | Cumene   | 120.19           | 49     | U | 49  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 69     | U | 69  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 49     | U | 49  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 49     | U | 49  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 49     | U | 49  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 52     | U | 52  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 55     | U | 55  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 49     | U | 49  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 55     | U | 55  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 55     | U | 55  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 60     | U | 60  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 60     | U | 60  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 52     | U | 52  |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 55     | U | 55  |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 60     | U | 60  |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 190    | U | 190 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 110    | U | 110 |  |
| 91-20-3  | Naphthalene            | 128.17           | 130    | U | 130 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Lims ID: 200-46353-A-7  
 Client ID: MP-1\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 08:32:30 ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Sample Info: 200-0033531-023  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:31:27 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: tobere

Date: 06-Dec-2018 10:32:24

| Compound                      | Sig | RT (min.) | Adj RT (min.) | DI RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|--------------|----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  |           | 3.155         |              |    |          | ND                |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |              |    |          | ND                | MU    |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |              |    |          | ND                | U     |
| 5 Chloromethane               | 50  |           | 3.465         |              |    |          | ND                | U     |
| 6 Butane                      | 43  |           | 3.604         |              |    |          | ND                | MU    |
| 7 Vinyl chloride              | 62  |           | 3.647         |              |    |          | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |              |    |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |              |    |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |              |    |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |              |    |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 |           | 4.760         |              |    |          | ND                | U     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.605         |              |    |          | ND                | U     |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |              |    |          | ND                | U     |
| 22 Acetone                    | 43  | 5.877     | 5.853         | 0.021        | 99 | 124904   | 2.53              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.001         | 0.000        | 81 | 3045     | 0.0204            |       |
| 24 Isopropyl alcohol          | 45  |           | 6.097         |              |    |          | ND                | Ua    |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |              |    |          | ND                | U     |
| 27 Methylene Chloride         | 49  |           | 6.557         |              |    |          | ND                | U     |
| 28 2-Methyl-2-propanol        | 59  | 6.814     | 6.767         | 0.043        | 88 | 7204     | 0.0865            |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |              |    |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |              |    |          | ND                | U     |
| 33 Hexane                     | 57  |           | 7.279         |              |    |          | ND                | U     |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |              |    |          | ND                |       |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |              |    |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  |           | 8.793         |              |    |          | ND                | U     |
| * 40 Chlorobromomethane       | 128 | 9.146     | 9.152         | -0.006       | 75 | 633540   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |              |    |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.269     | 9.275         | 0.000        | 95 | 164301   | 1.24              |       |
| 43 Cyclohexane                | 84  | 9.515     | 9.515         | -0.016       | 58 | 3579     | 0.0522            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |              |    |          | ND                |       |
| 45 Carbon tetrachloride       | 117 |           | 9.783         |              |    |          | ND                |       |
| 46 Isooctane                  | 57  |           | 10.195        |              |    |          | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  |           | 10.216        |               |    |          | ND                | MU    |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.559        | -0.006        | 91 | 14803    | 0.1808            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2988260  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.559        | 0.010         | 1  | 4736     | 0.0293            | M     |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                | U     |
| 65 Toluene                     | 92  | 14.062    | 14.068        | -0.006        | 93 | 10357    | 0.0913            | M     |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 15.143        |               |    |          | ND                |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                | U     |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 84 | 2799162  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  |           | 17.182        |               |    |          | ND                | U     |
| 78 m-Xylene & p-Xylene         | 106 |           | 17.433        |               |    |          | ND                | MU    |
| 79 o-Xylene                    | 106 |           | 18.294        |               |    |          | ND                | U     |
| 80 Styrene                     | 104 |           | 18.337        |               |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.049        |               |    |          | ND                | MU    |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.846        |               |    |          | ND                | MU    |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.054        |               |    |          | ND                | Ua    |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.167        | 0.000         | 49 | 9118     | 0.0366            | M     |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.792        | 0.000         | 55 | 13186    | 0.0536            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | MU    |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.418        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |               |    |          | ND                | U     |



### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D

Injection Date: 06-Dec-2018 08:32:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-7

Lab Sample ID: 200-46353-7

Worklist Smp#: 23

Client ID: MP-1\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 50.0000

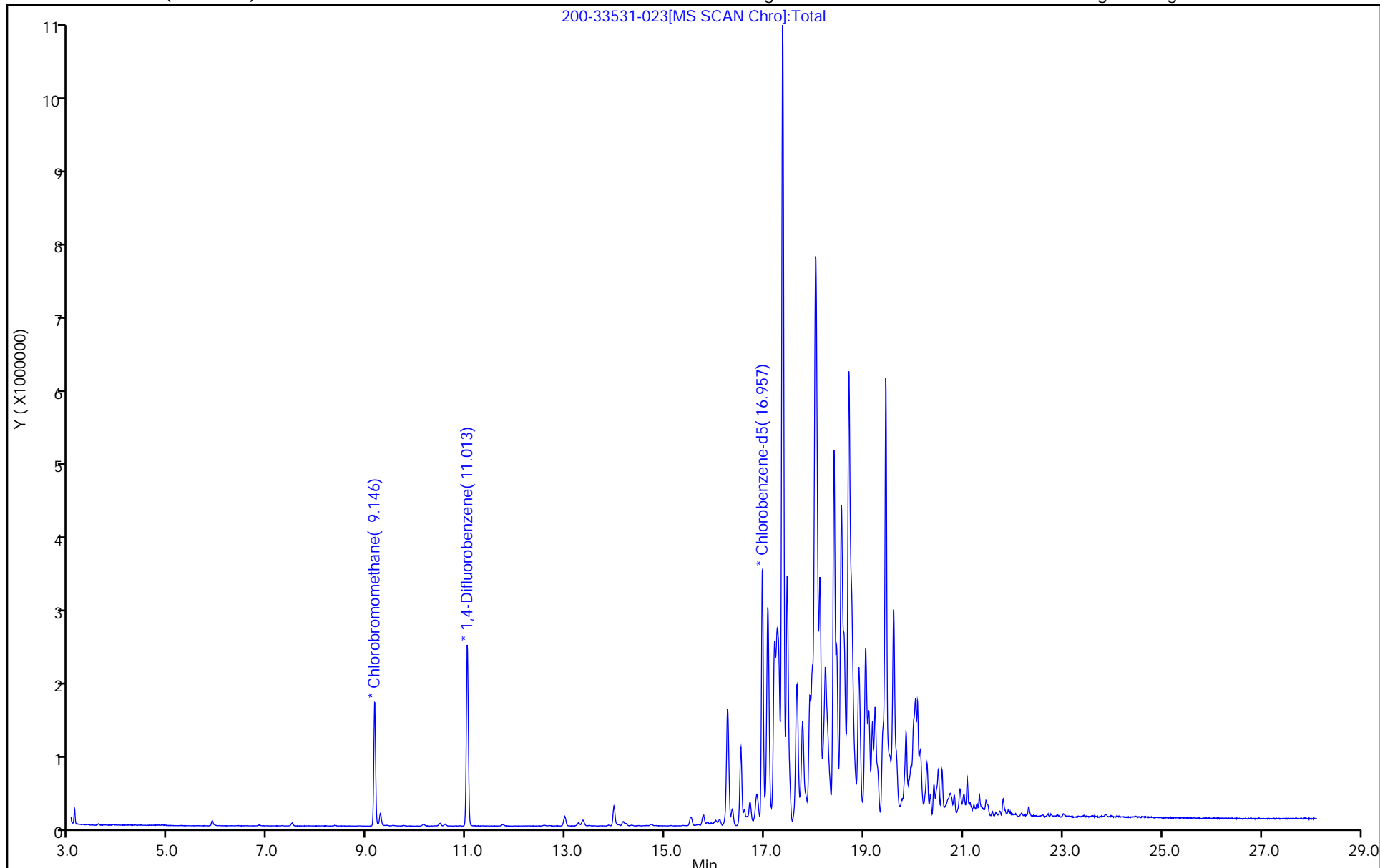
ALS Bottle#: 23

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D

Injection Date: 06-Dec-2018 08:32:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-7

Lab Sample ID: 200-46353-7

Client ID: MP-1\_20181120

Operator ID: ert

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 200.000 mL

Dil. Factor: 50.0000

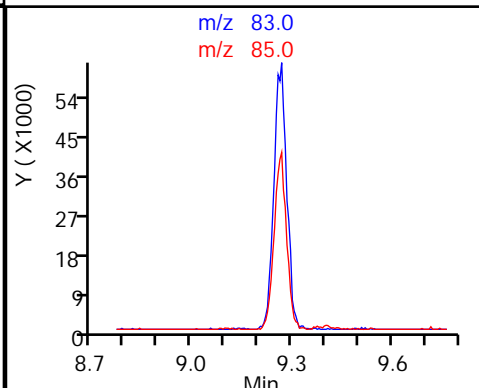
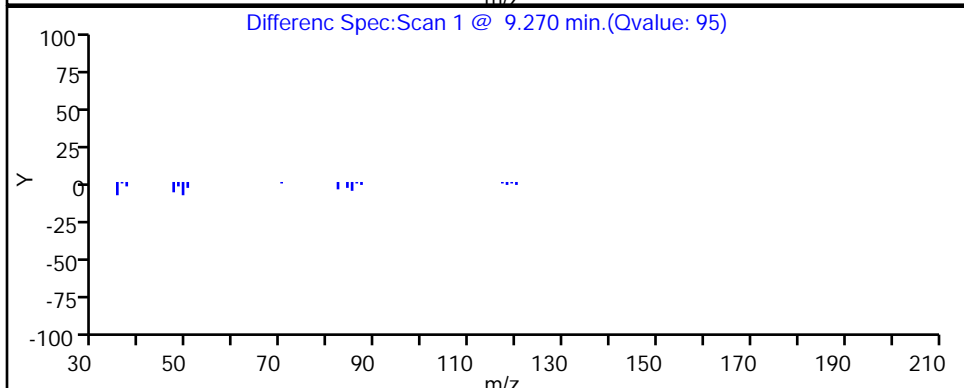
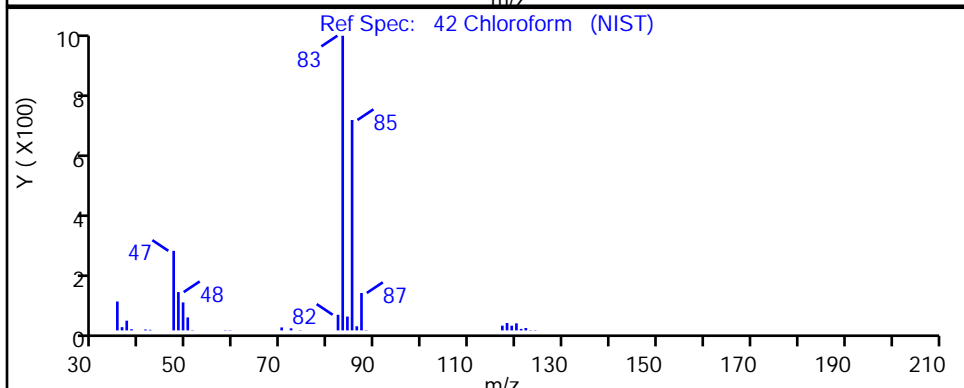
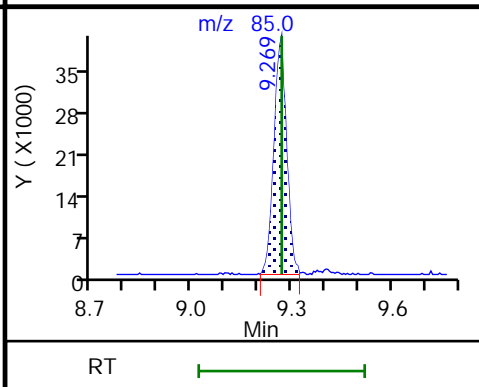
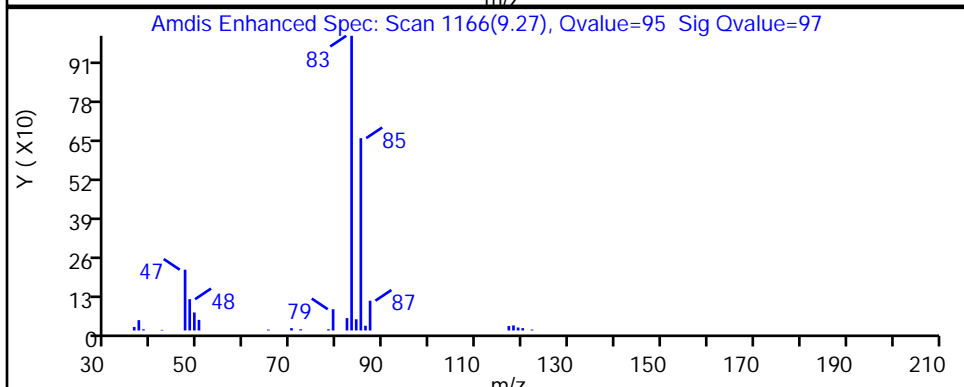
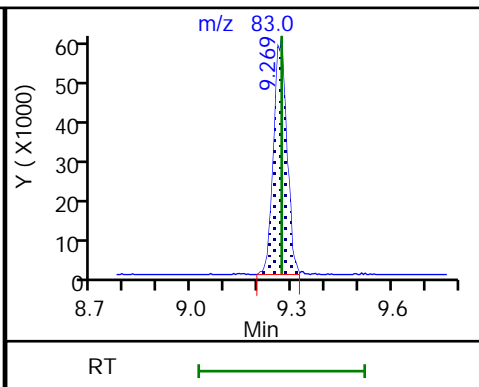
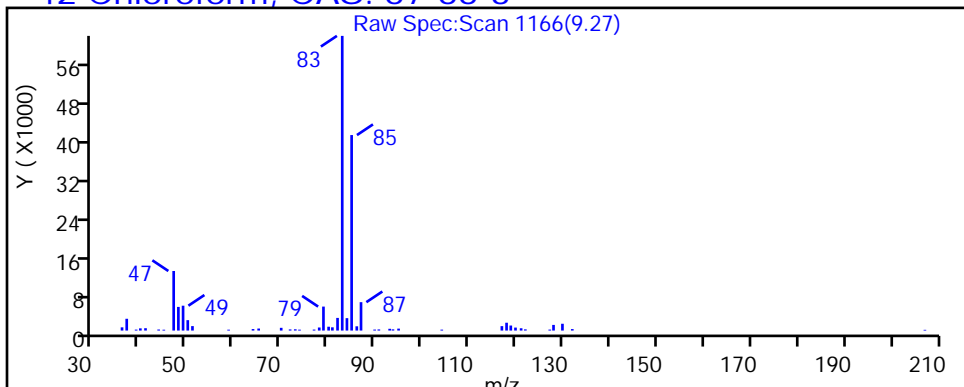
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

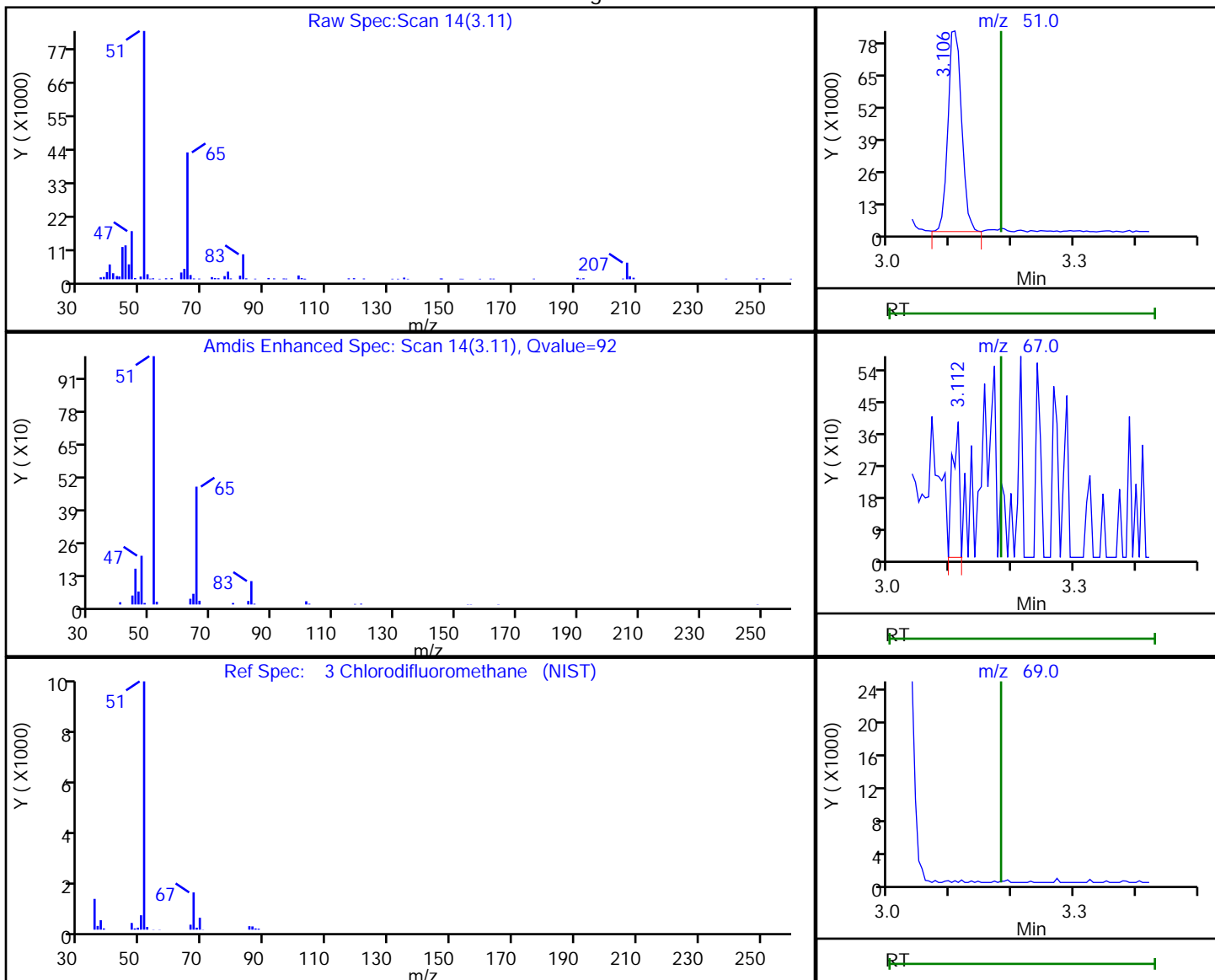


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.11 | 51.00 | 126547   | 1.257715 |
| 3.11 | 67.00 | 302      |          |
| 3.18 | 69.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:25:38

Audit Action: Marked Compound Undetected

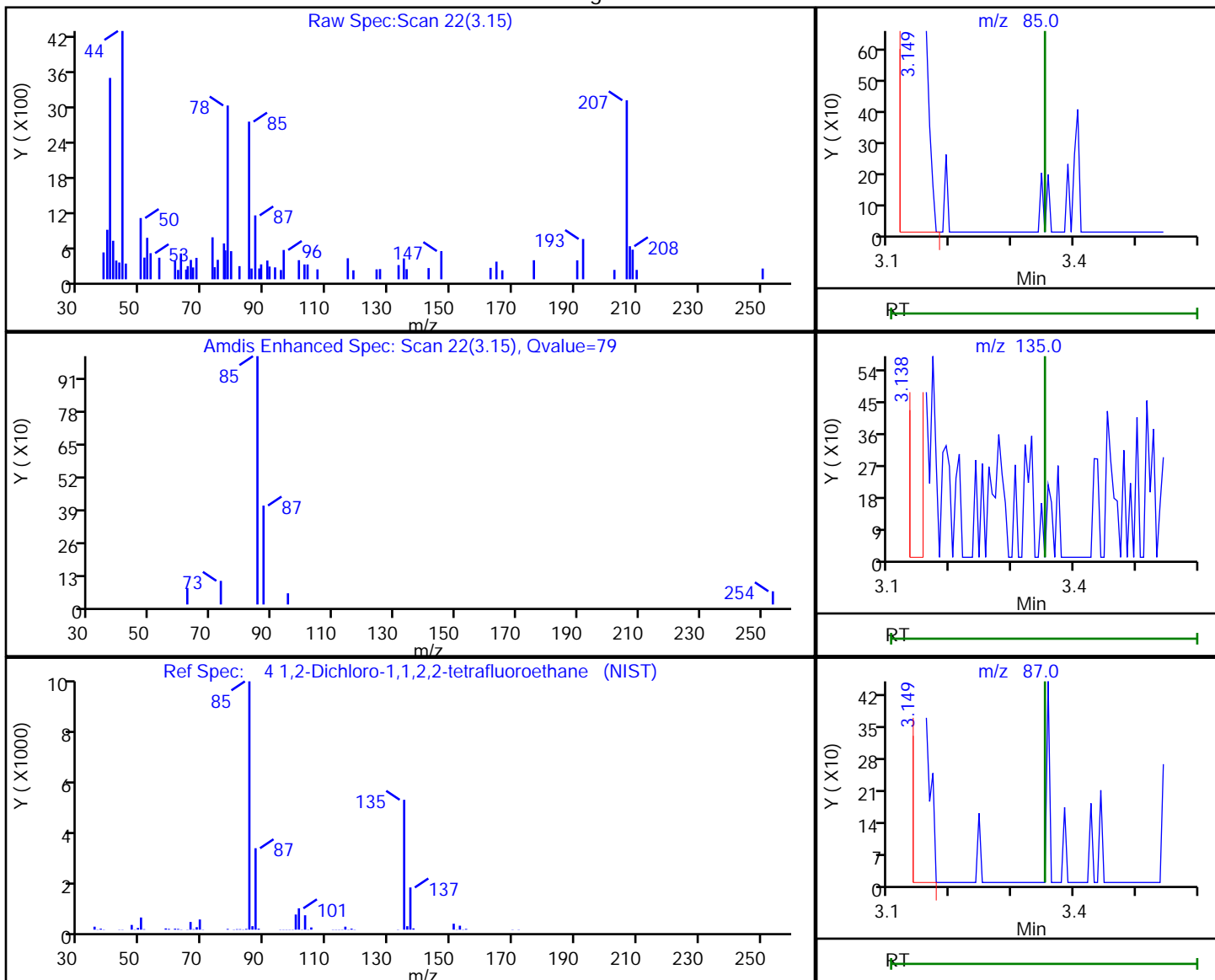
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.15 | 85.00  | 3547     | 0.019941 |
| 3.14 | 135.00 | 515      |          |
| 3.15 | 87.00  | 1338     |          |

Reviewer: bunmaa, 07-Dec-2018 09:25:41

Audit Action: Marked Compound Undetected

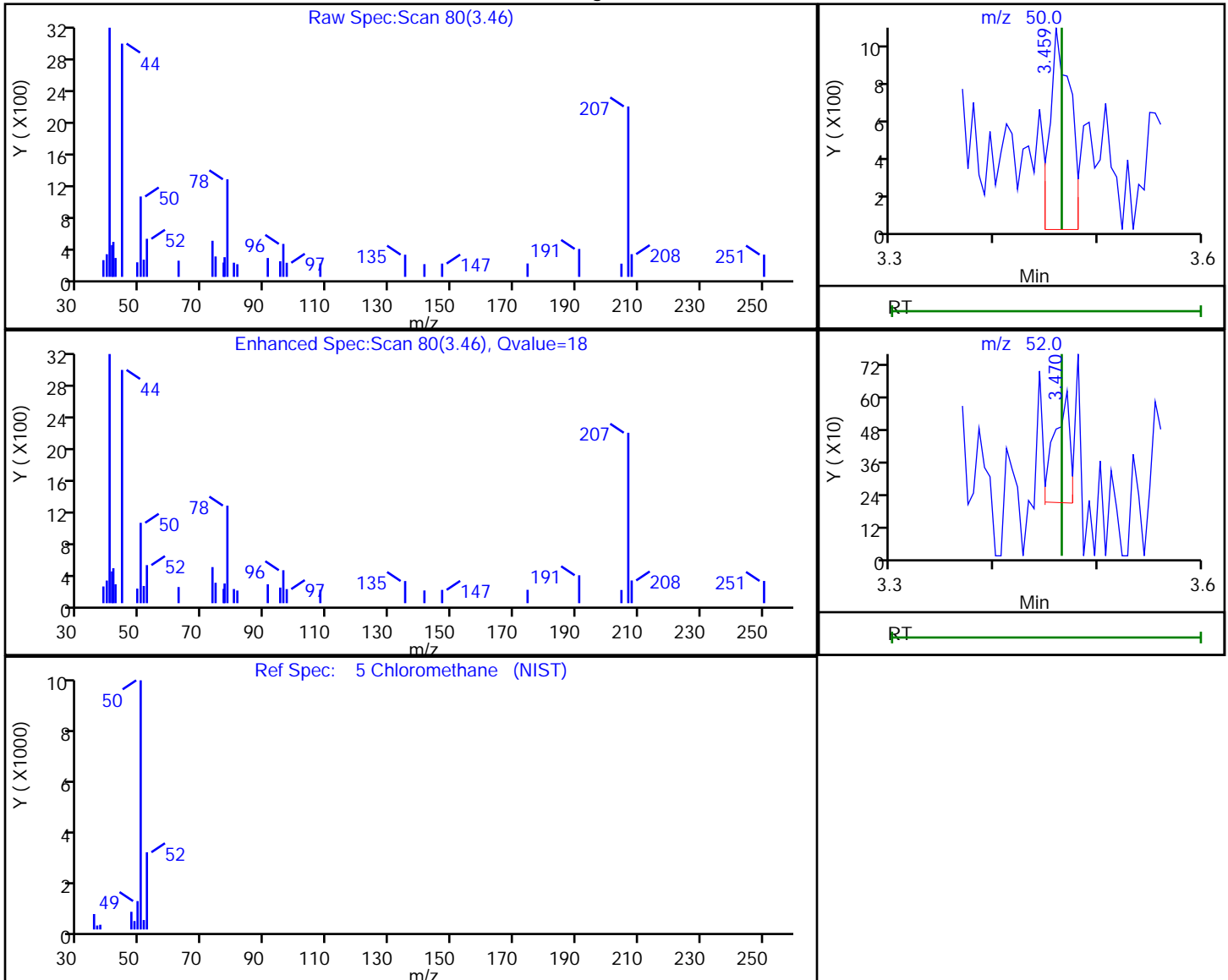
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.46 | 50.00 | 1389     | 0.030201 |
| 3.47 | 52.00 | 438      |          |

Reviewer: guazonig, 06-Dec-2018 13:38:48

Audit Action: Marked Compound Undetected

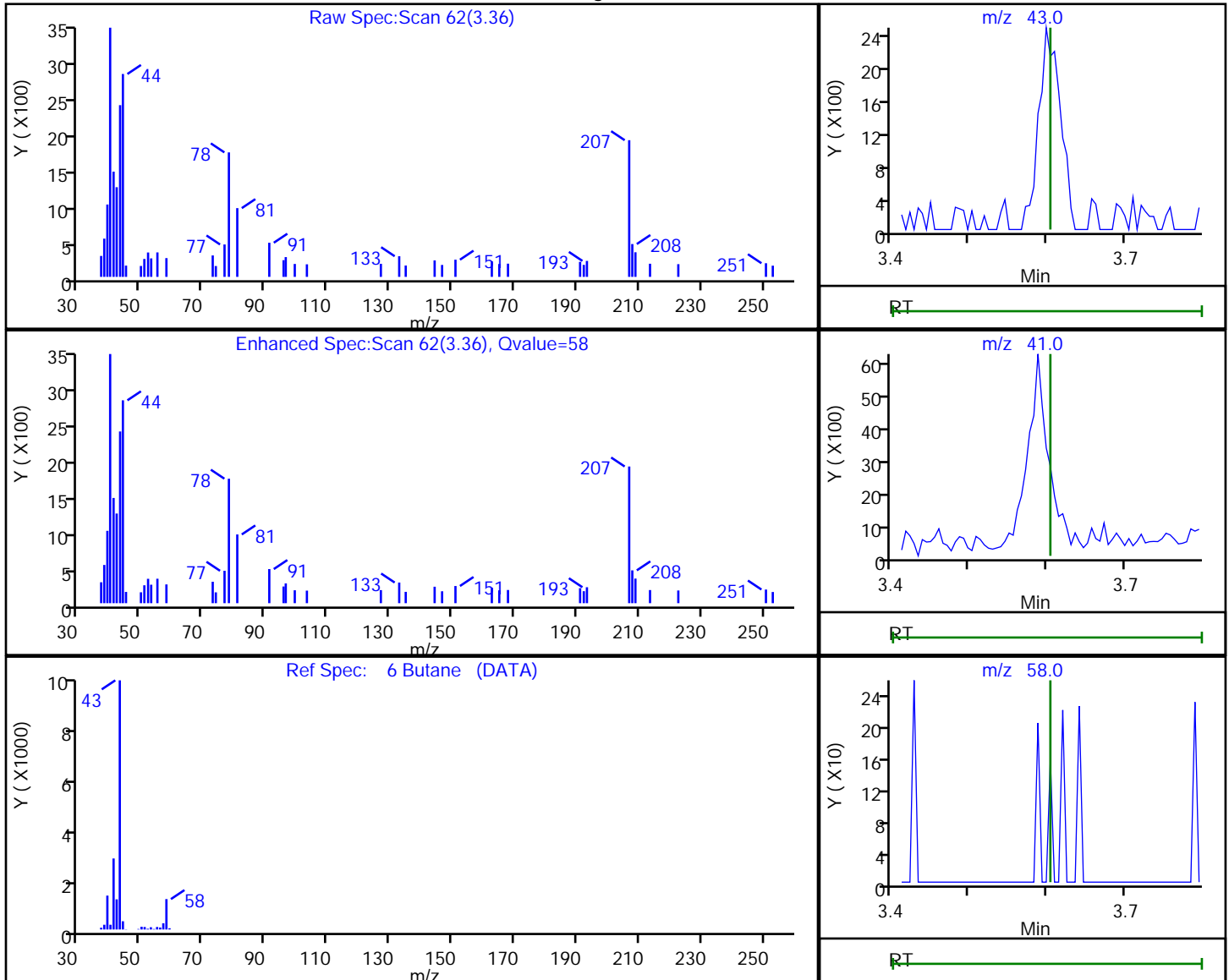
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.36 | 43.00 | 4466     | 0.072139 |
| 3.37 | 41.00 | 2670     |          |
| 3.60 | 58.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:25:51  
 Audit Action: Marked Compound Undetected

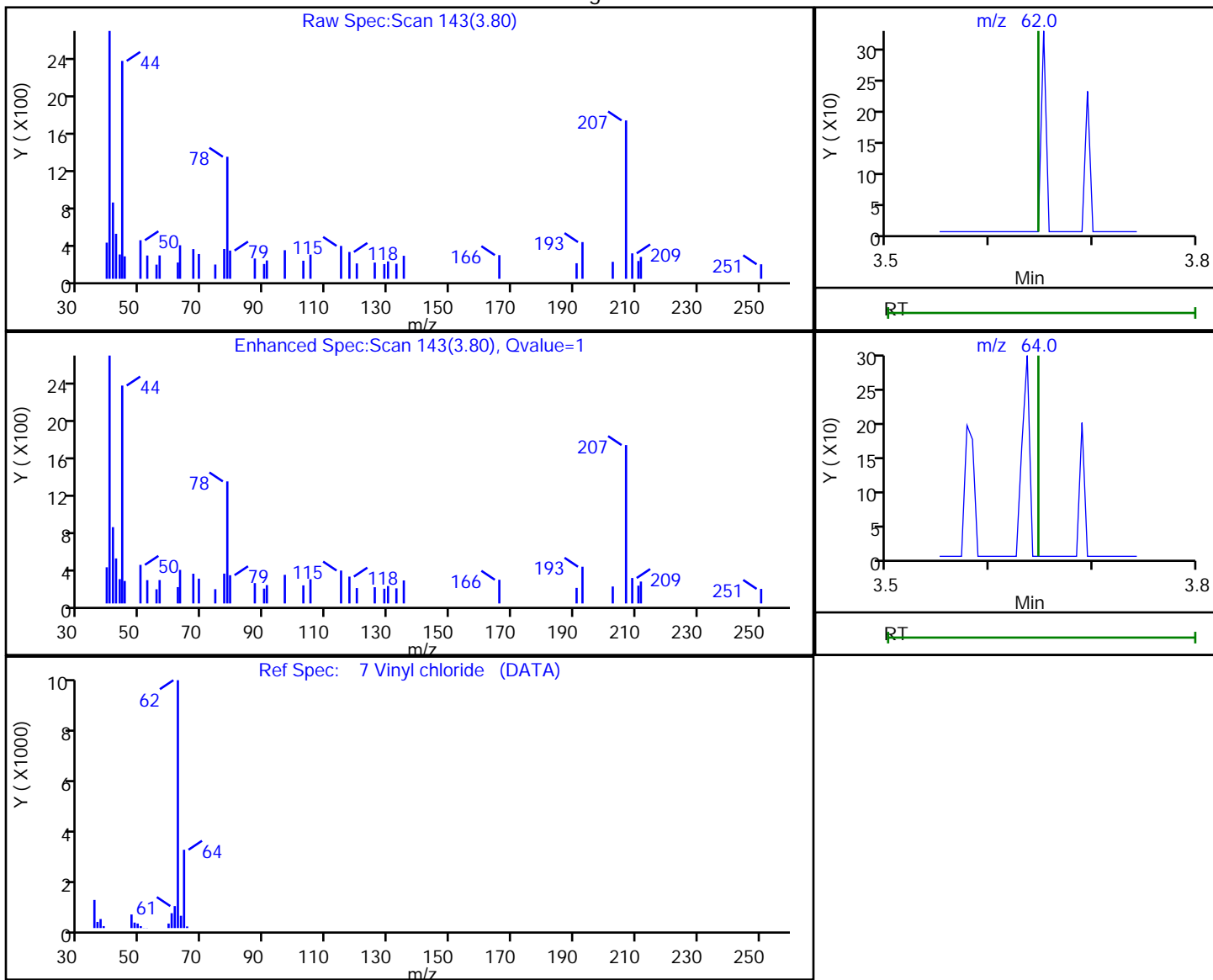
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
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 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.80 | 62.00 | 109      | 0.001969 |
| 3.65 | 64.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:39:06  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

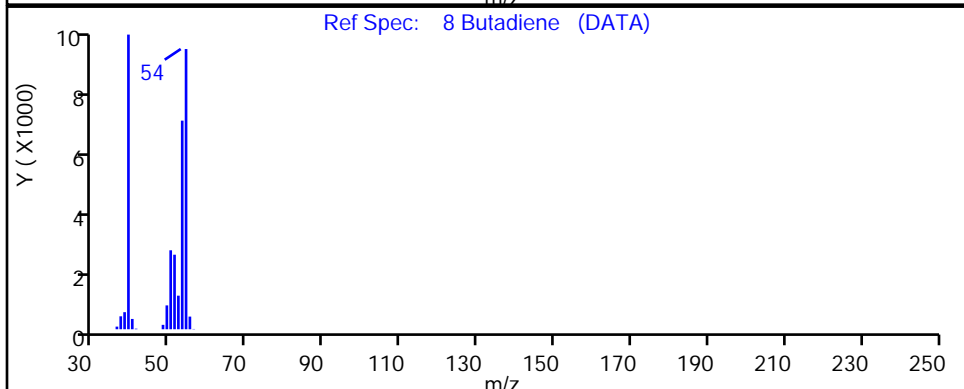
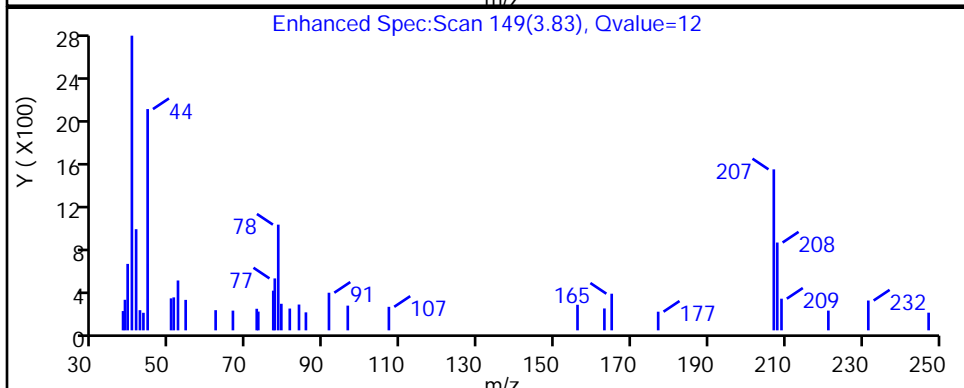
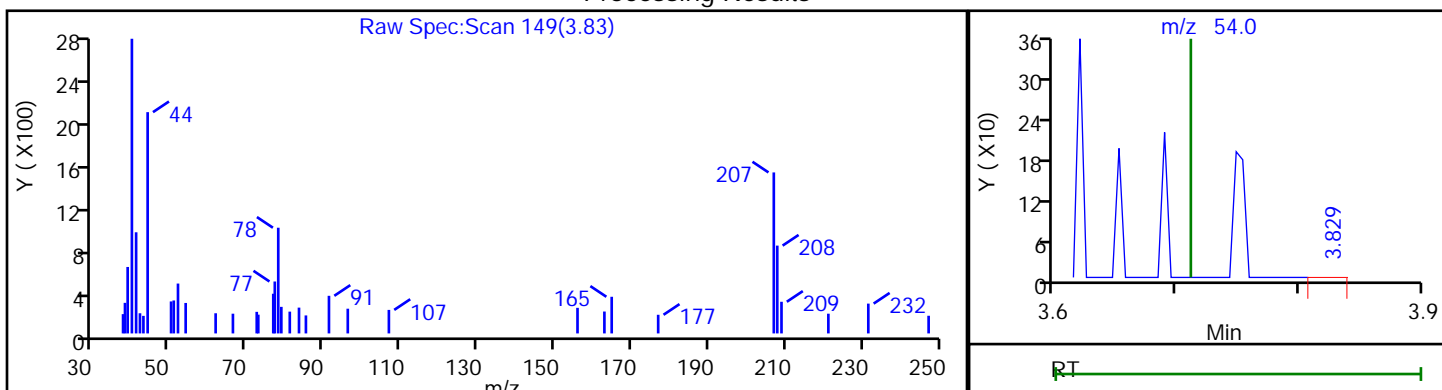


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.83 | 54.00 | 277      | 0.008042 |

Reviewer: bunmaa, 07-Dec-2018 09:25:55

Audit Action: Marked Compound Undetected

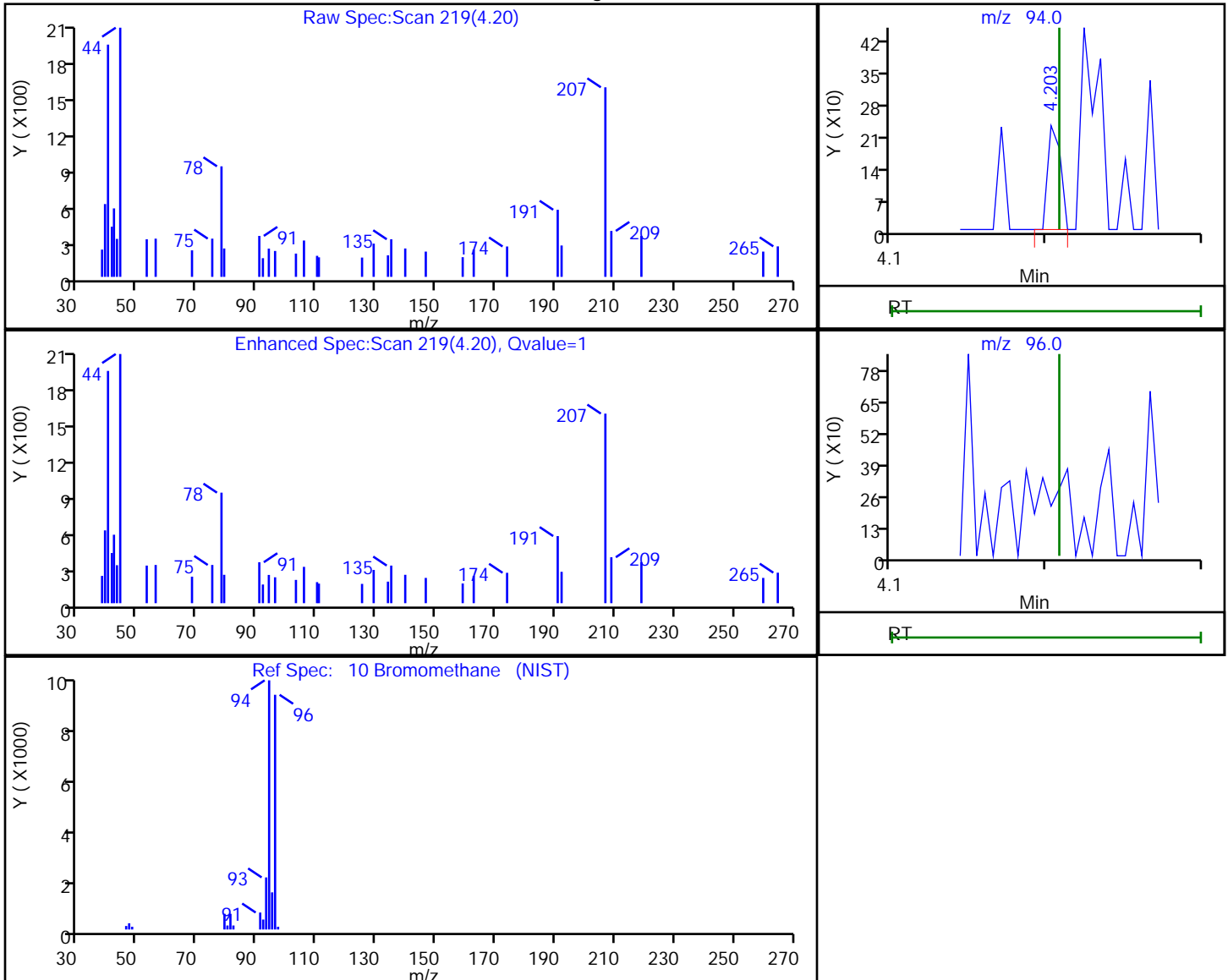
Audit Reason: Invalid Compound ID

TestAmerica Burlington

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Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.20 | 94.00 | 130      | 0.002034 |
| 4.21 | 96.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:25:58

Audit Action: Marked Compound Undetected

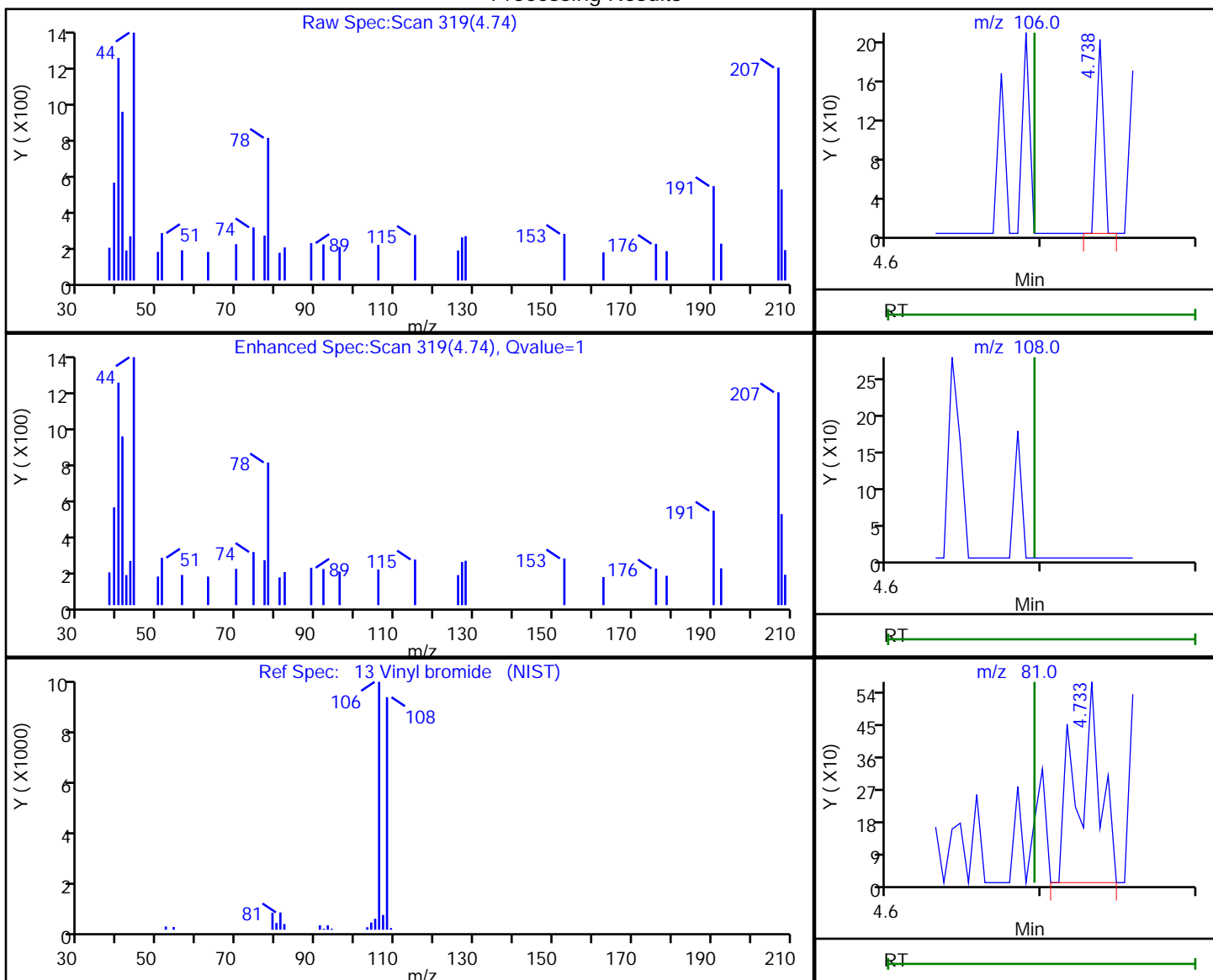
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.74 | 106.00 | 64       | 0.001013 |
| 4.70 | 108.00 | 0        |          |
| 4.73 | 81.00  | 594      |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:02  
 Audit Action: Marked Compound Undetected

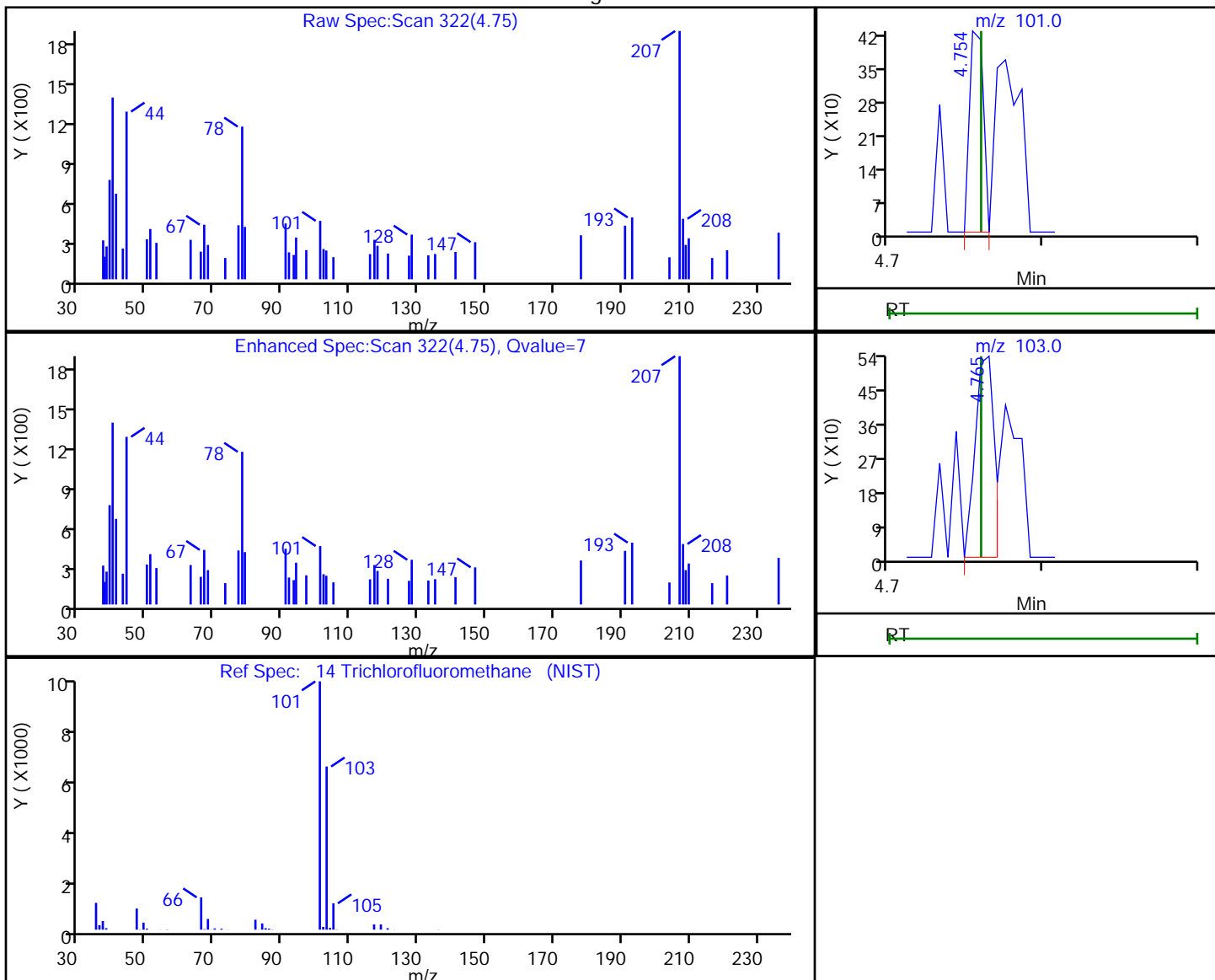
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.75 | 101.00 | 266      | 0.001424 |
| 4.76 | 103.00 | 468      |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:05

Audit Action: Marked Compound Undetected

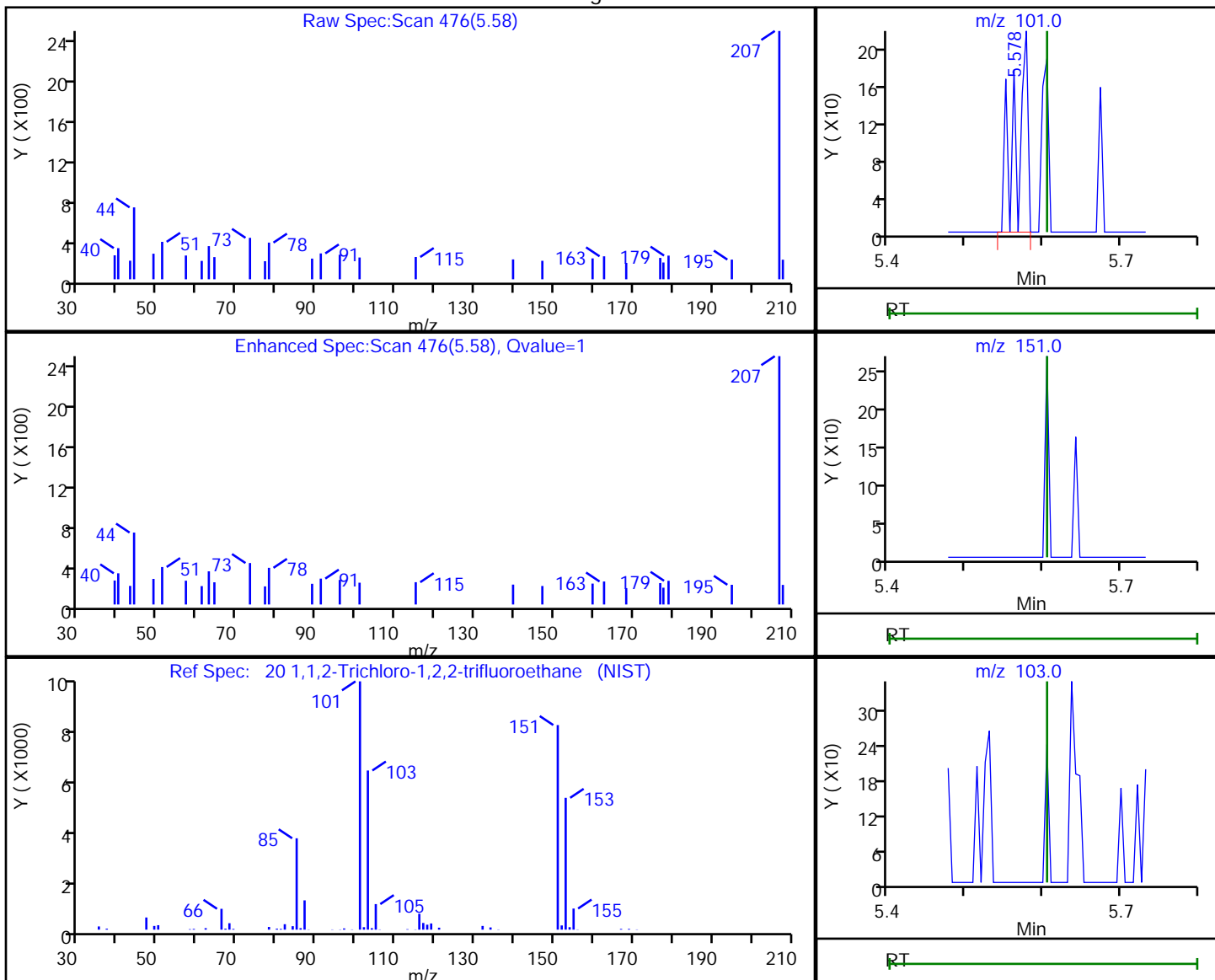
Audit Reason: Invalid Compound ID

TestAmerica Burlington

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 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 5.58 | 101.00 | 228      | 0.001733 |
| 5.60 | 151.00 | 0        |          |
| 5.60 | 103.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:07

Audit Action: Marked Compound Undetected

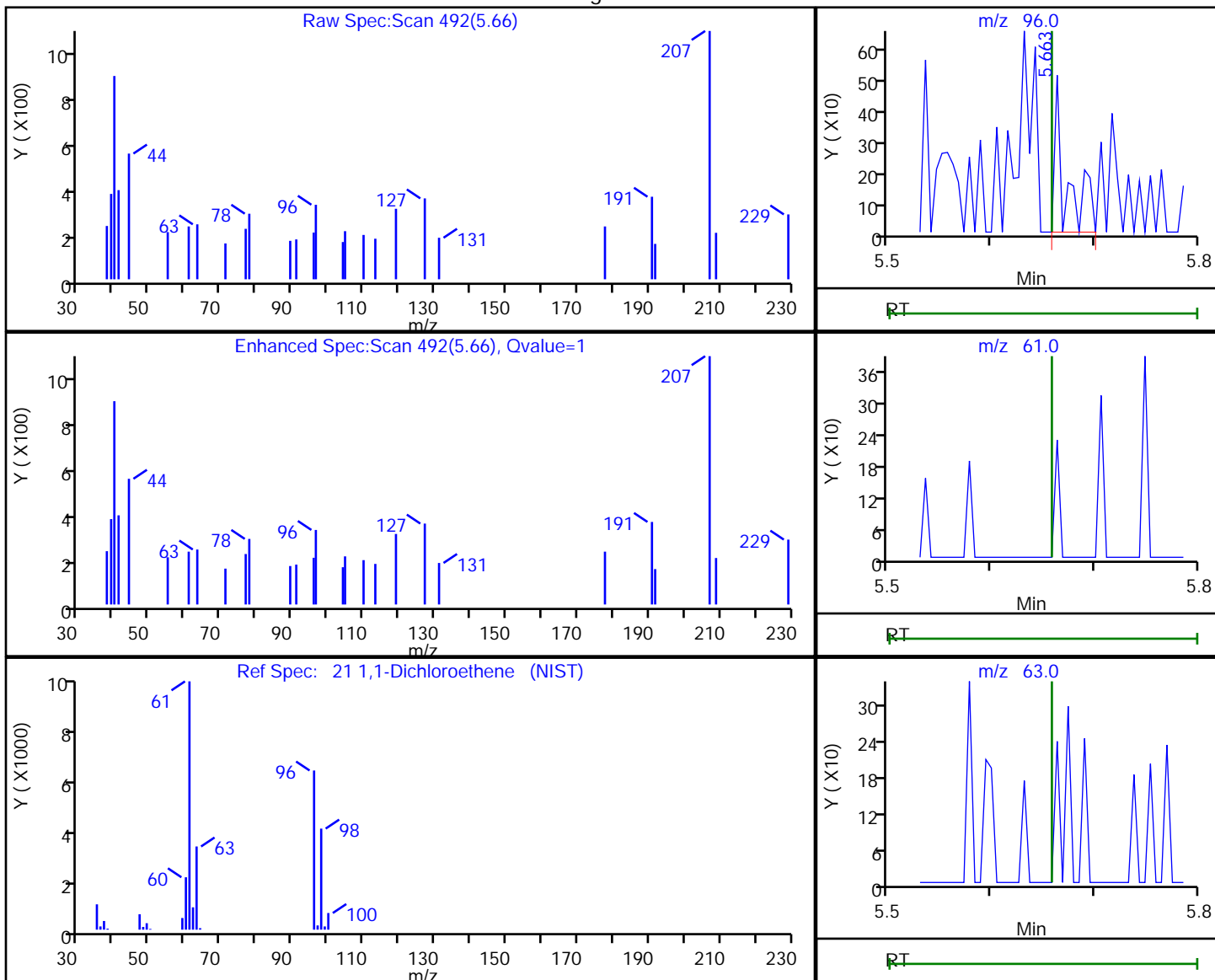
Audit Reason: Invalid Compound ID

TestAmerica Burlington

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 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.66 | 96.00 | 388      | 0.006699 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:39:10  
 Audit Action: Marked Compound Undetected

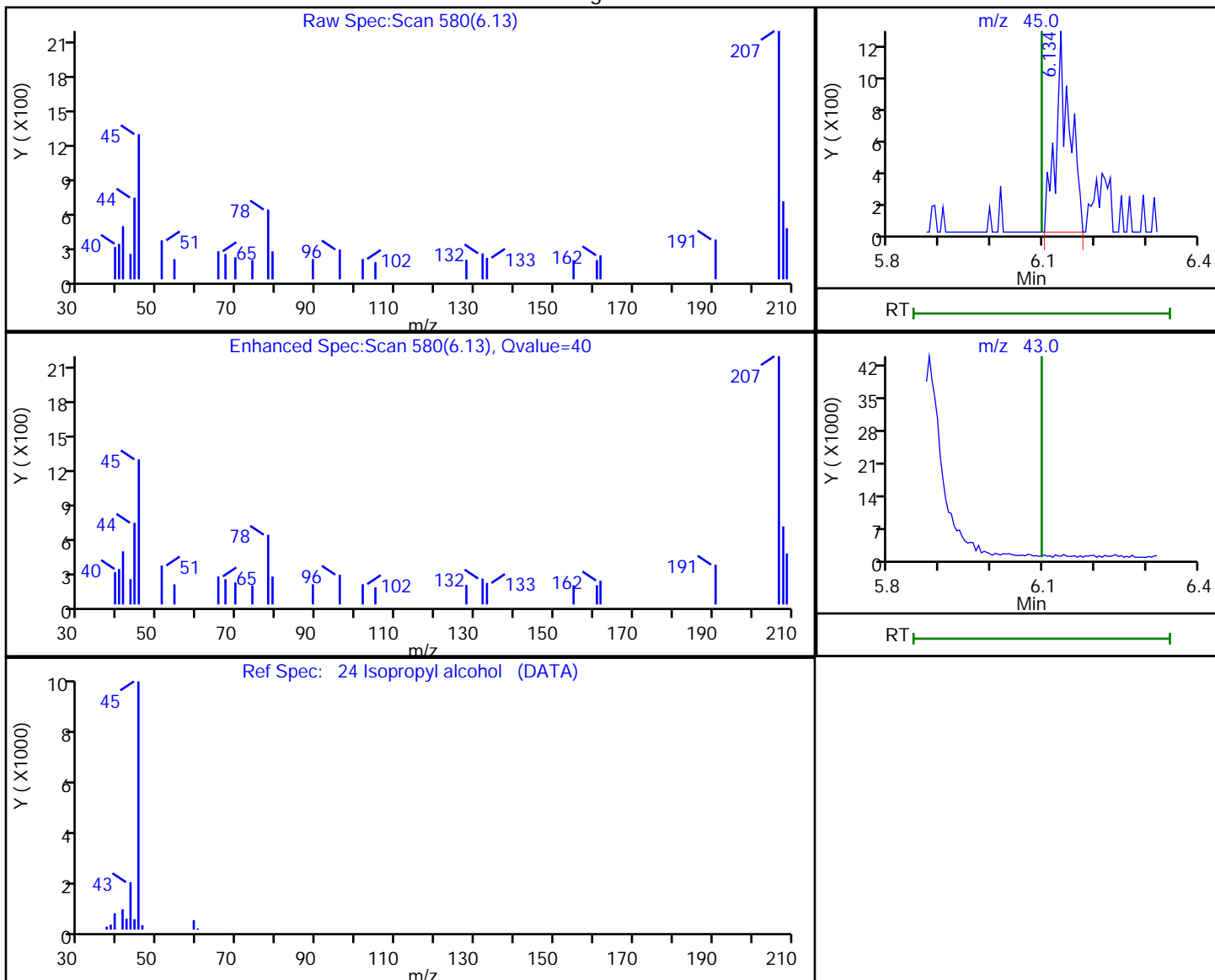
Audit Reason: Invalid Compound ID

TestAmerica Burlington

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 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.13 | 45.00 | 2426     | 0.044511 |
| 6.10 | 43.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:29

Audit Action: Marked Compound Undetected

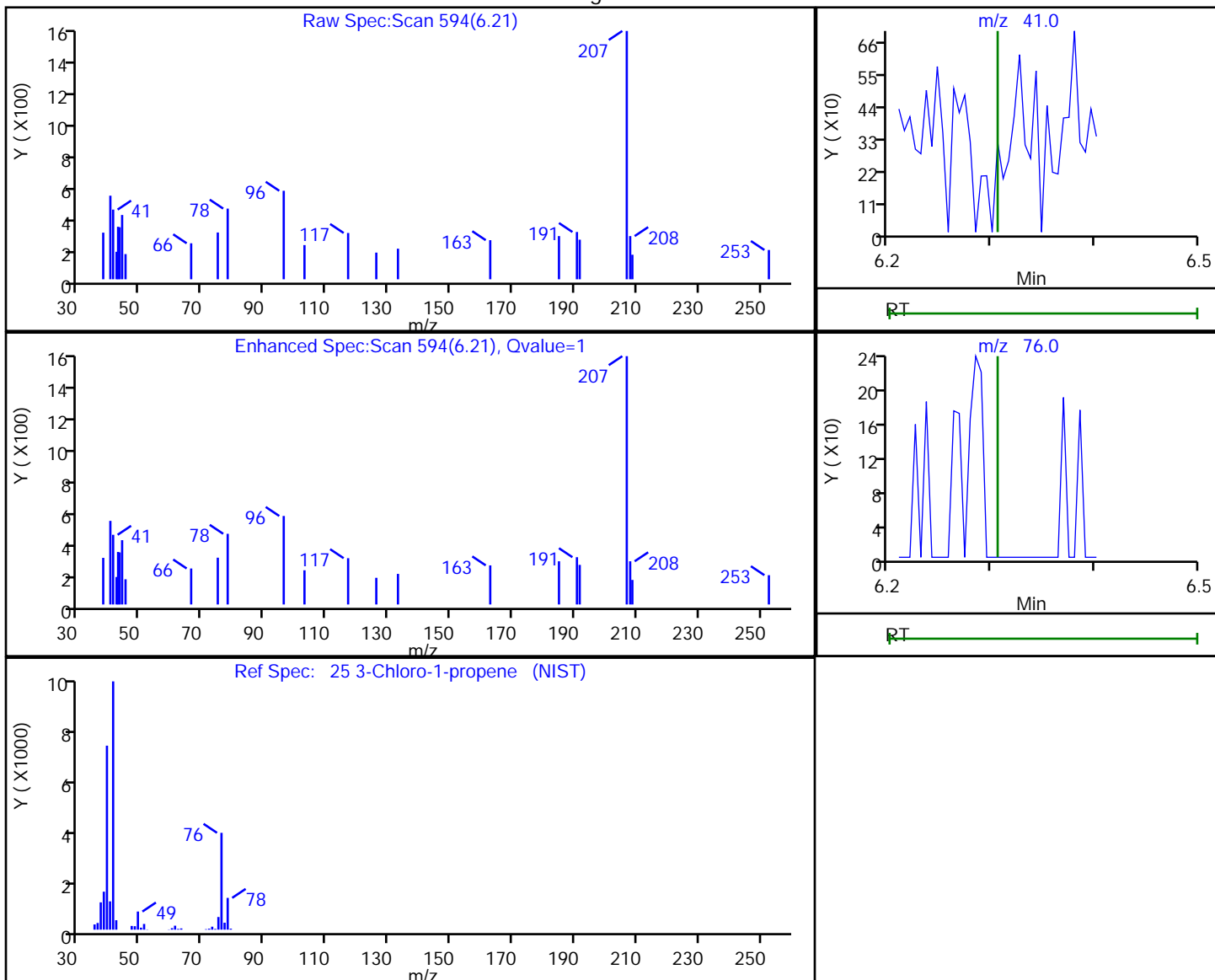
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.21 | 41.00 | 640      | 0.014853 |
| 6.31 | 76.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

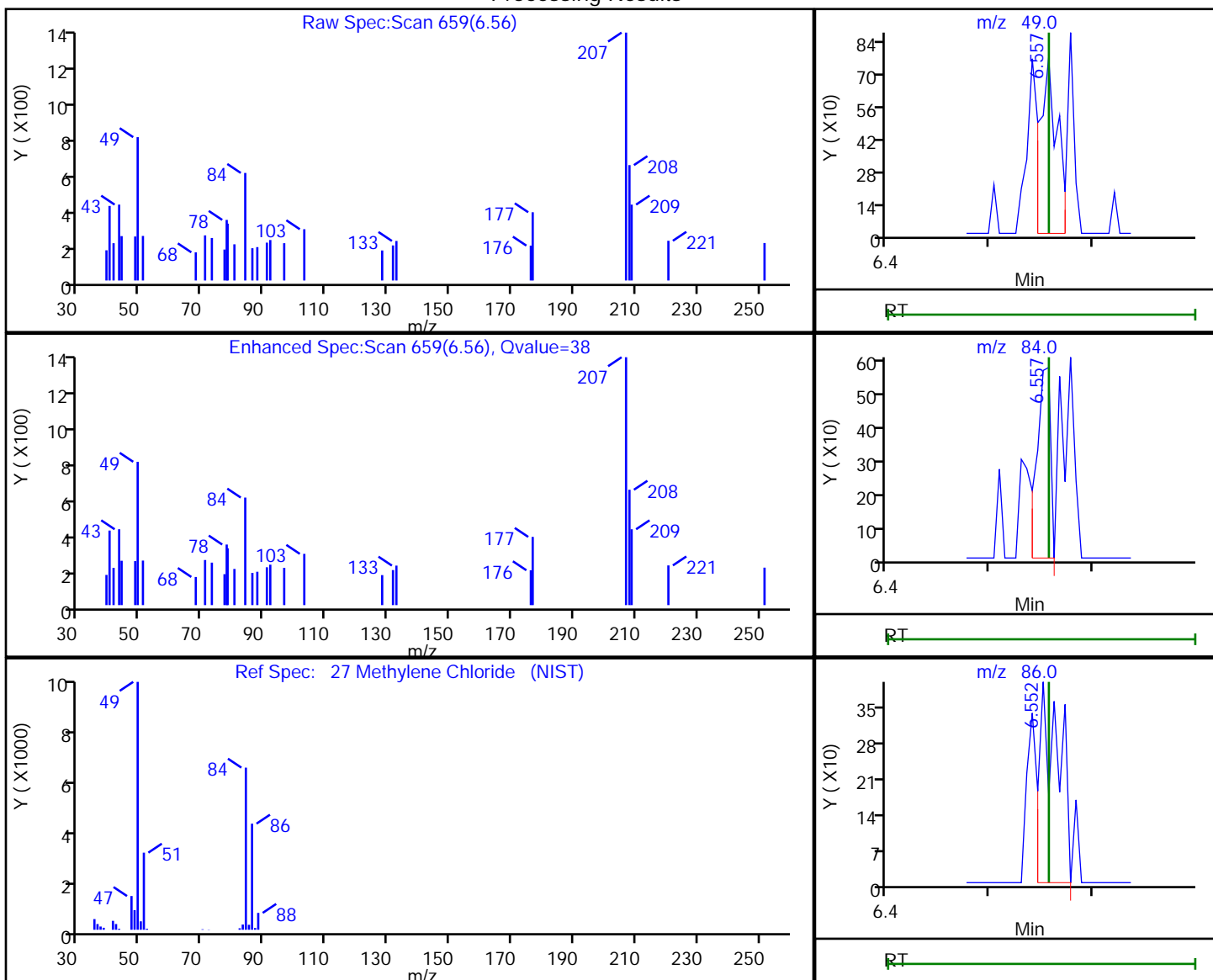


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.56 | 49.00 | 910      | 0.017411 |
| 6.56 | 84.00 | 537      |          |
| 6.55 | 86.00 | 522      |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:35  
 Audit Action: Marked Compound Undetected

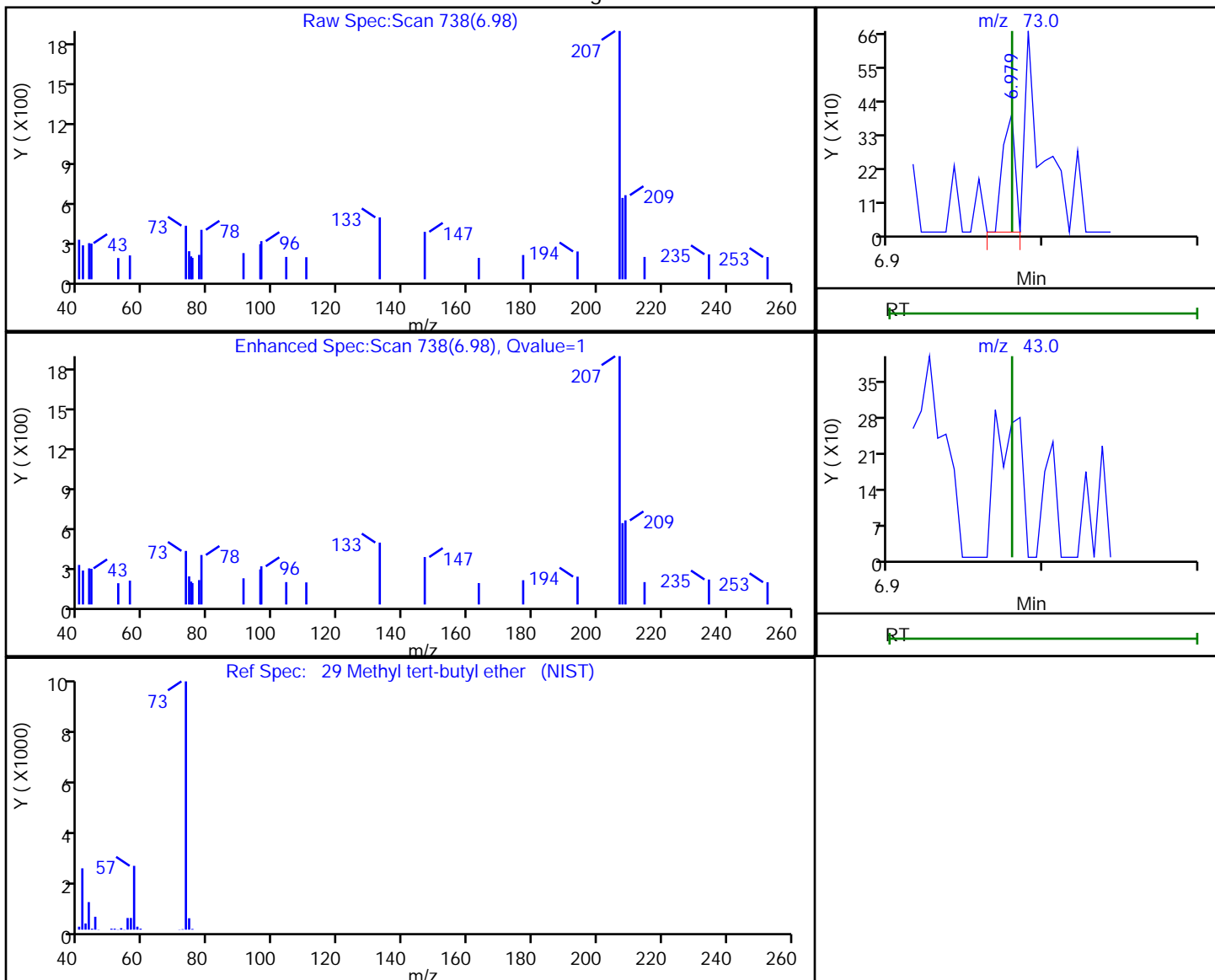
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.98 | 73.00 | 219      | 0.001945 |
| 6.98 | 43.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:42

Audit Action: Marked Compound Undetected

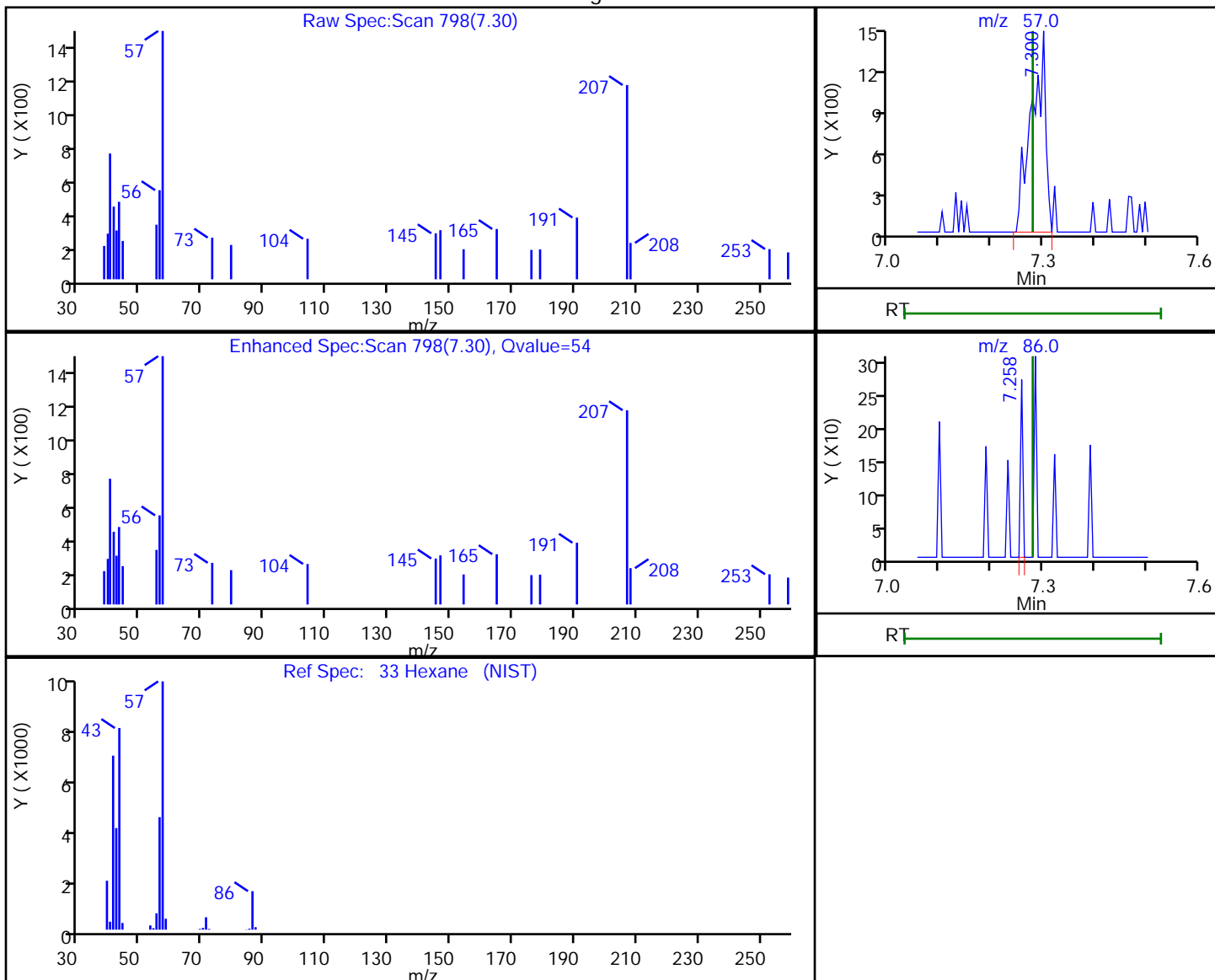
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

33 Hexane, CAS: 110-54-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.30 | 57.00 | 2859     | 0.051115 |
| 7.26 | 86.00 | 88       |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:50

Audit Action: Marked Compound Undetected

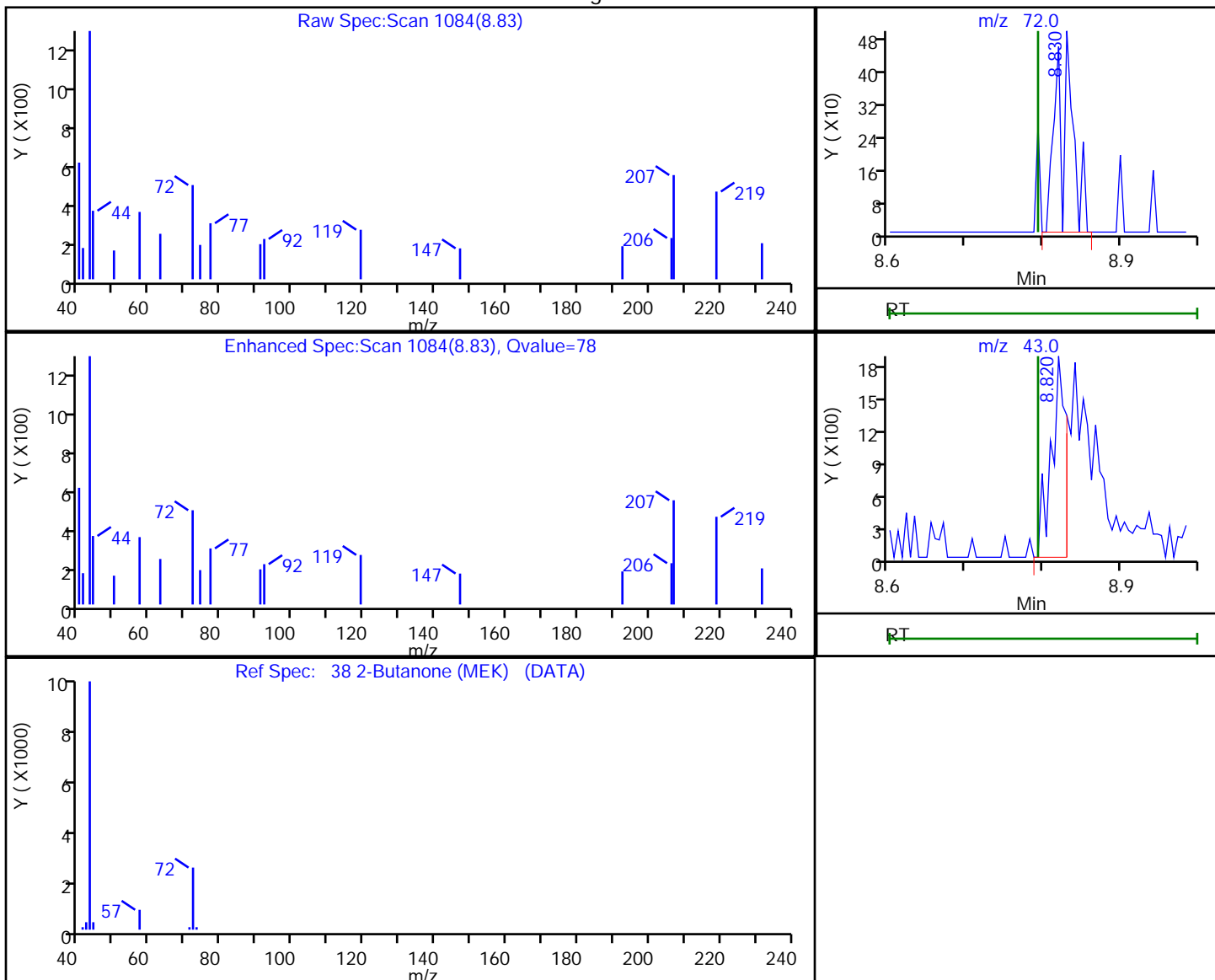
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.83 | 72.00 | 687      | 0.038816 |
| 8.82 | 43.00 | 2366     |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:57

Audit Action: Marked Compound Undetected

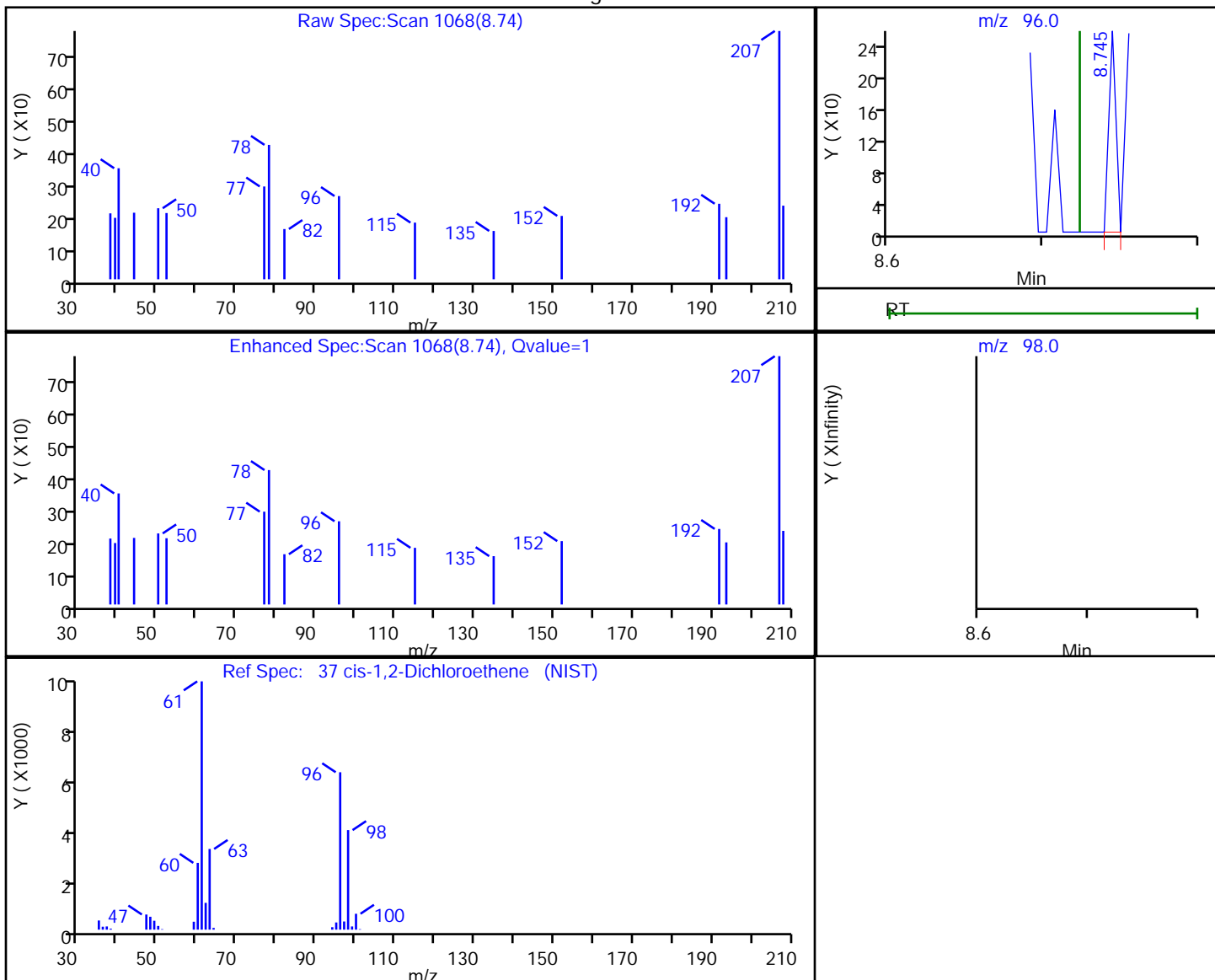
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.74 | 96.00 | 83       | 0.001513 |
| 8.72 | 98.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:54

Audit Action: Marked Compound Undetected

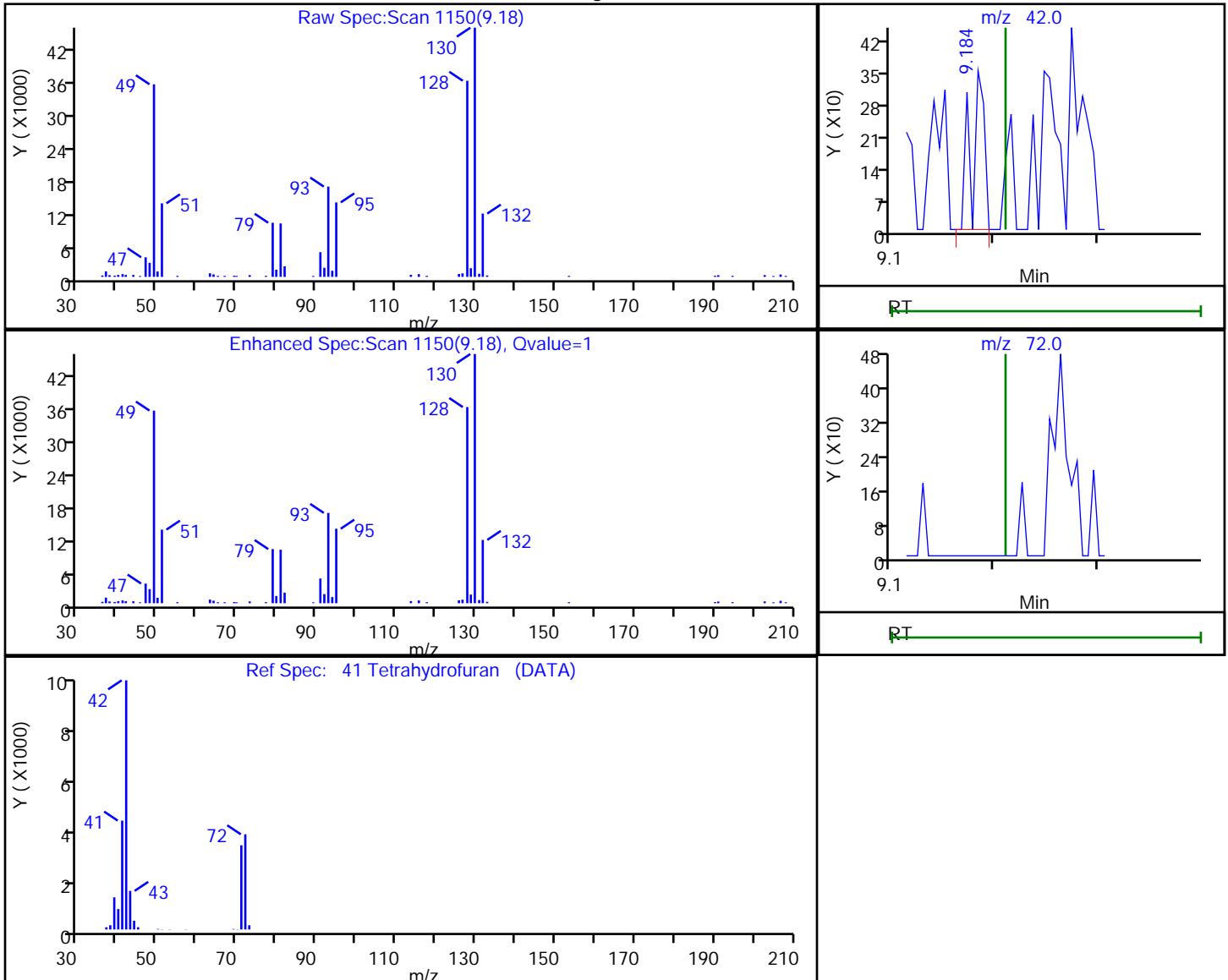
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.18 | 42.00 | 302      | 0.008859 |
| 9.21 | 72.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:26:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

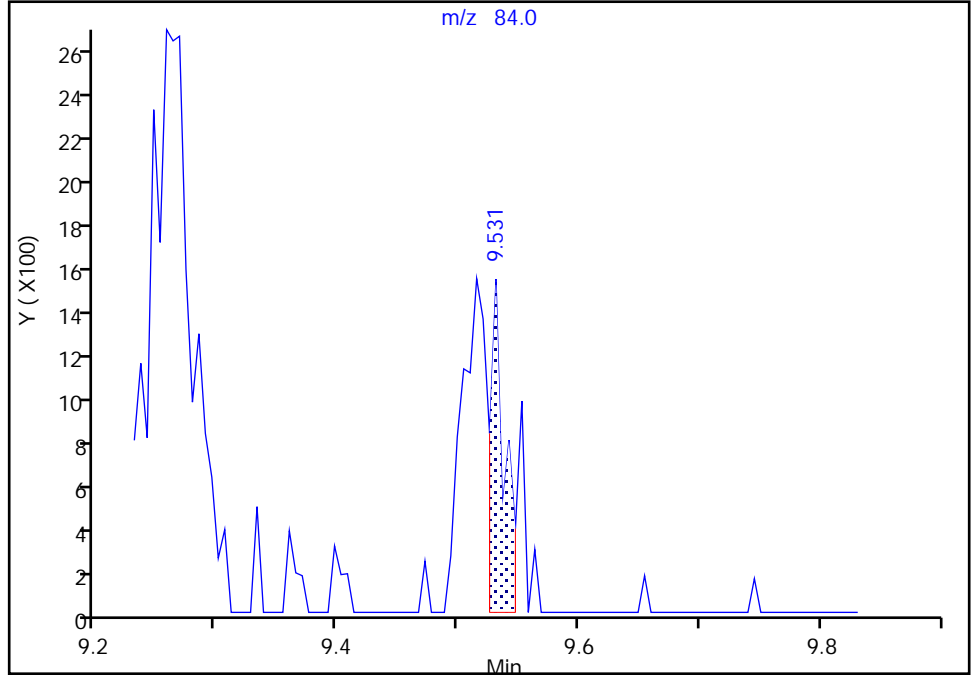
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

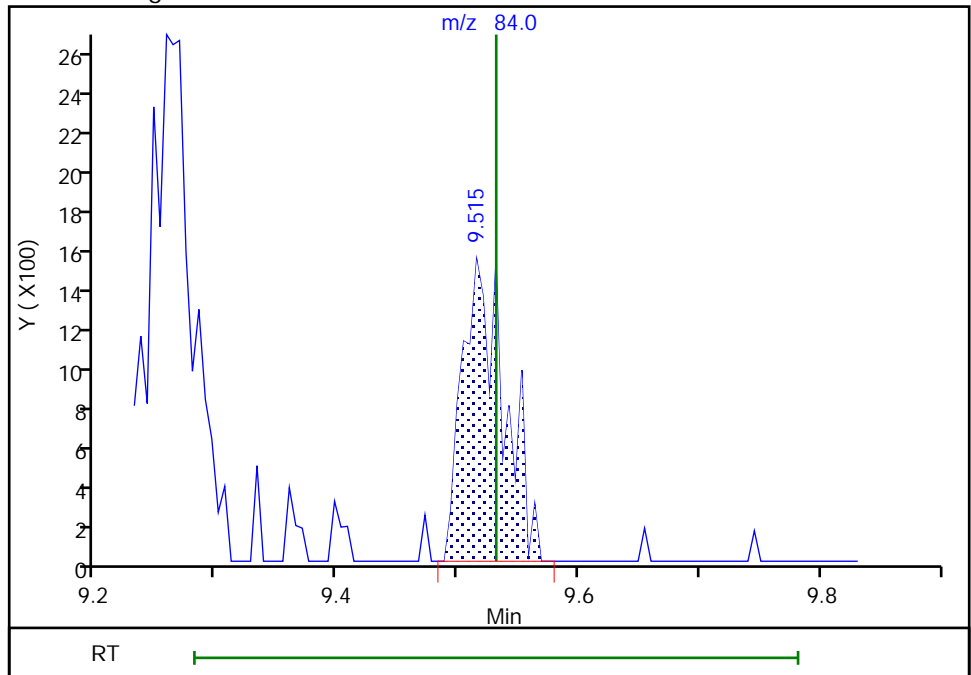
RT: 9.53  
Area: 1257  
Amount: 0.018326  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.52  
Area: 3579  
Amount: 0.052180  
Amount Units: ppb v/v

Manual Integration Results

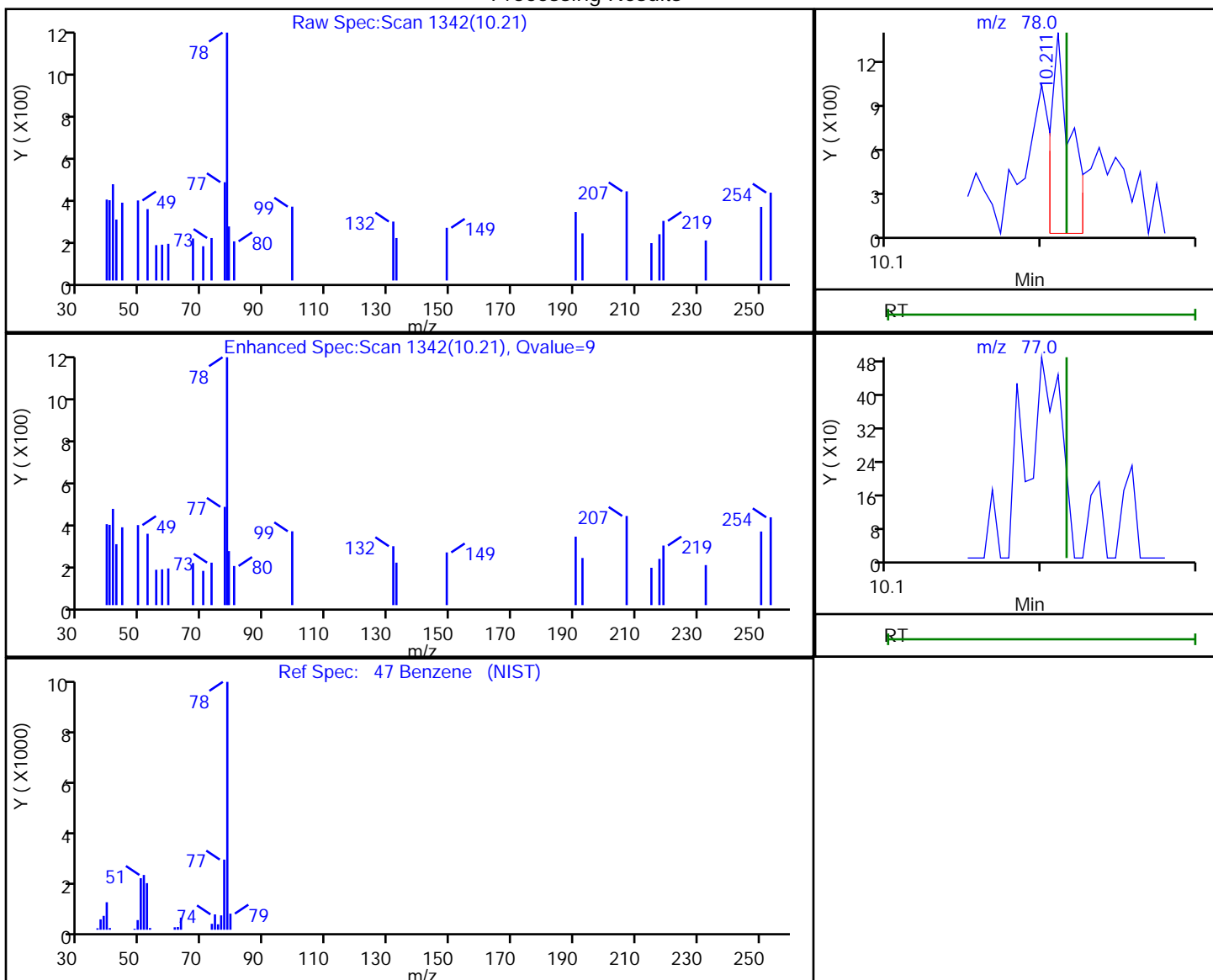


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.21 | 78.00 | 1200     | 0.007541 |
| 10.22 | 77.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:27:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

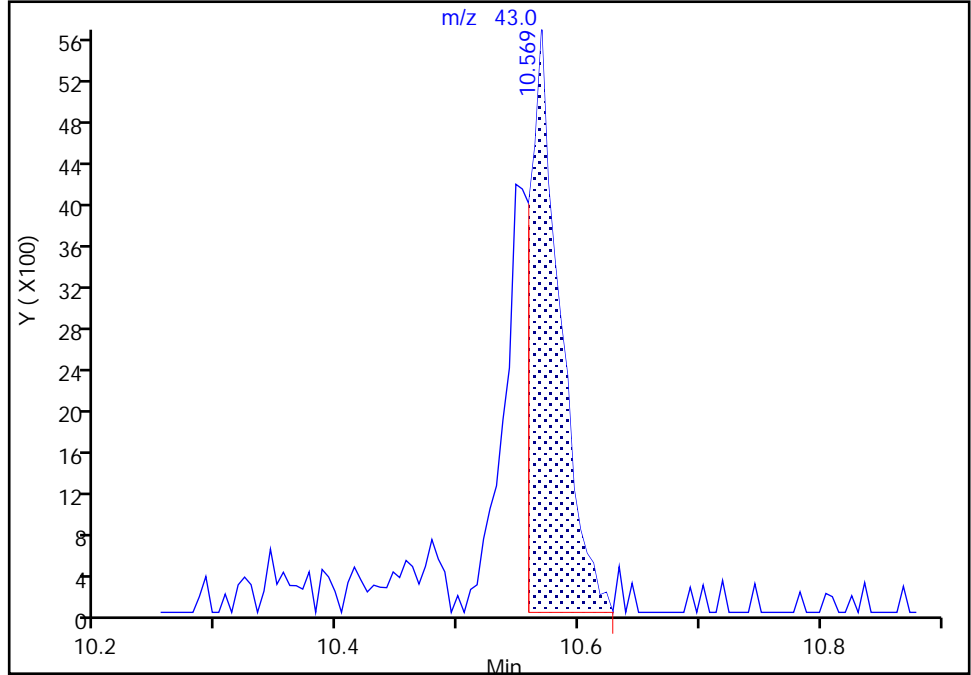
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

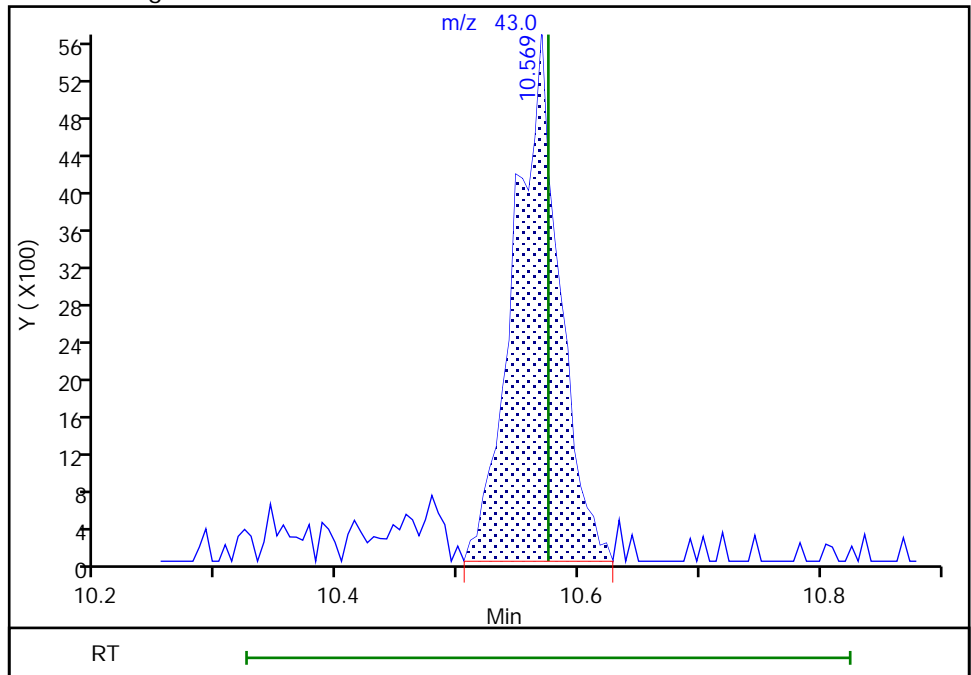
RT: 10.57  
Area: 9703  
Amount: 0.118514  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.57  
Area: 14803  
Amount: 0.180806  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:39:43

Audit Action: Manually Integrated

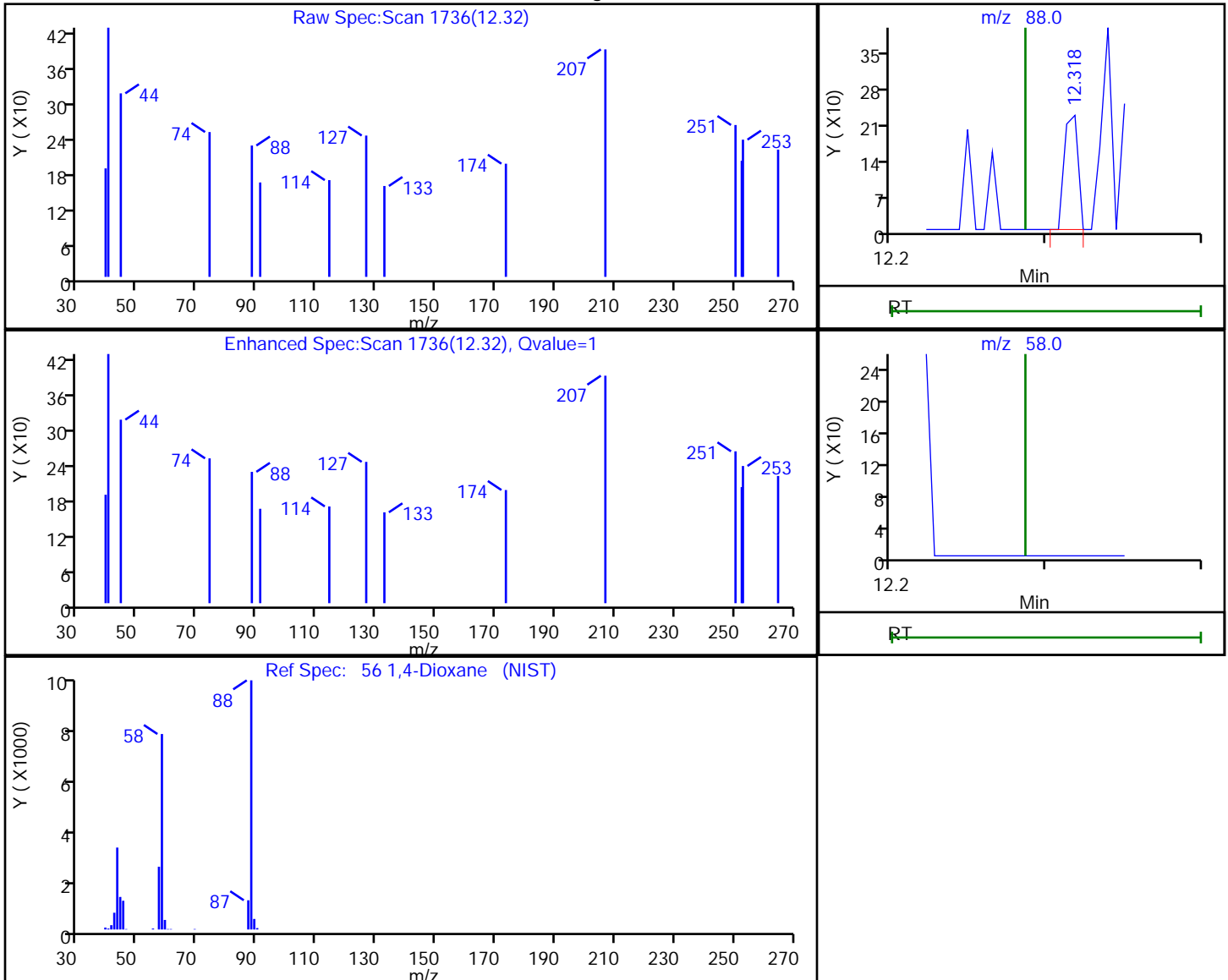
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.32 | 88.00 | 138      | 0.004718 |
| 12.29 | 58.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:27:40  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

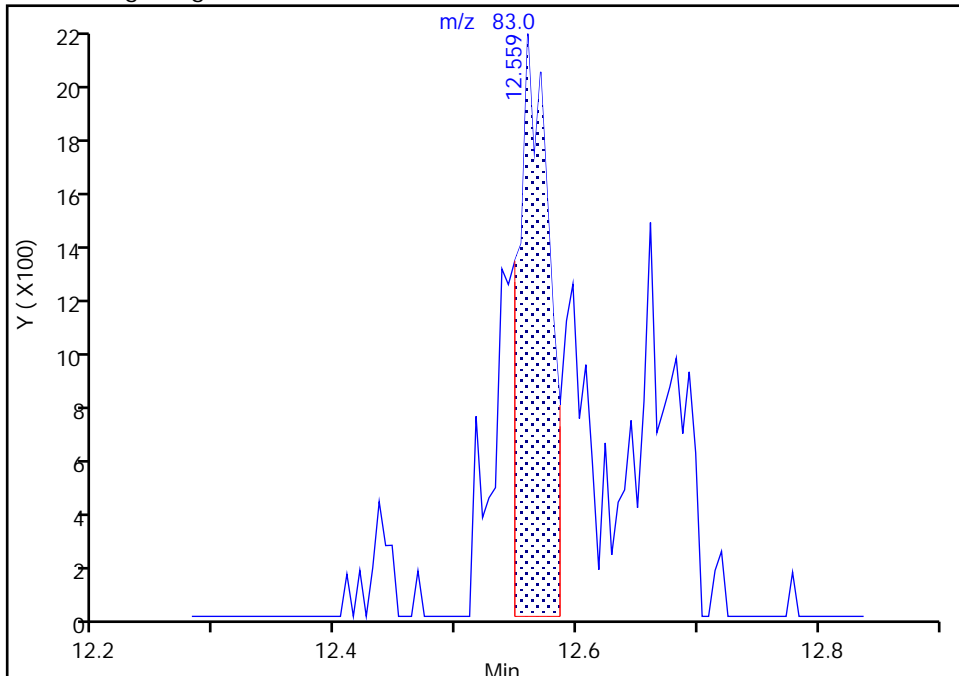
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

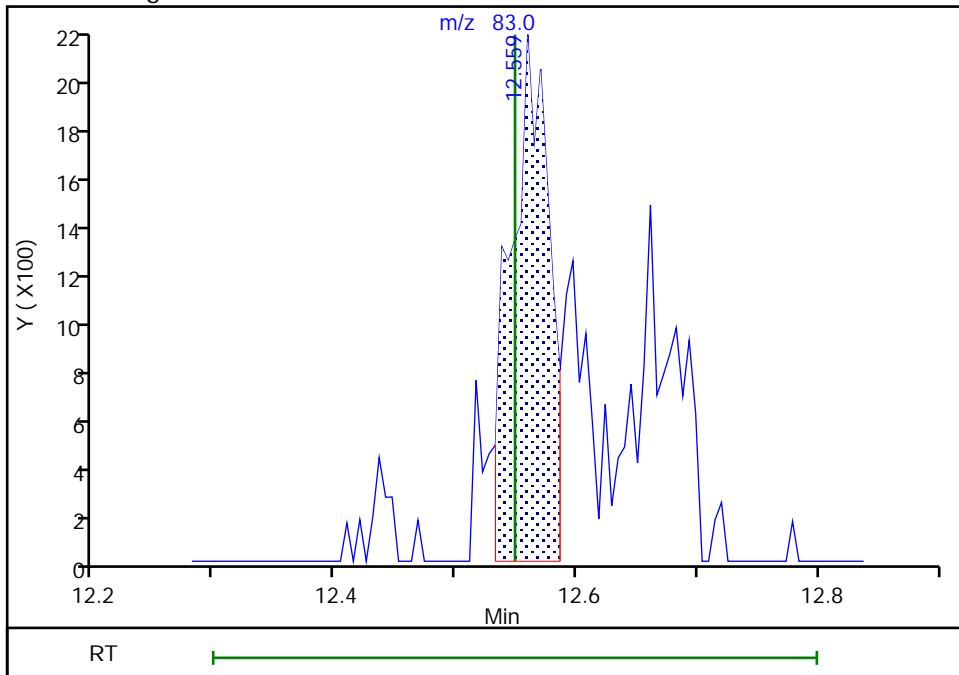
RT: 12.56  
Area: 3790  
Amount: 0.023437  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.56  
Area: 4736  
Amount: 0.029288  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:27:58  
Audit Action: Manually Integrated

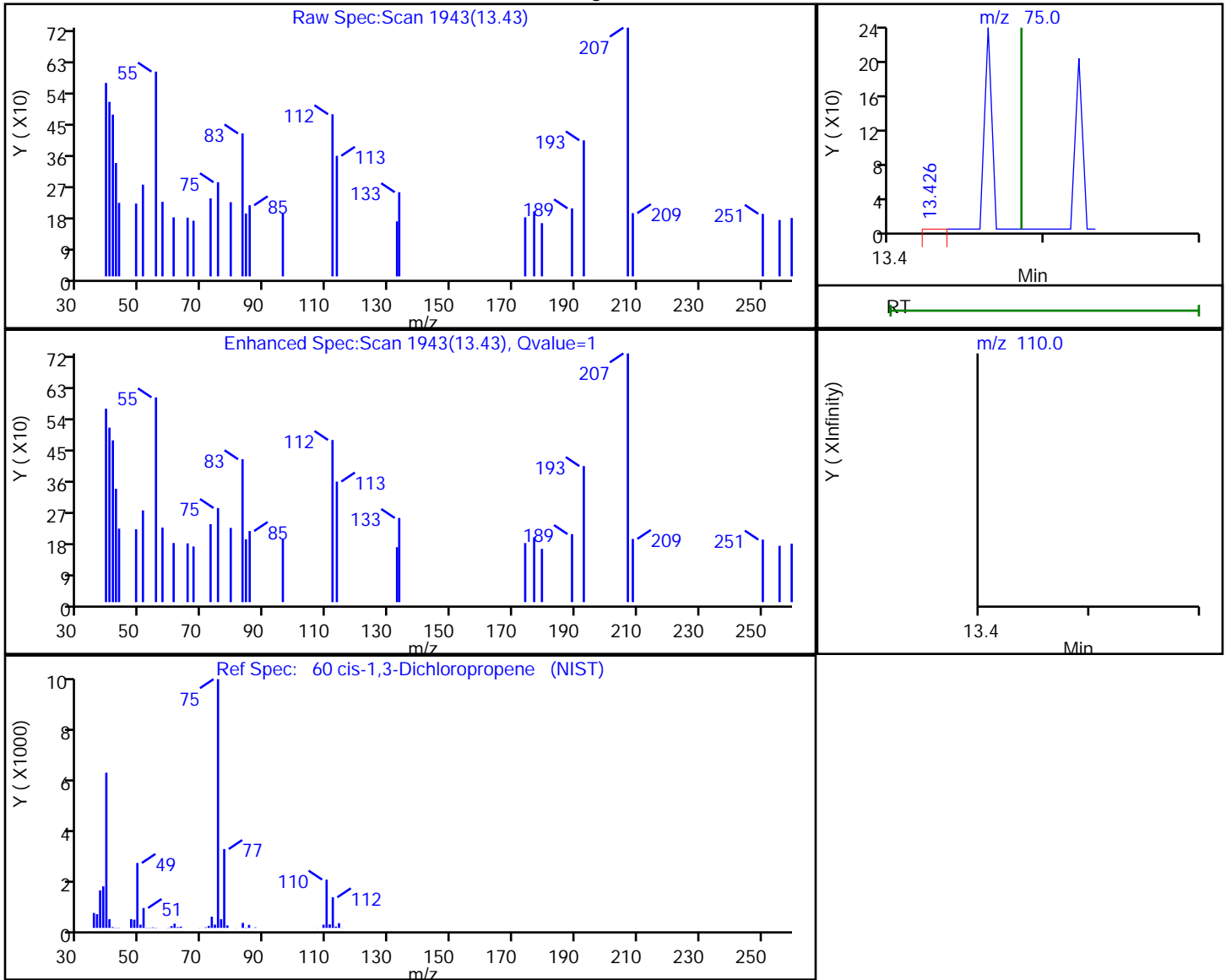
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.43 | 75.00  | 149      | 0.001488 |
| 13.48 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:07

Audit Action: Marked Compound Undetected

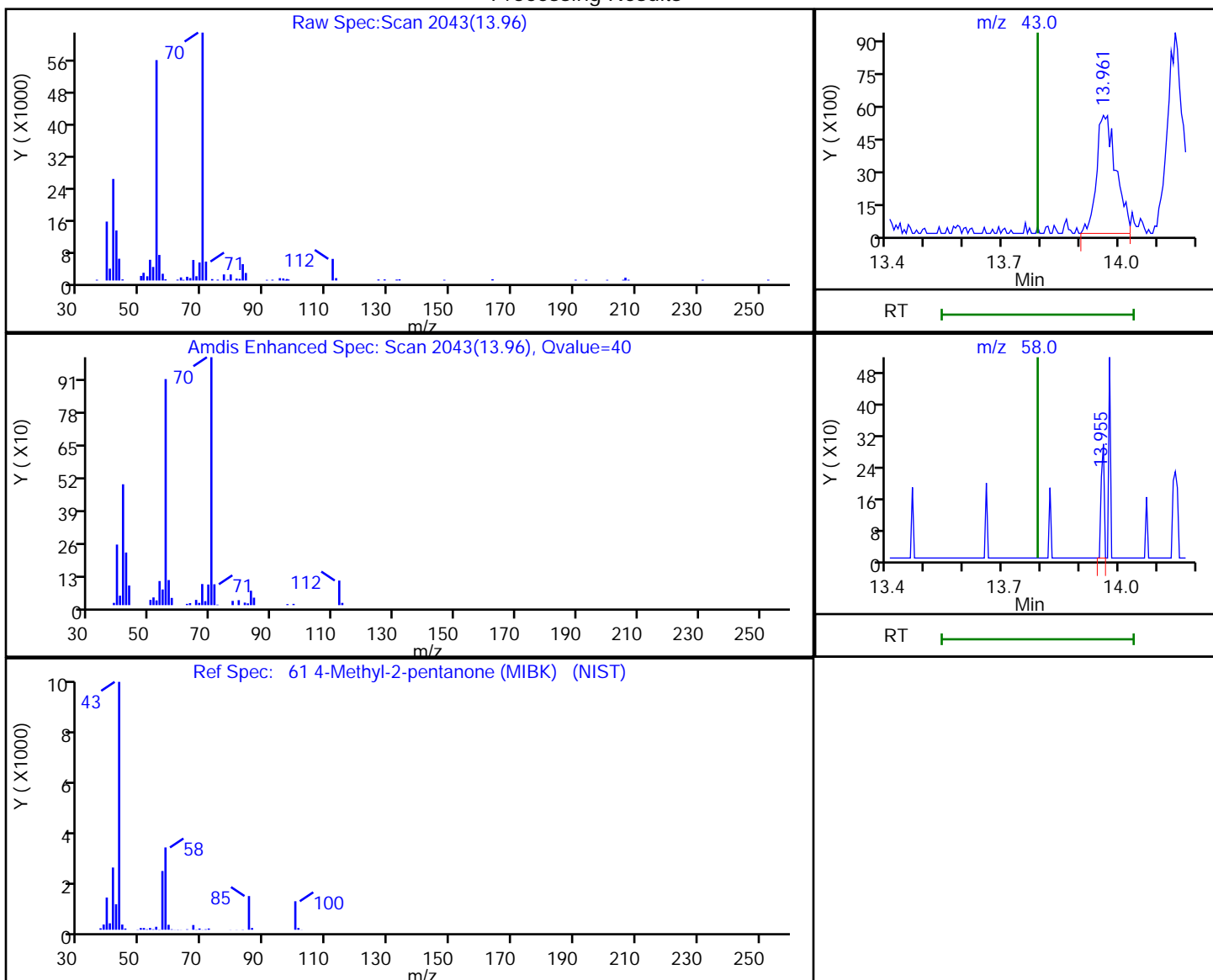
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.96 | 43.00 | 19485    | 0.188308 |
| 13.96 | 58.00 | 161      |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

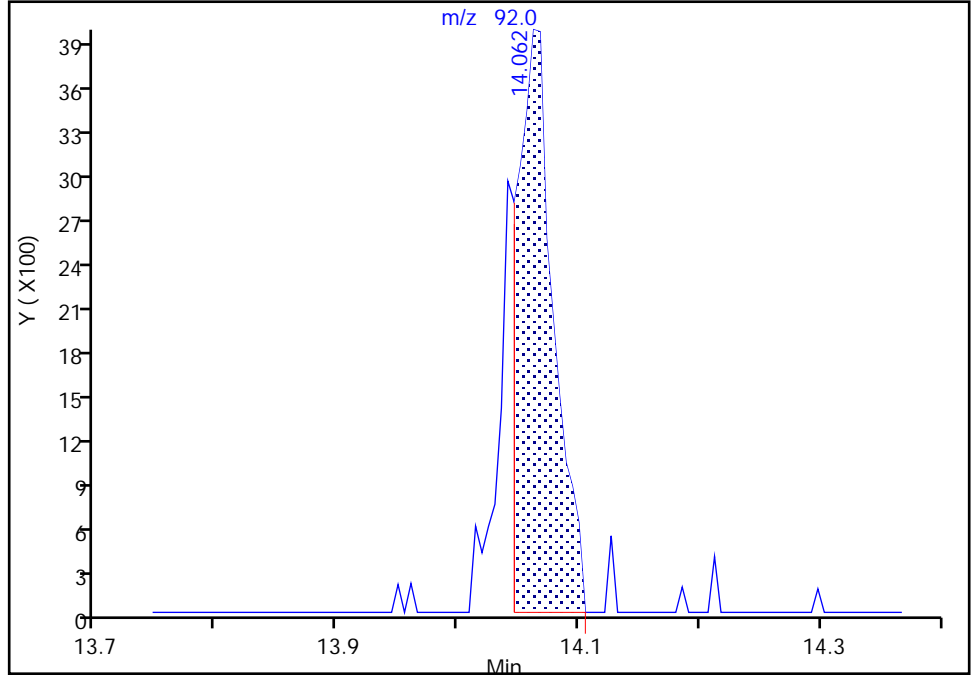
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Signal: 1

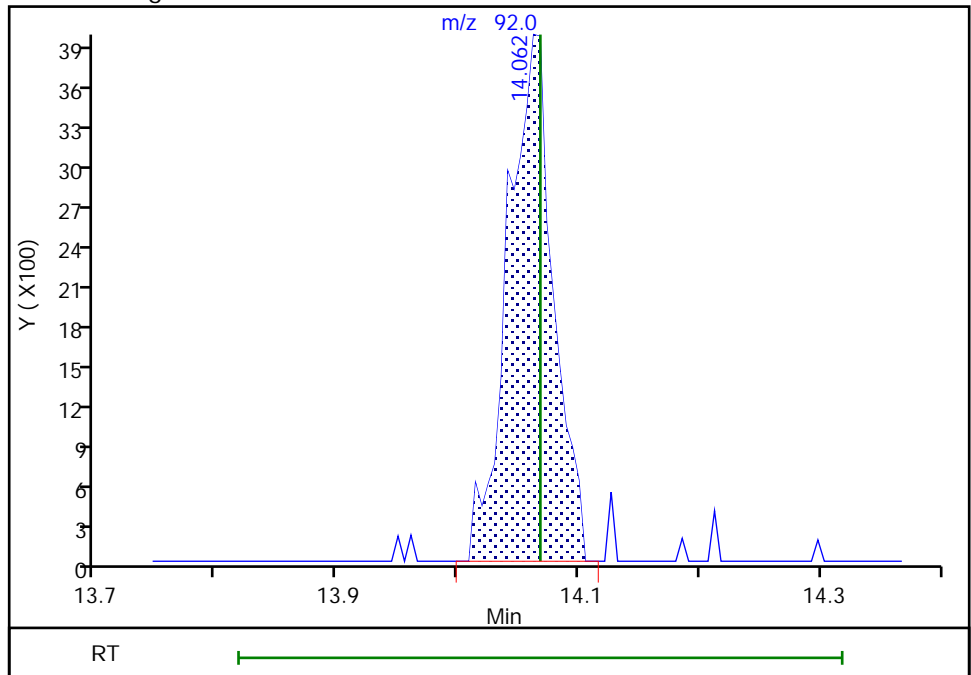
RT: 14.06  
Area: 8228  
Amount: 0.072567  
Amount Units: ppb v/v

Processing Integration Results



RT: 14.06  
Area: 10357  
Amount: 0.091343  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:39:55  
Audit Action: Manually Integrated

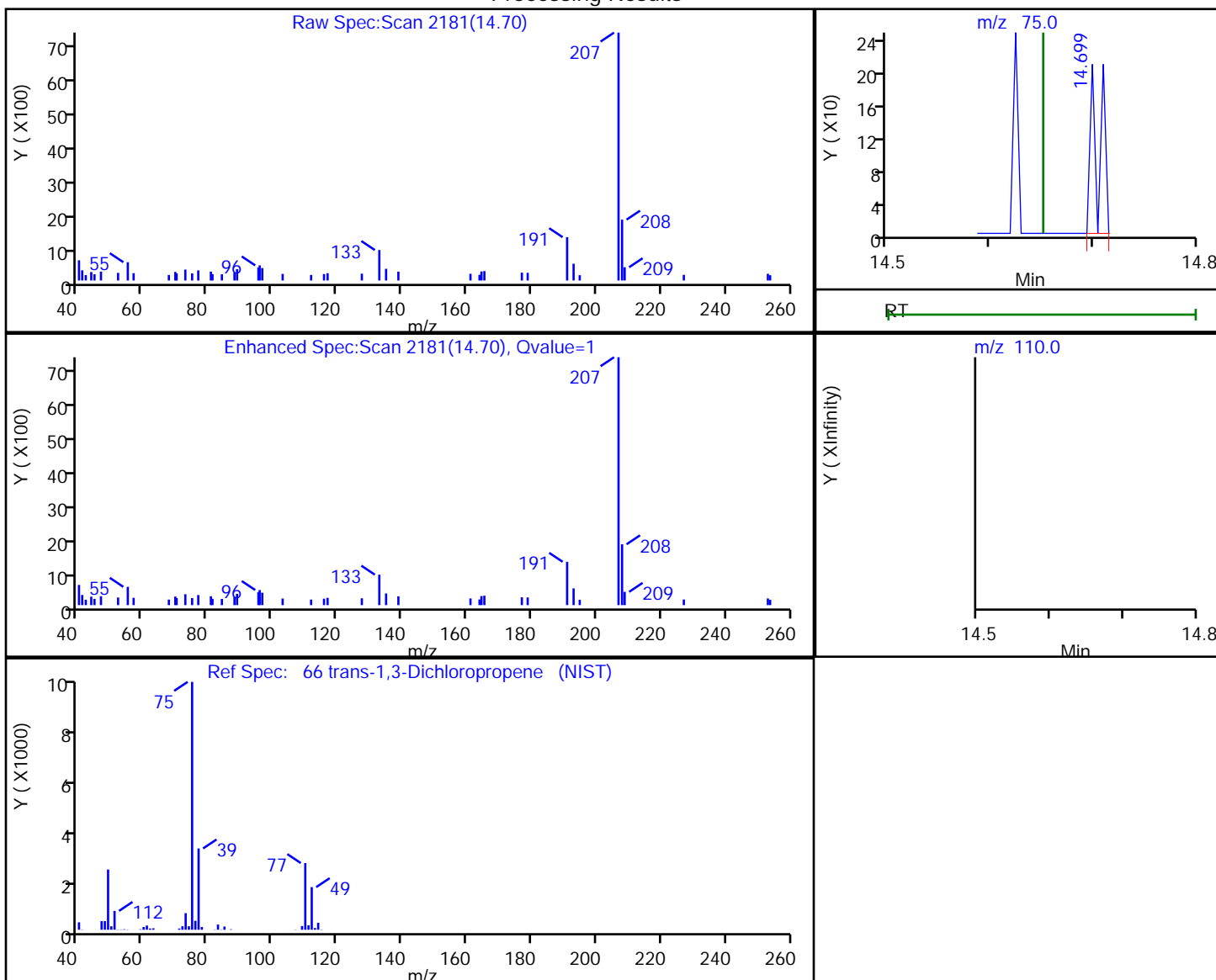
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.70 | 75.00  | 134      | 0.001361 |
| 14.65 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:18

Audit Action: Marked Compound Undetected

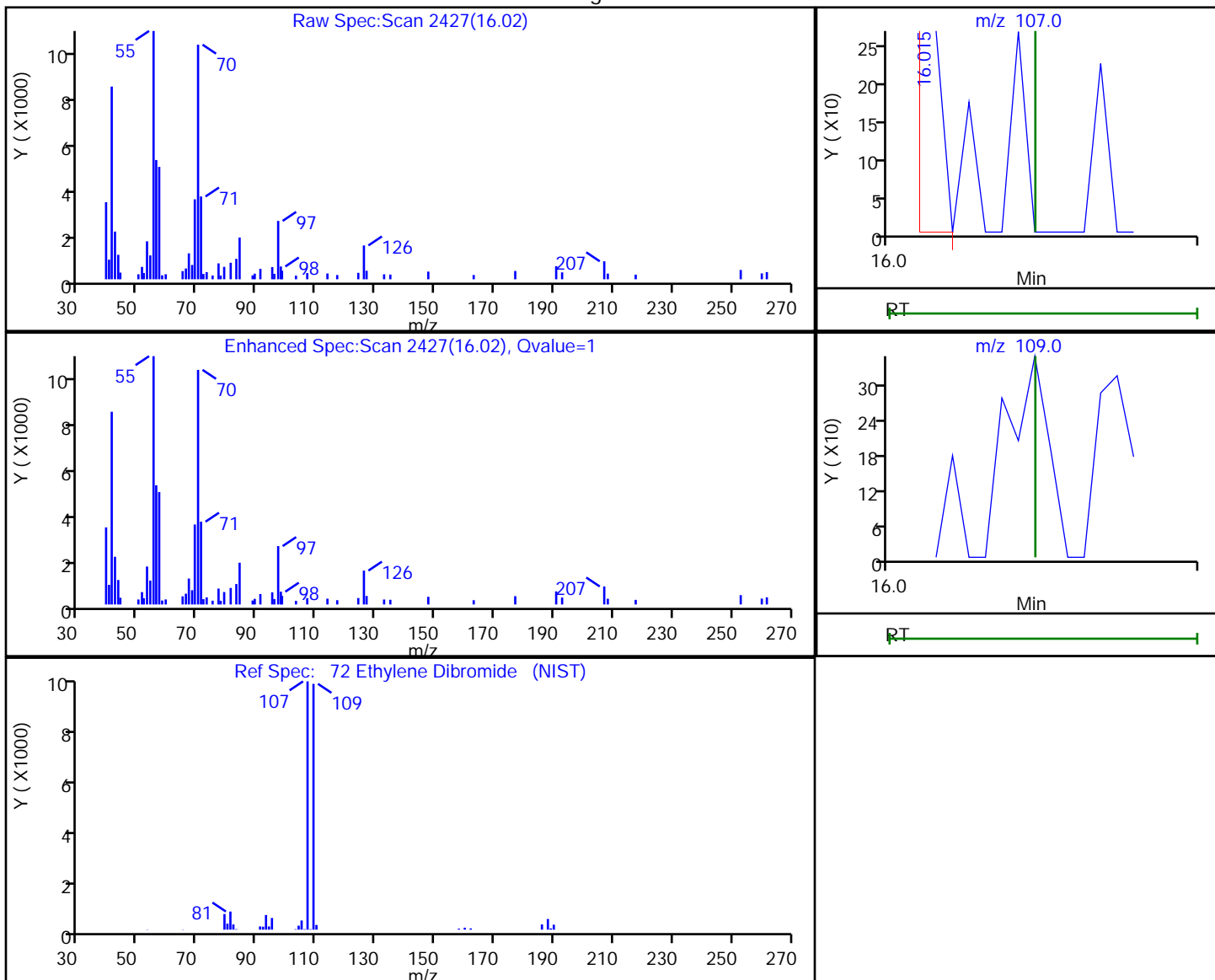
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 16.02 | 107.00 | 85       | 0.000686 |
| 16.05 | 109.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

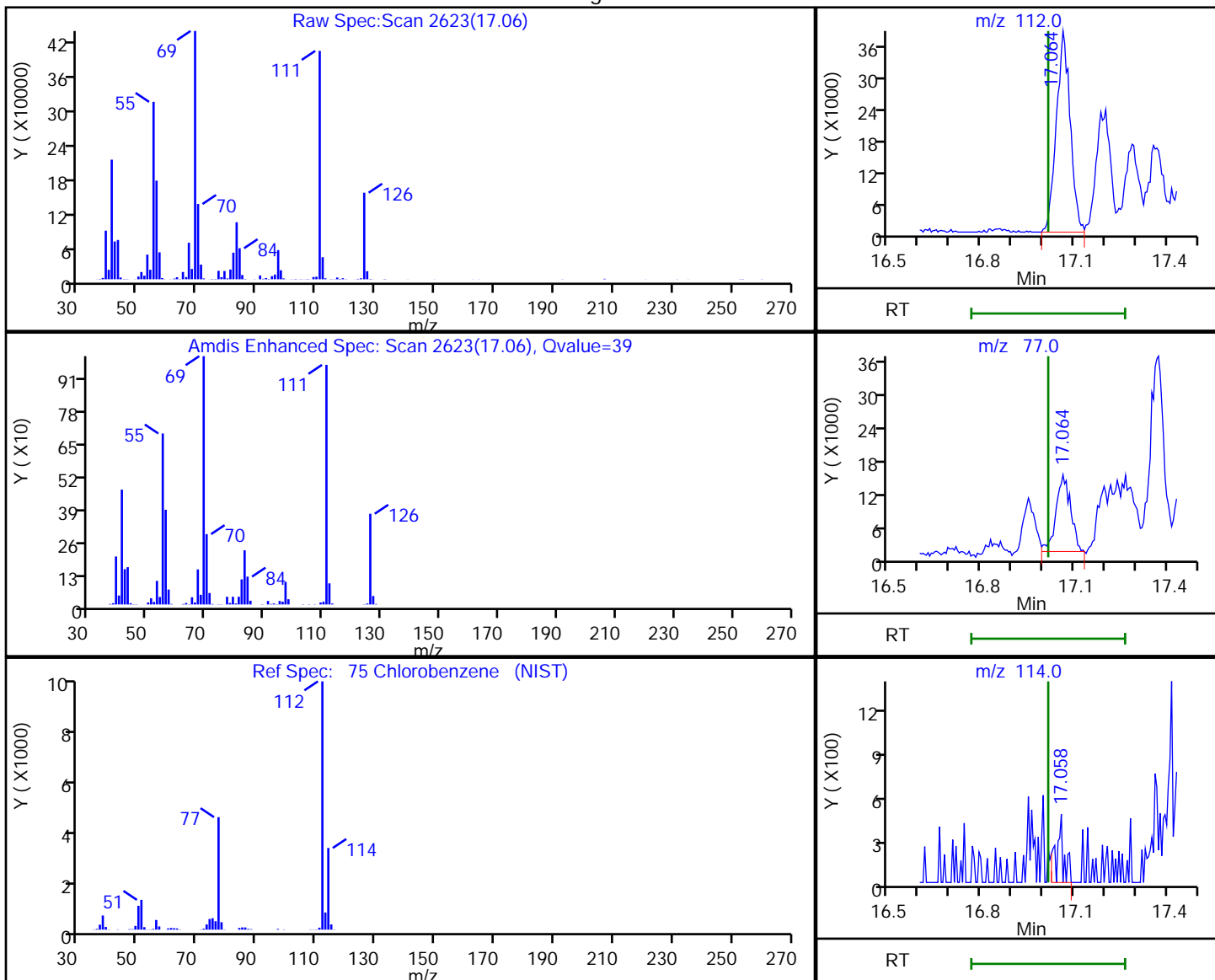


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.06 | 112.00 | 120717   | 0.692150 |
| 17.06 | 77.00  | 45003    |          |
| 17.06 | 114.00 | 751      |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:48  
 Audit Action: Marked Compound Undetected

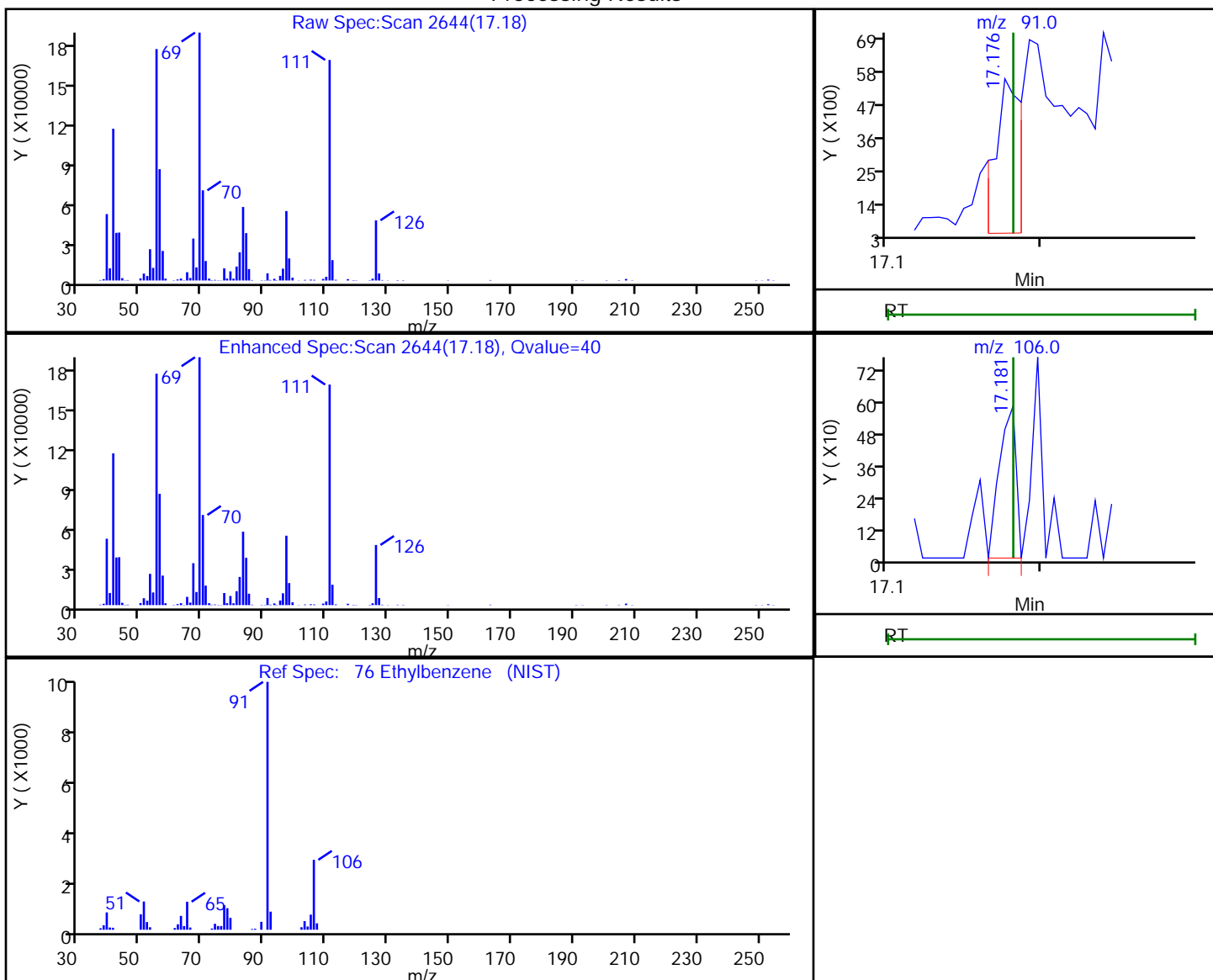
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.18 | 91.00  | 6131     | 0.024012 |
| 17.18 | 106.00 | 433      |          |

Reviewer: bunmaa, 07-Dec-2018 09:28:56

Audit Action: Marked Compound Undetected

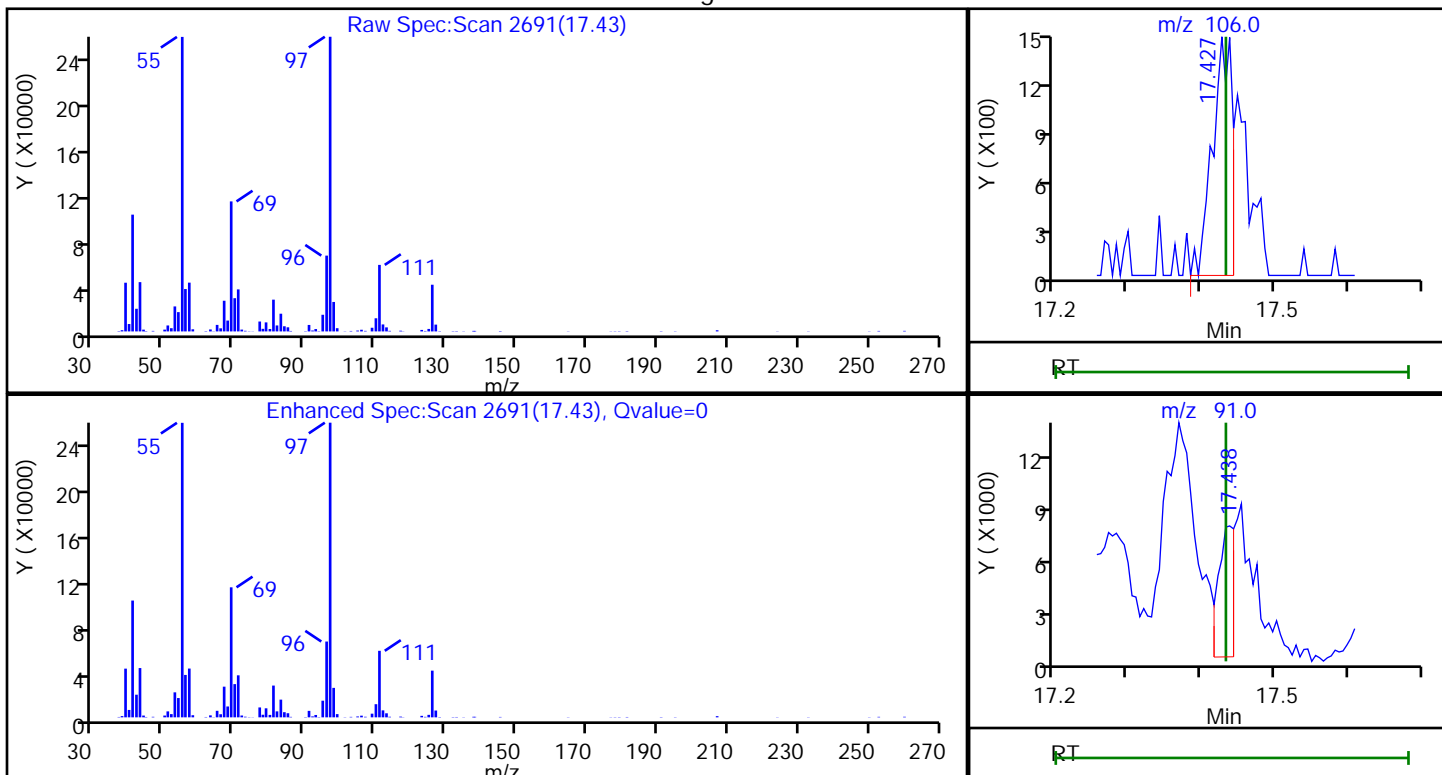
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.43 | 106.00 | 2762     | 0.026686 |
| 17.44 | 91.00  | 10678    |          |

Reviewer: bunmaa, 07-Dec-2018 09:29:16

Audit Action: Marked Compound Undetected

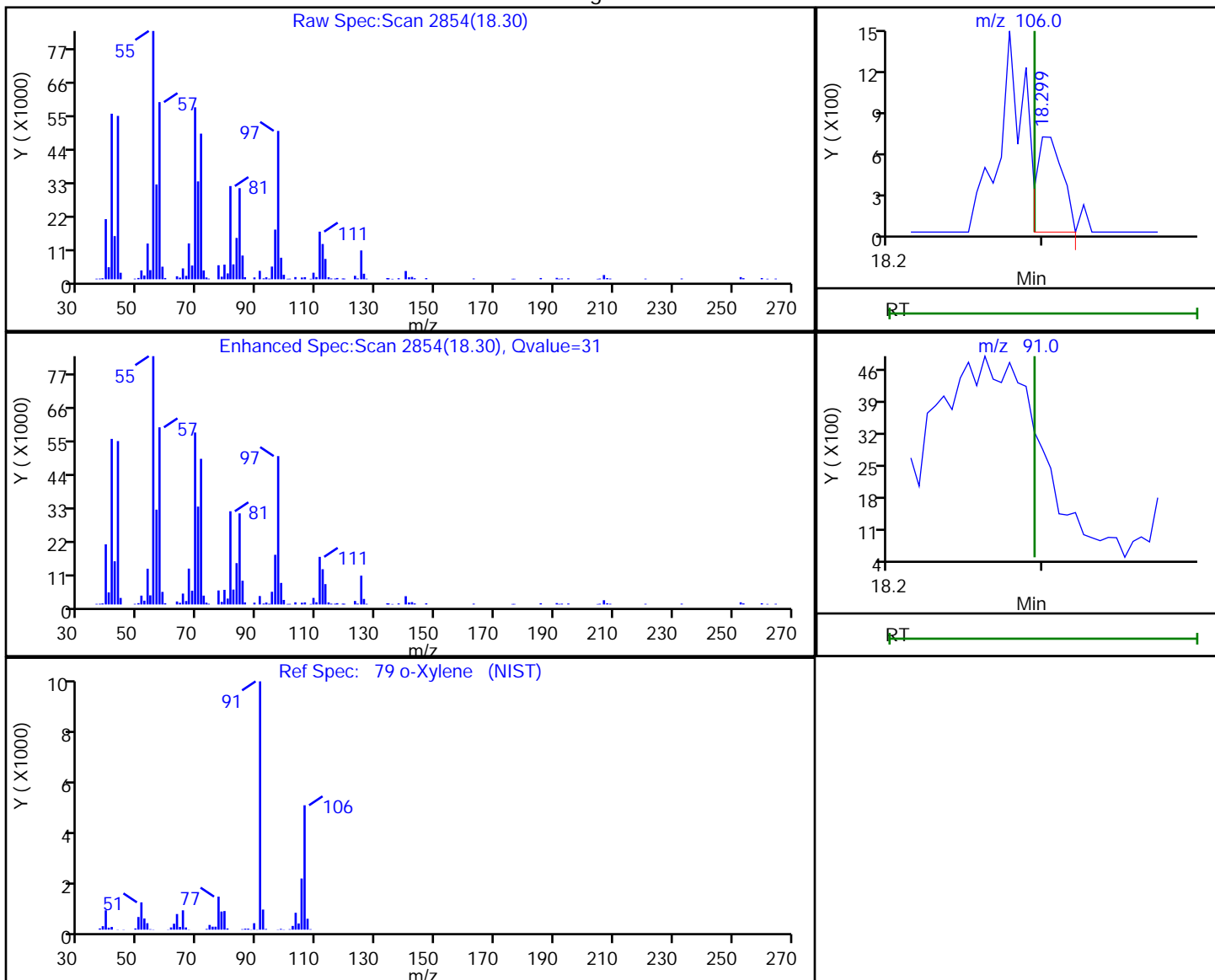
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.30 | 106.00 | 814      | 0.008275 |
| 18.29 | 91.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:40:18  
Audit Action: Marked Compound Undetected

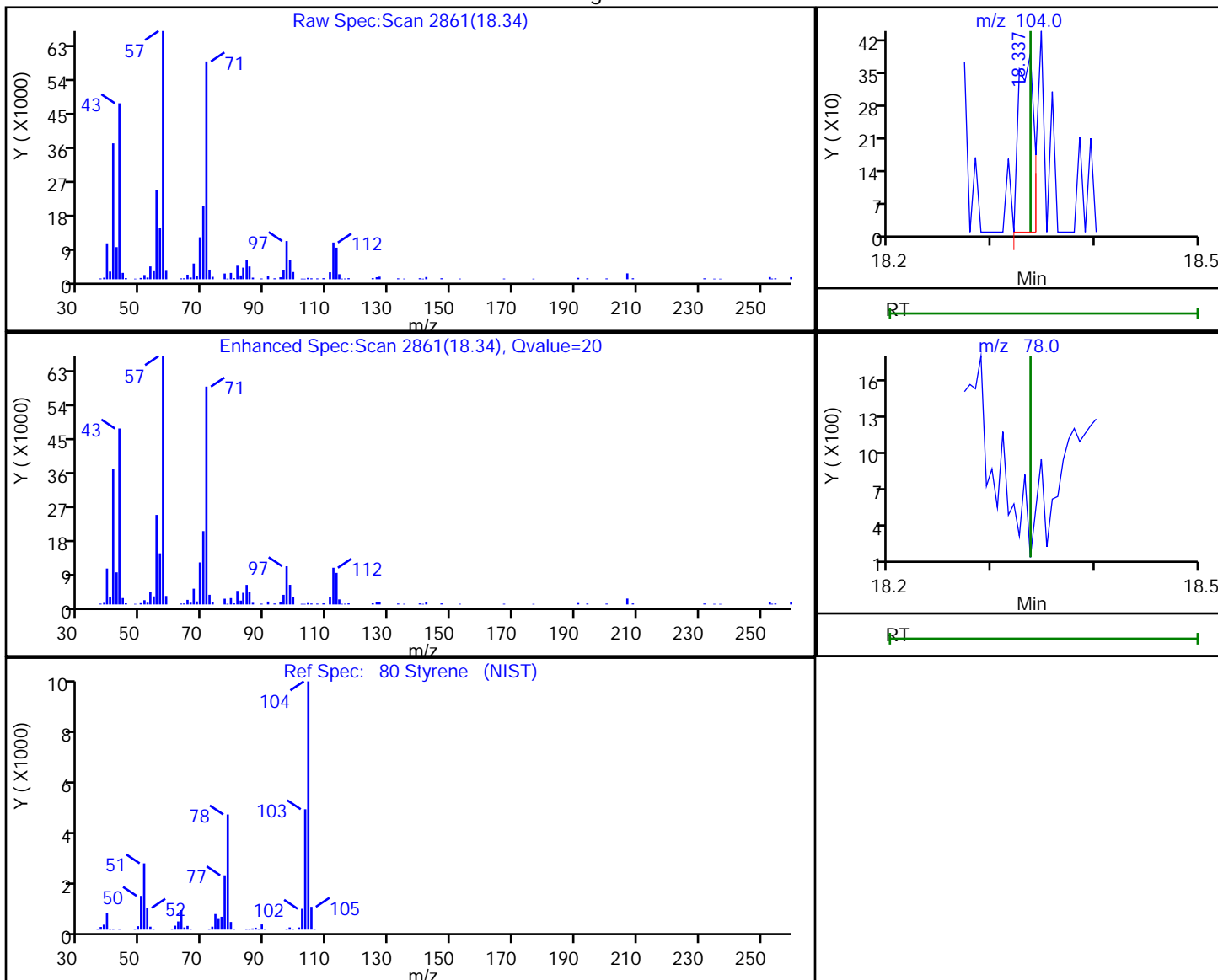
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.34 | 104.00 | 391      | 0.002597 |
| 18.34 | 78.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:40:20  
 Audit Action: Marked Compound Undetected

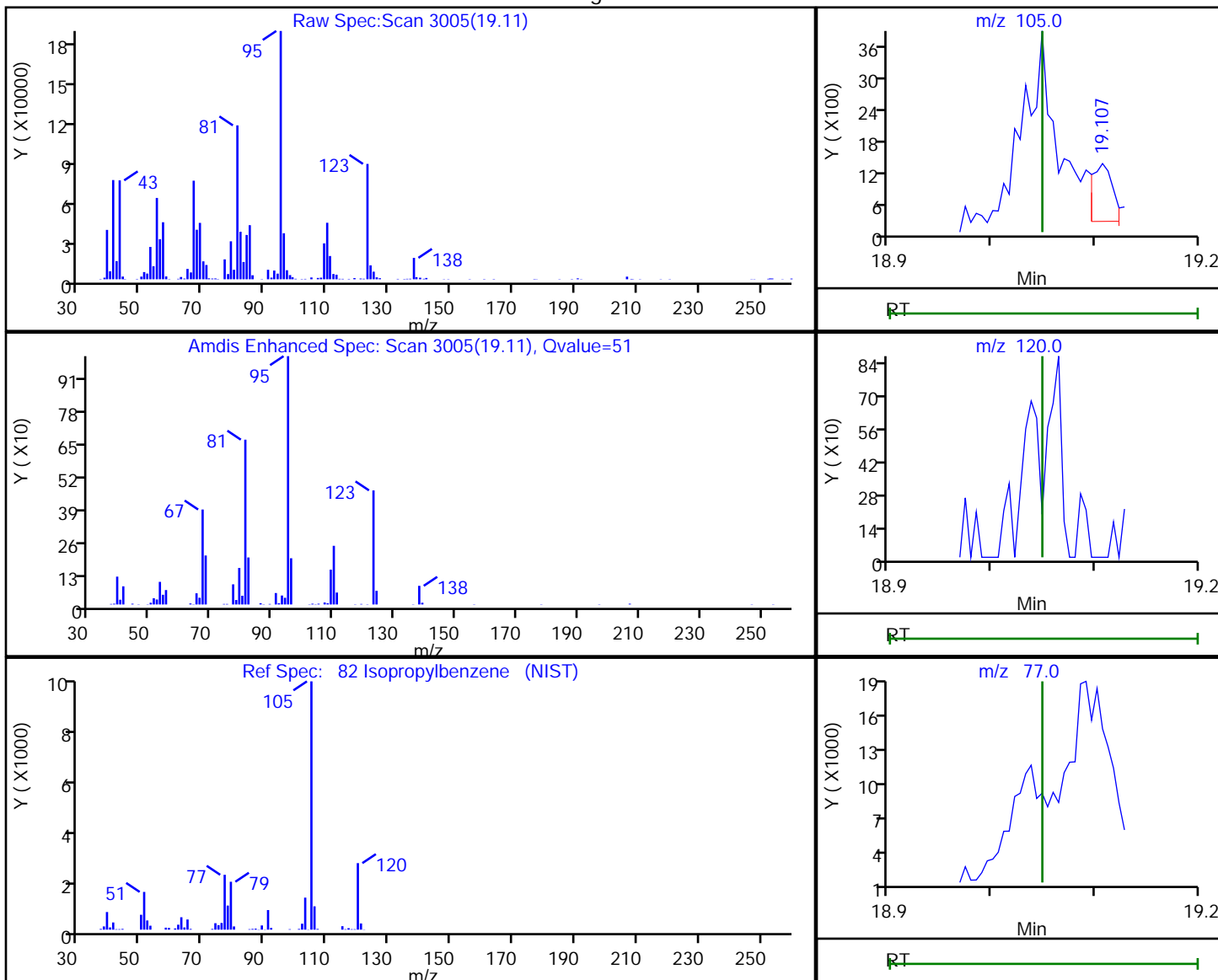
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.11 | 105.00 | 1527     | 0.005309 |
| 19.05 | 120.00 | 0        |          |
| 19.05 | 77.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:29:49  
 Audit Action: Marked Compound Undetected

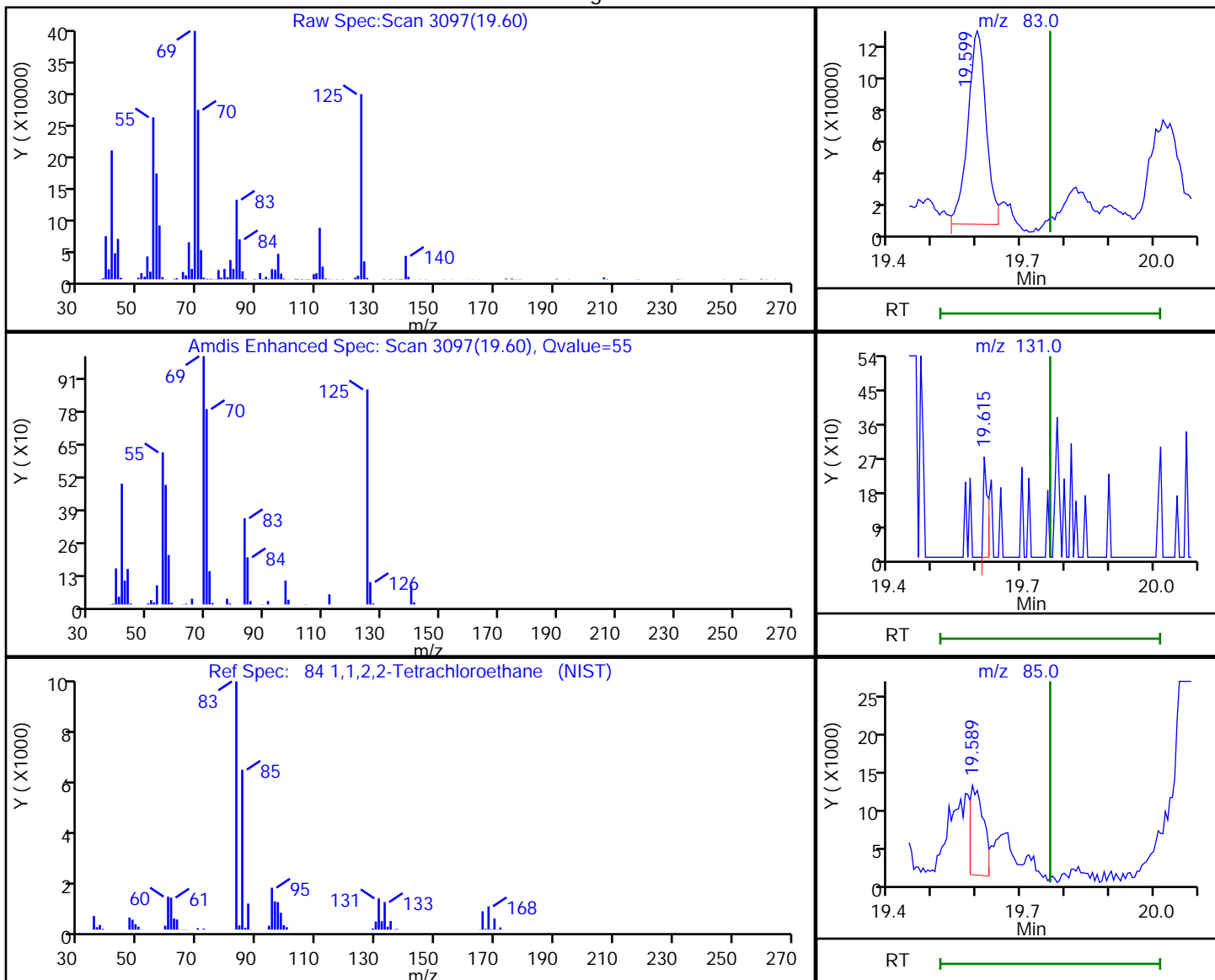
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.60 | 83.00  | 345636   | 2.202448 |
| 19.62 | 131.00 | 189      |          |
| 19.59 | 85.00  | 24383    |          |

Reviewer: guazzonig, 06-Dec-2018 13:40:22  
 Audit Action: Marked Compound Undetected

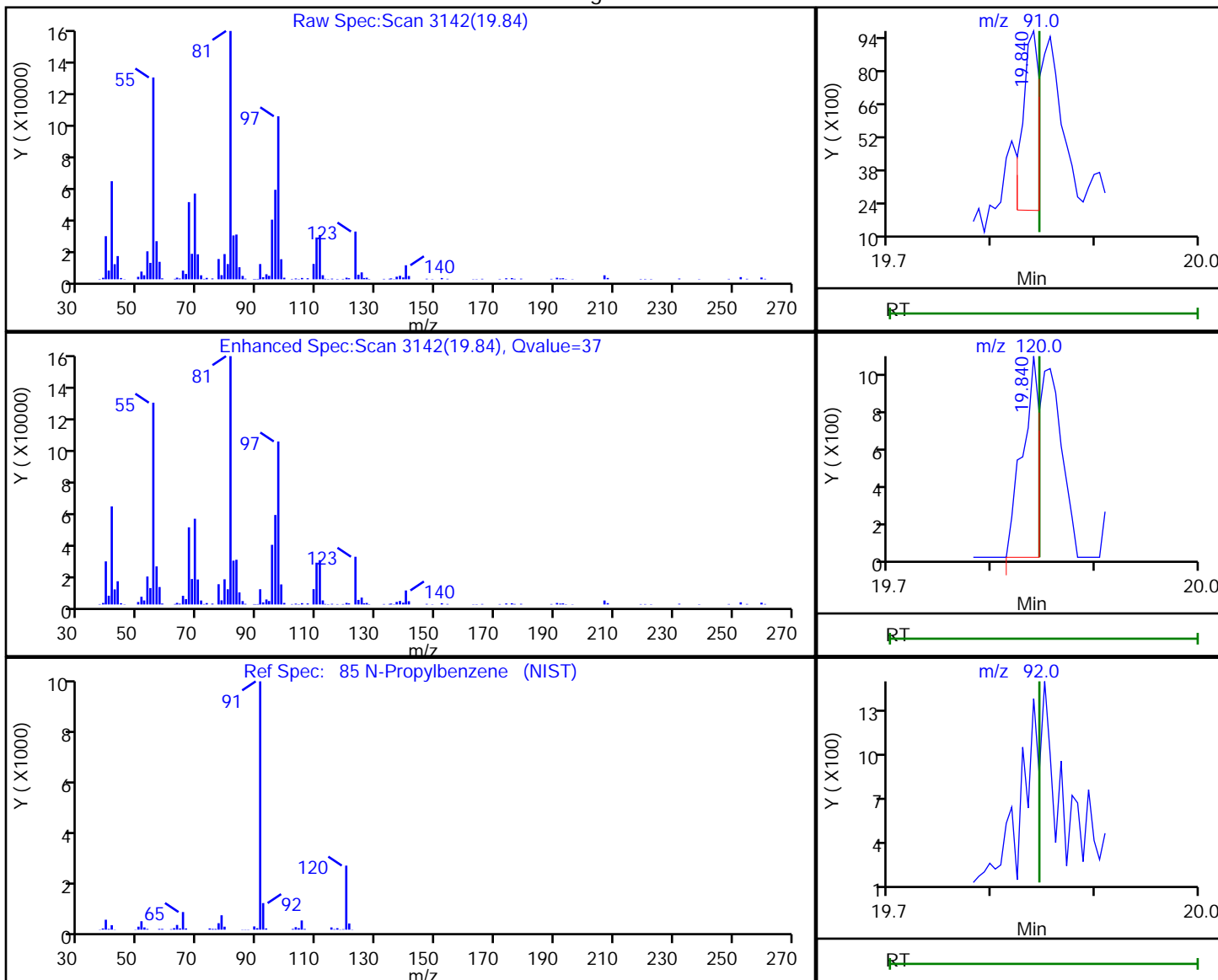
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.84 | 91.00  | 8504     | 0.024829 |
| 19.84 | 120.00 | 1144     |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:30:16  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

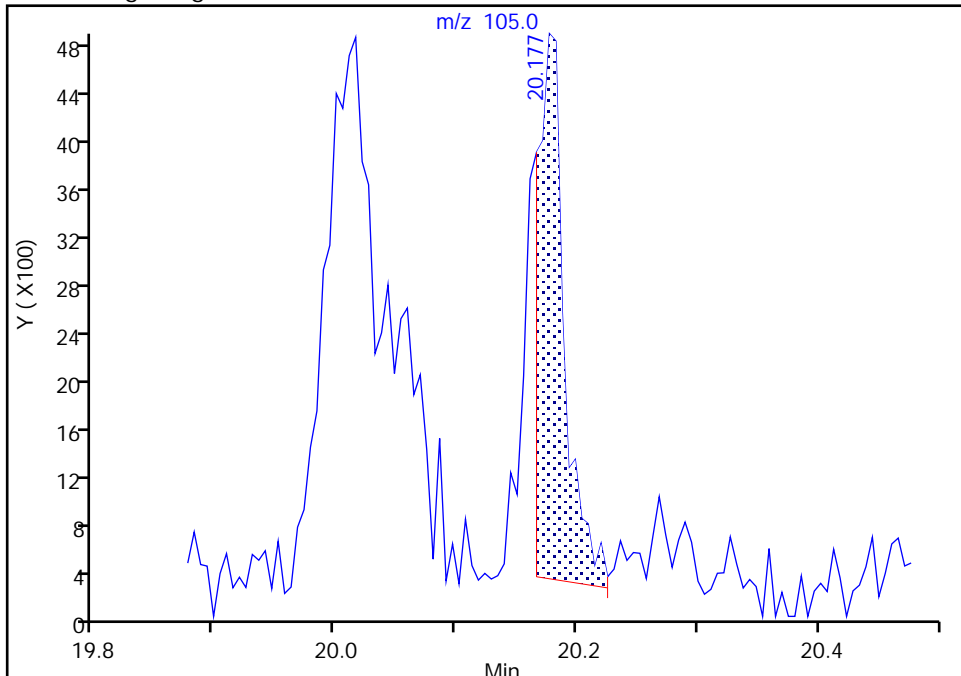
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

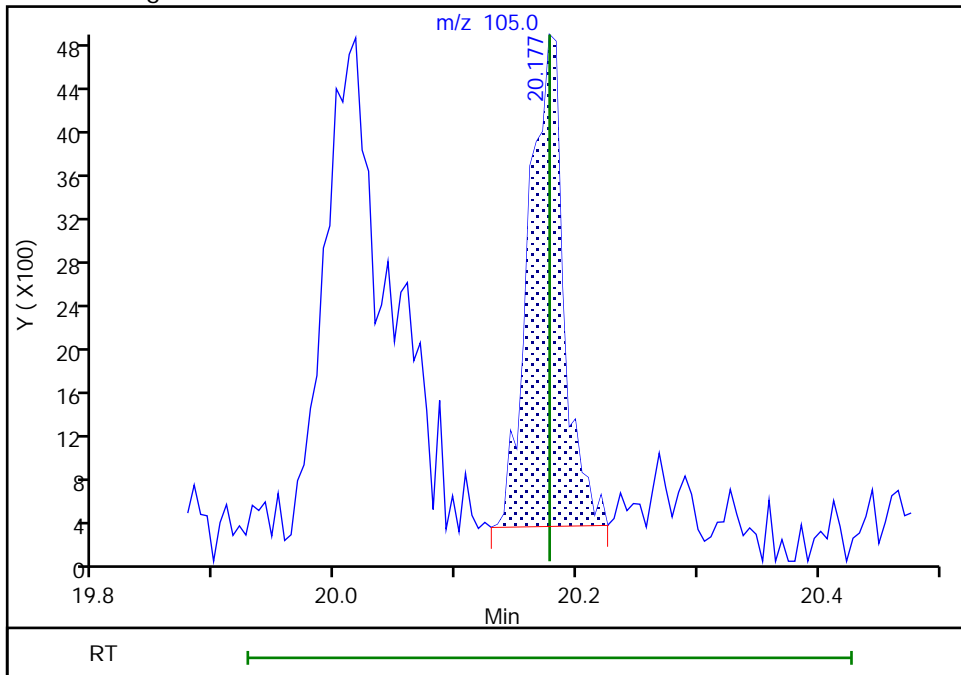
RT: 20.18  
Area: 7103  
Amount: 0.028474  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.18  
Area: 9118  
Amount: 0.036551  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:40:41  
Audit Action: Manually Integrated

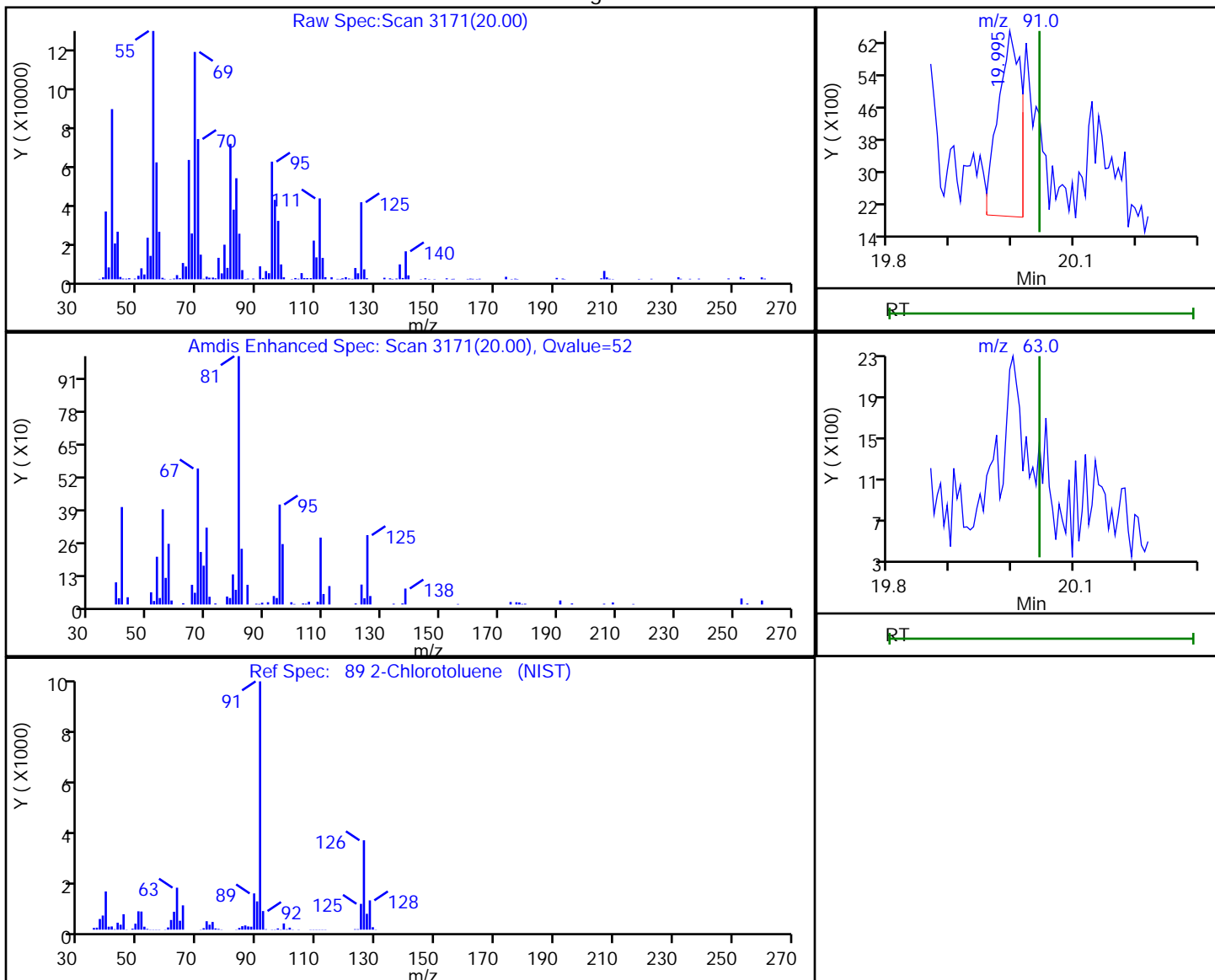
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.00 | 91.00 | 11756    | 0.045450 |
| 20.04 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:40:25  
Audit Action: Marked Compound Undetected

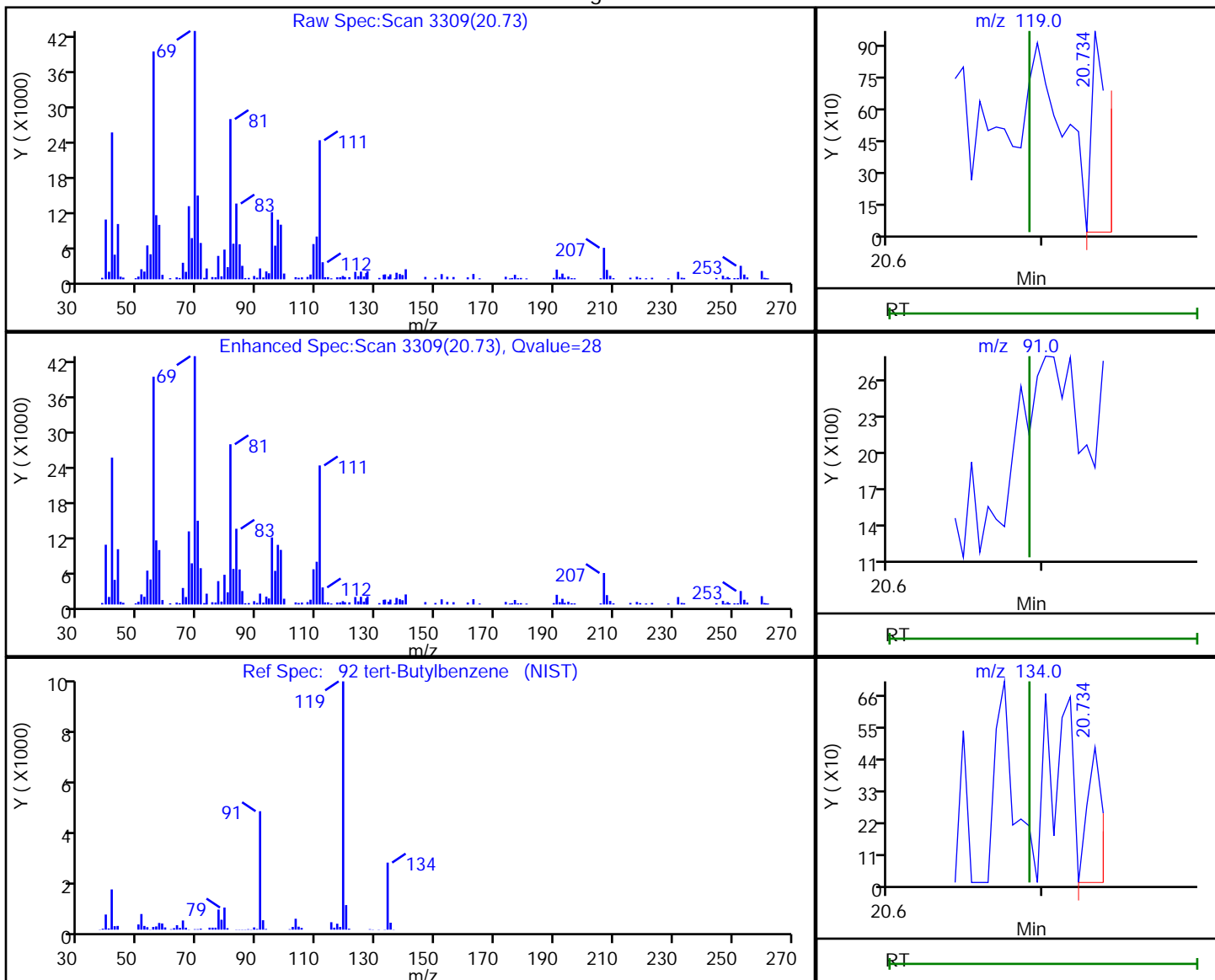
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.73 | 119.00 | 609      | 0.002610 |
| 20.73 | 134.00 | 316      |          |
| 20.69 | 91.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:30:40  
 Audit Action: Marked Compound Undetected

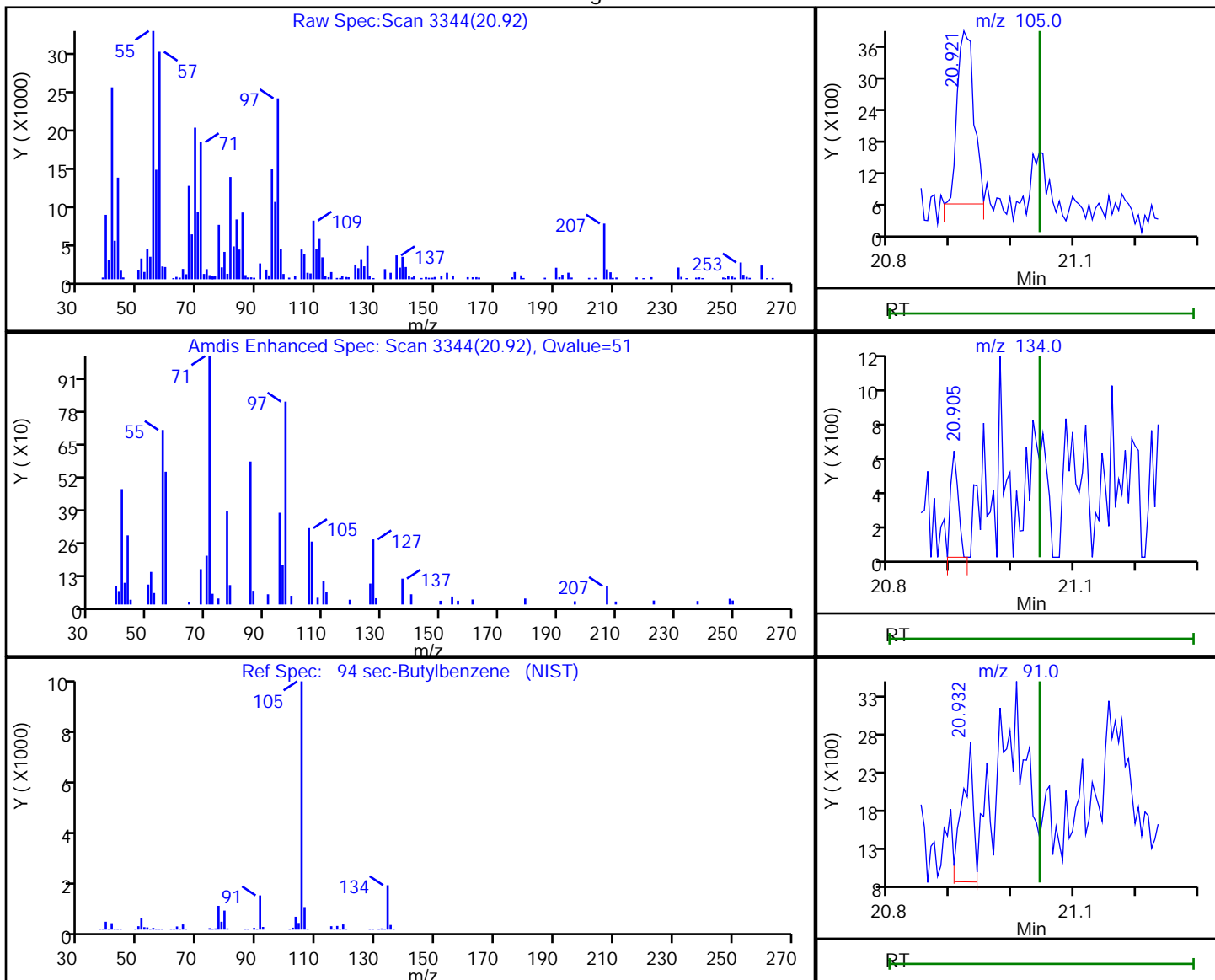
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 6221     | 0.017980 |
| 20.90 | 134.00 | 528      |          |
| 20.93 | 91.00  | 2173     |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:01  
Audit Action: Marked Compound Undetected

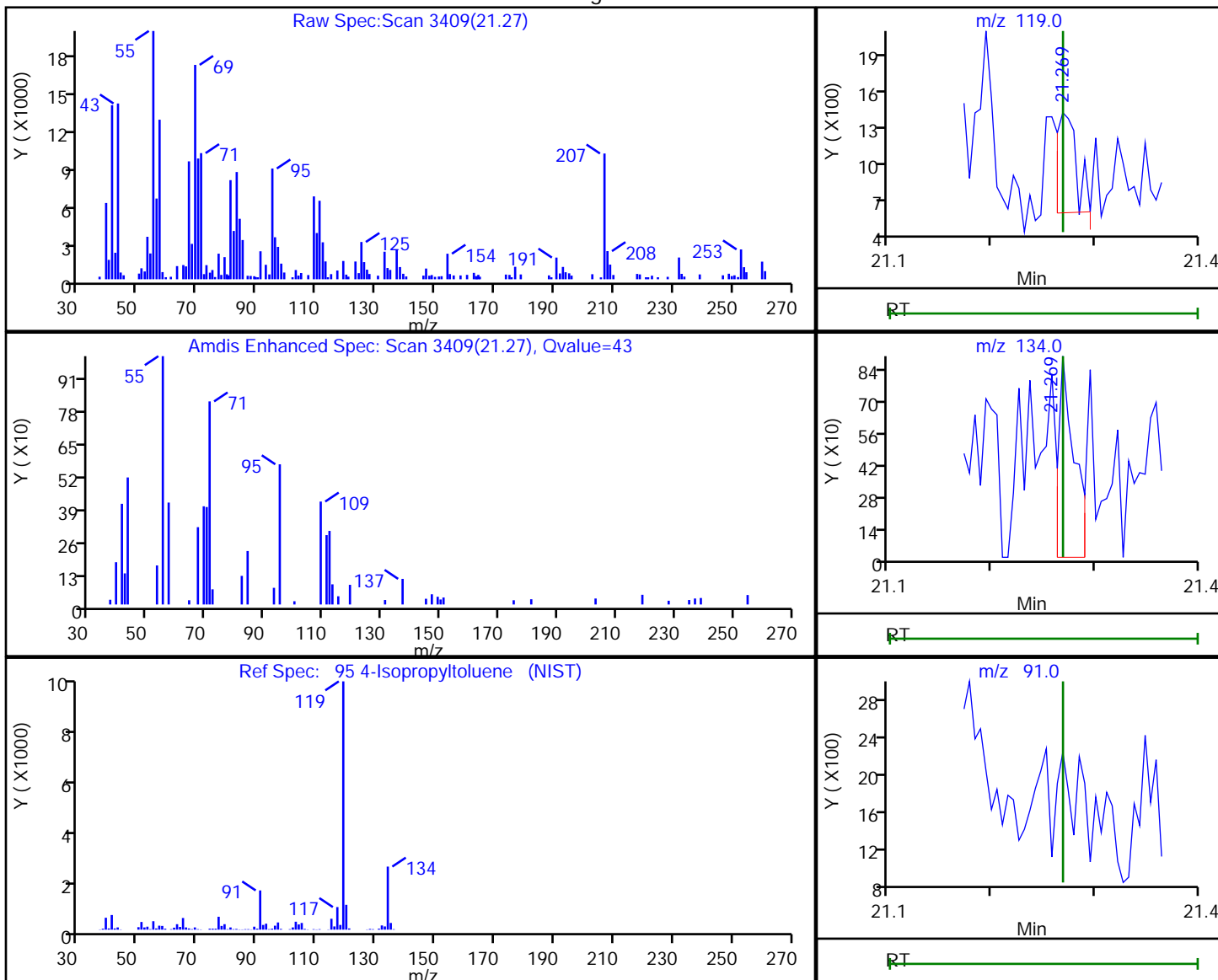
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.27 | 119.00 | 1035     | 0.003490 |
| 21.27 | 134.00 | 963      |          |
| 21.27 | 91.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:04

Audit Action: Marked Compound Undetected

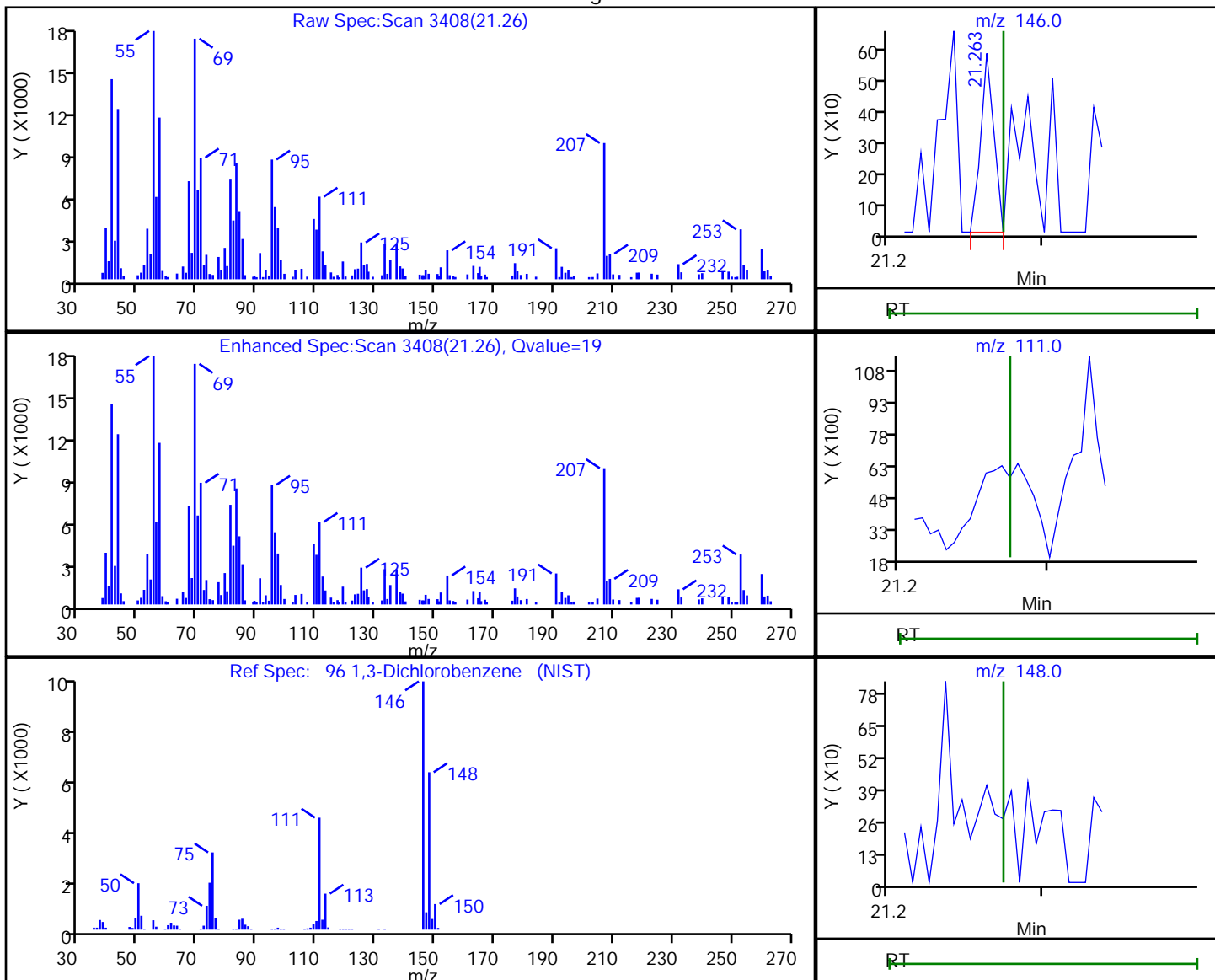
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 146.00 | 347      | 0.001740 |
| 21.27 | 111.00 | 0        |          |
| 21.27 | 148.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:06

Audit Action: Marked Compound Undetected

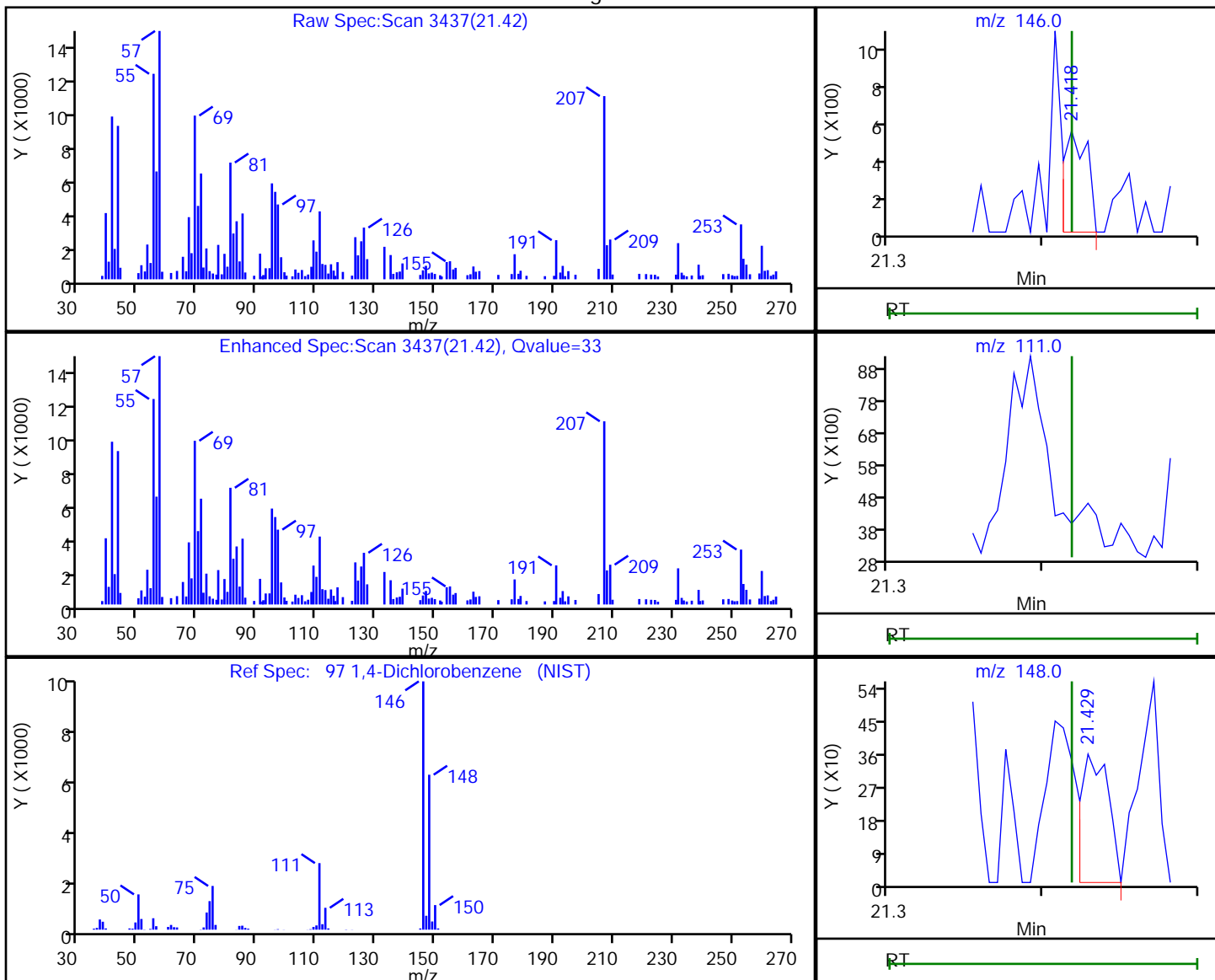
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 544      | 0.002852 |
| 21.43 | 148.00 | 439      |          |
| 21.42 | 111.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:08

Audit Action: Marked Compound Undetected

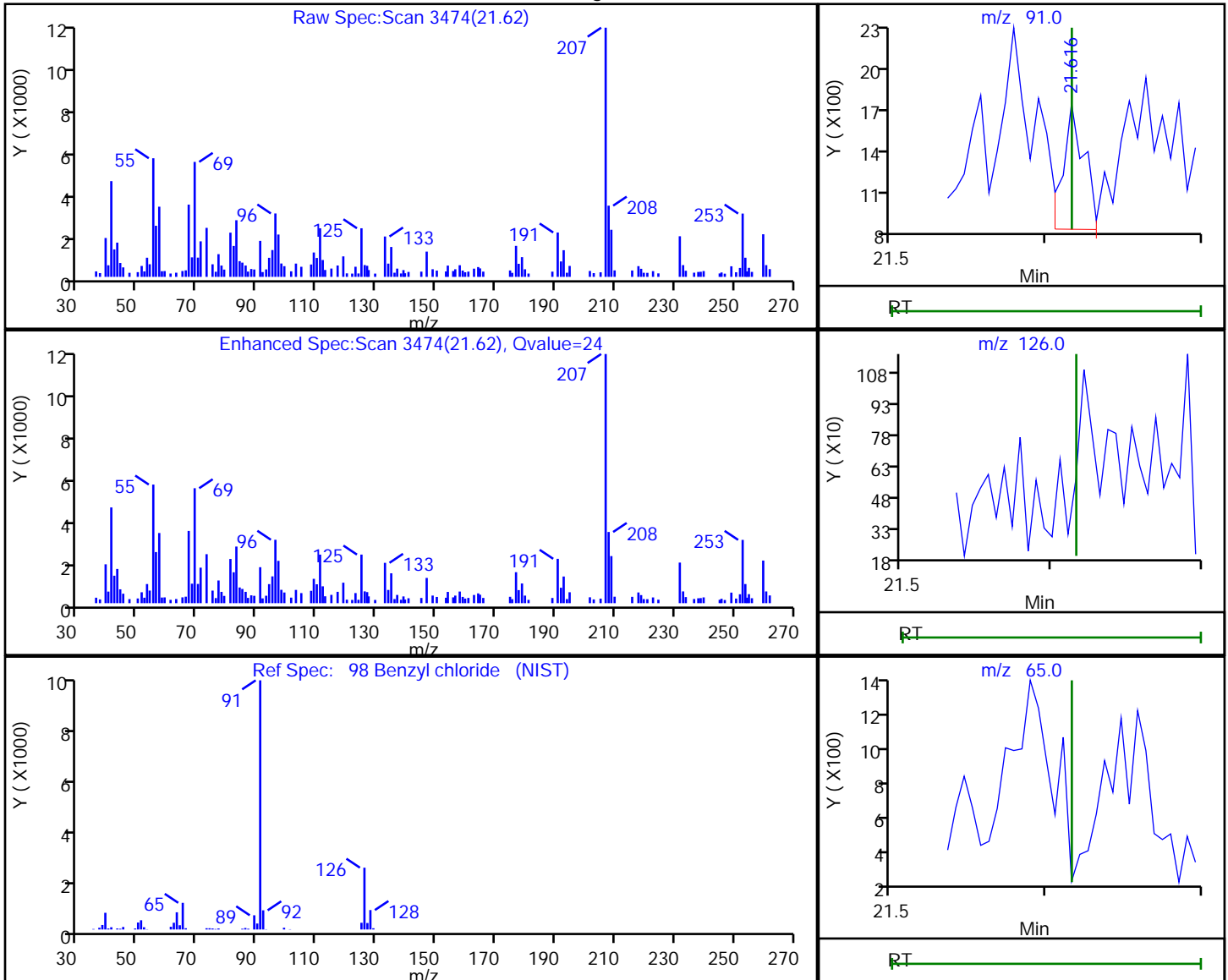
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.62 | 91.00  | 839      | 0.003563 |
| 21.62 | 126.00 | 0        |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:10

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

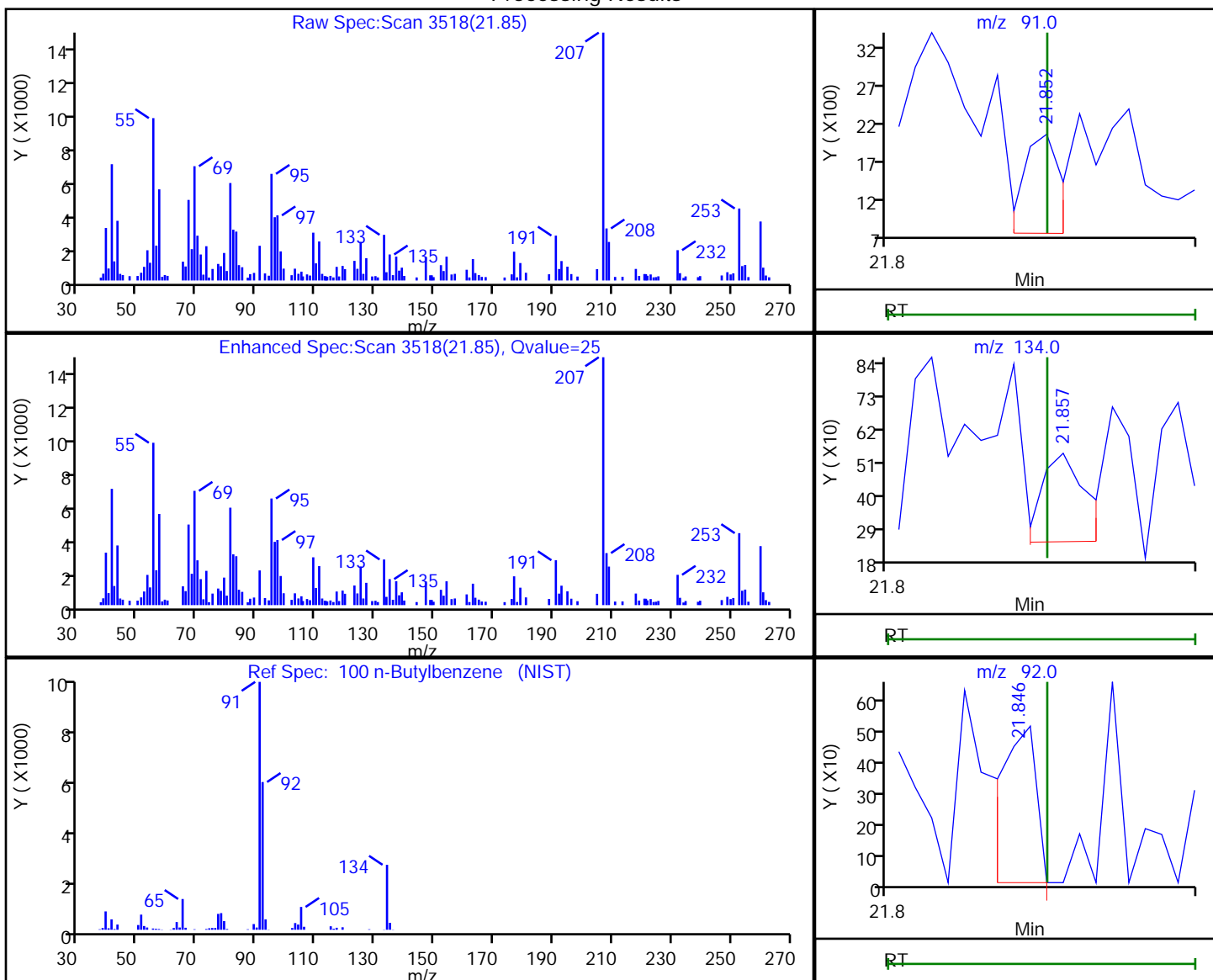


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 1045     | 0.003865 |
| 21.86 | 134.00 | 294      |          |
| 21.85 | 92.00  | 417      |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:12  
 Audit Action: Marked Compound Undetected

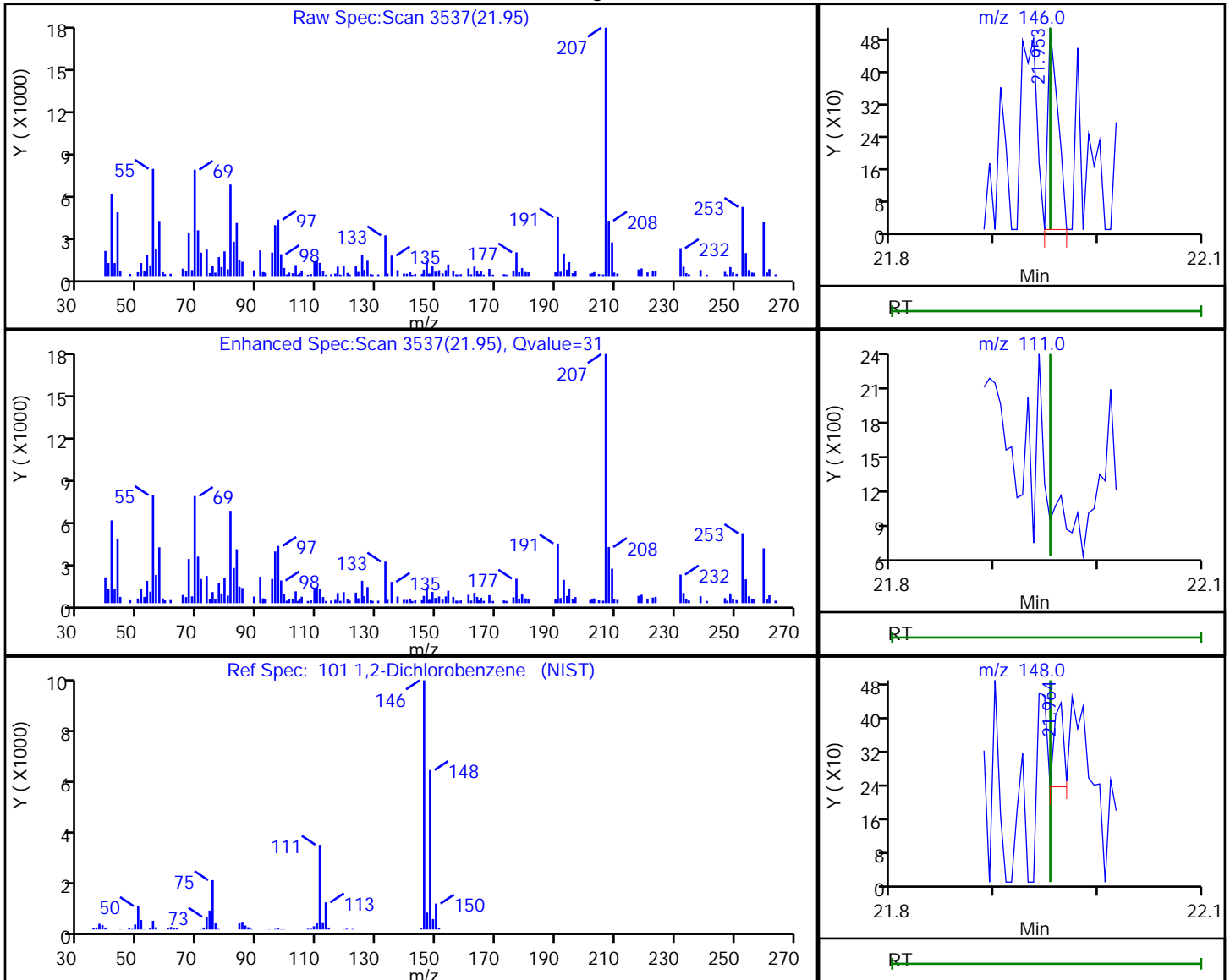
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
 Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
 Client ID: MP-1\_20181120  
 Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
 Purge Vol: 200.000 mL Dil. Factor: 50.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 343      | 0.001871 |
| 21.96 | 148.00 | 125      |          |
| 21.95 | 111.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:15  
 Audit Action: Marked Compound Undetected

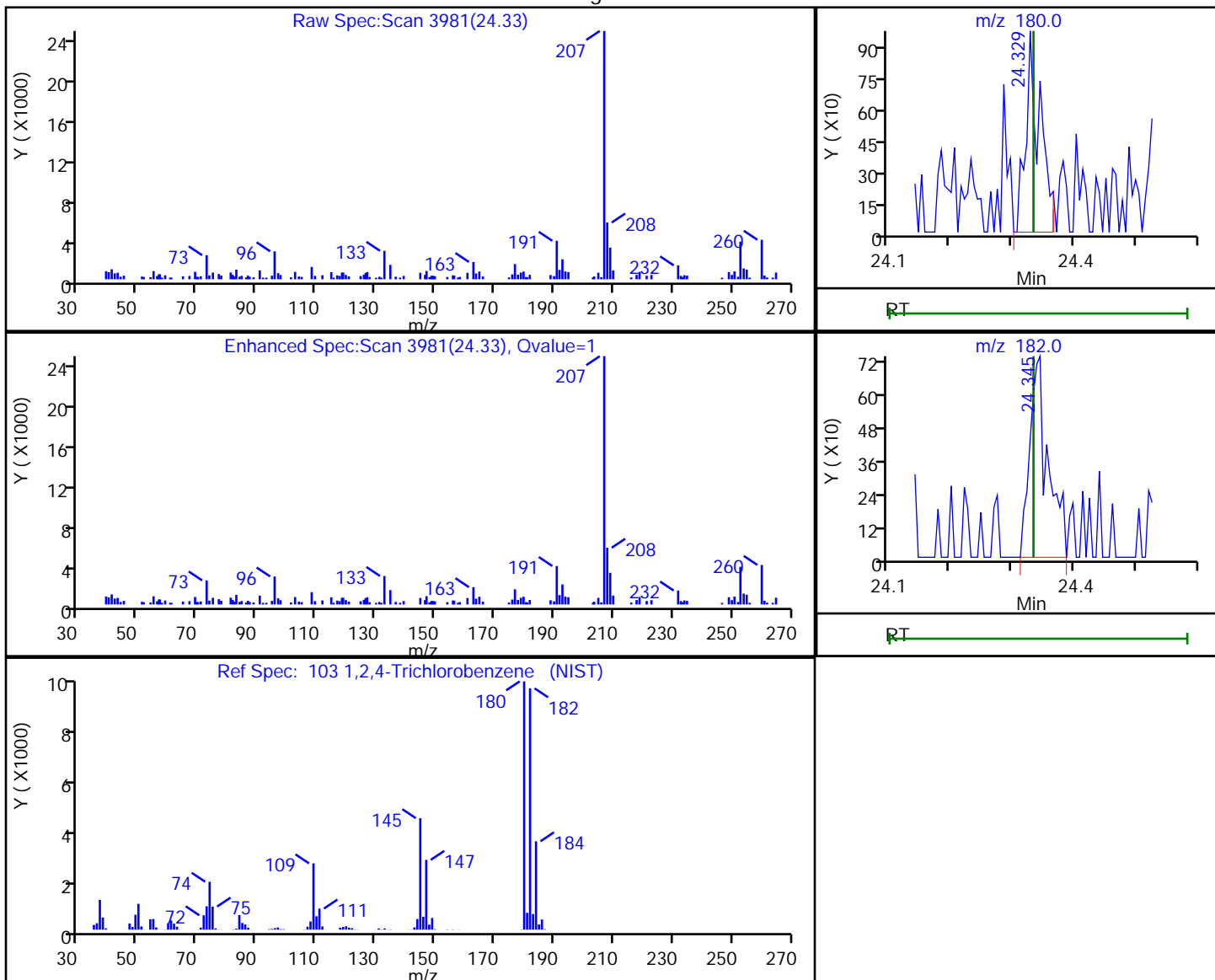
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 1581     | 0.011475 |
| 24.34 | 182.00 | 1514     |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:18

Audit Action: Marked Compound Undetected

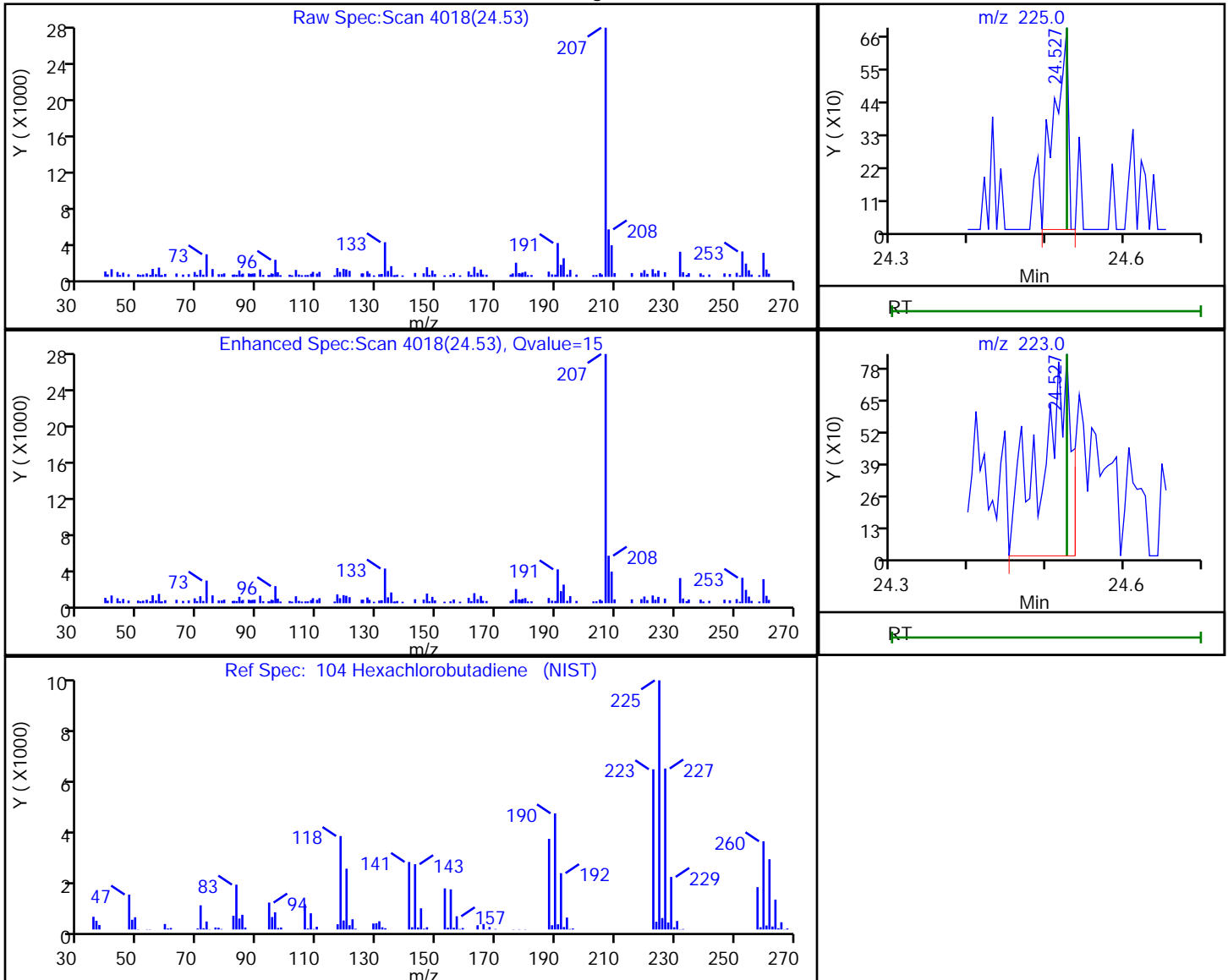
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 852      | 0.006216 |
| 24.53 | 223.00 | 2219     |          |

Reviewer: bunmaa, 07-Dec-2018 09:31:21

Audit Action: Marked Compound Undetected

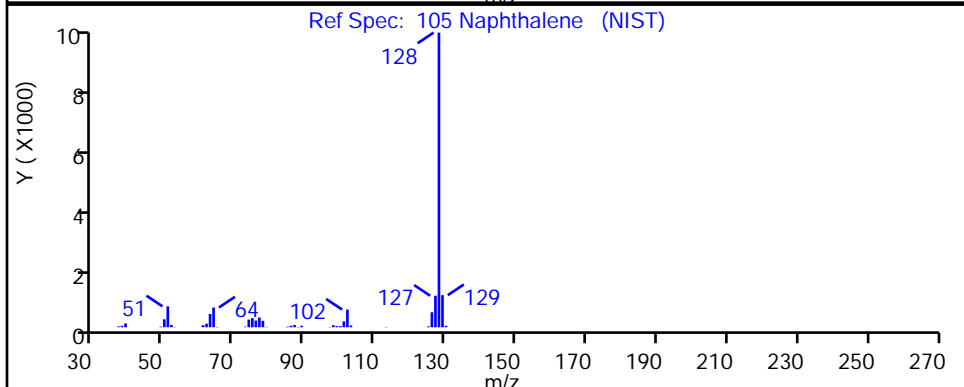
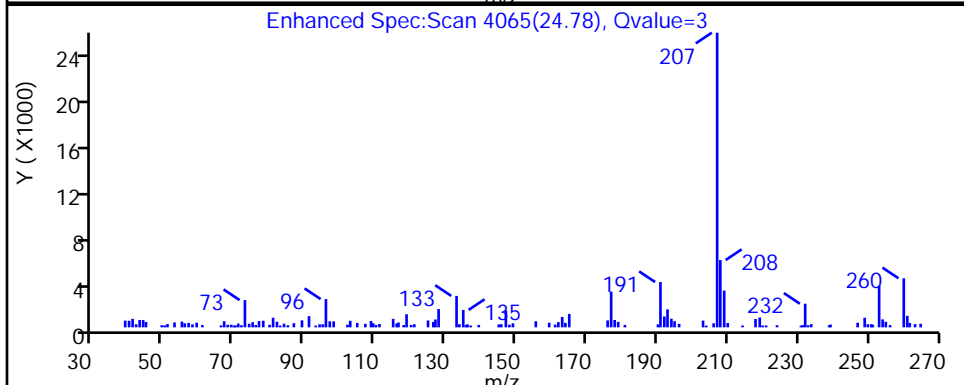
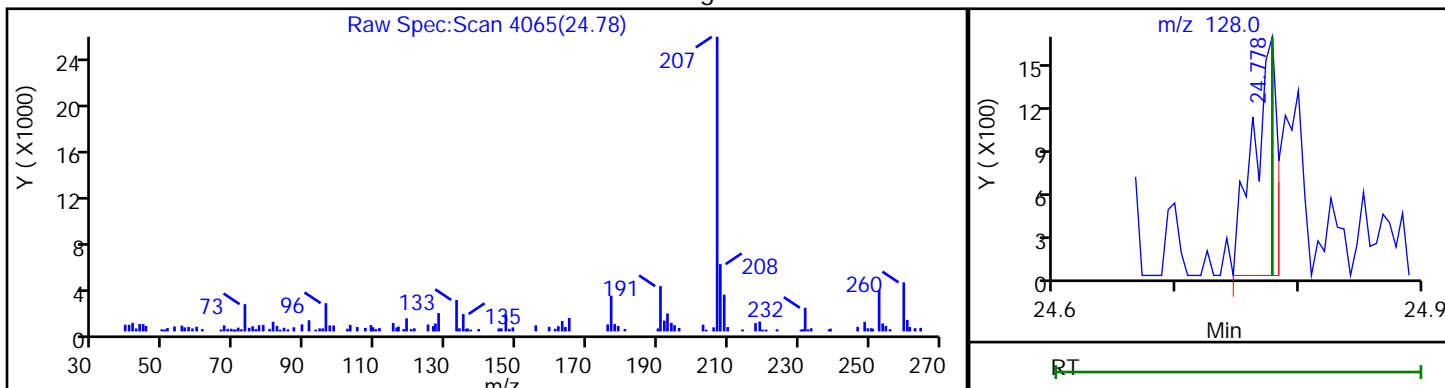
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-023.D  
Injection Date: 06-Dec-2018 08:32:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-7 Lab Sample ID: 200-46353-7  
Client ID: MP-1\_20181120  
Operator ID: ert ALS Bottle#: 23 Worklist Smp#: 23  
Purge Vol: 200.000 mL Dil. Factor: 50.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.78 | 128.00 | 2140     | 0.008011 |

Reviewer: bunmaa, 07-Dec-2018 09:31:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 10     | U | 10   |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 10     | U | 10   |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 4.0    | U | 4.0  |
| 74-87-3   | Chloromethane                    | 50.49            | 10     | U | 10   |
| 106-97-8  | n-Butane                         | 58.12            | 10     | U | 10   |
| 75-01-4   | Vinyl chloride                   | 62.50            | 1.6    | U | 1.6  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 4.0    | U | 4.0  |
| 74-83-9   | Bromomethane                     | 94.94            | 4.0    | U | 4.0  |
| 75-00-3   | Chloroethane                     | 64.52            | 10     | U | 10   |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 4.0    | U | 4.0  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 4.0    | U | 4.0  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 4.0    | U | 4.0  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.70   | U | 0.70 |
| 67-64-1   | Acetone                          | 58.08            | 100    | U | 100  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 100    | U | 100  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 10     | U | 10   |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 10     | U | 10   |
| 75-09-2   | Methylene Chloride               | 84.93            | 10     | U | 10   |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 100    | U | 100  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 4.0    | U | 4.0  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 4.0    | U | 4.0  |
| 110-54-3  | n-Hexane                         | 86.17            | 4.0    | U | 4.0  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 4.0    | U | 4.0  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10     | U | 10   |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 1.0    | U | 1.0  |
| 67-66-3   | Chloroform                       | 119.38           | 4.0    | U | 4.0  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 100    | U | 100  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 4.0    | U | 4.0  |
| 110-82-7  | Cyclohexane                      | 84.16            | 4.0    | U | 4.0  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.70   | U | 0.70 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 4.0    | U | 4.0  |
| 71-43-2   | Benzene                          | 78.11            | 4.0    | U | 4.0  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 4.0    | U | 4.0  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-------------|--|------------------|--------|---|------|--|
| 142-82-5    | n-Heptane  | 100.21           | 4.2    |   | 4.0  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.70   | U | 0.70 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 10     | U | 10   |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 4.0    | U | 4.0  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 100    | U | 100  |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 4.0    | U | 4.0  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 4.0    | U | 4.0  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 10     | U | 10   |  |
| 108-88-3    | Toluene  | 92.14            | 4.0    | U | 4.0  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 4.0    | U | 4.0  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 4.0    | U | 4.0  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 4.0    | U | 4.0  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 10     | U | 10   |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 4.0    | U | 4.0  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 4.0    | U | 4.0  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 4.0    | U | 4.0  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 4.0    | U | 4.0  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 10     | U | 10   |  |
| 95-47-6     | o-Xylene   | 106.17           | 4.0    | U | 4.0  |  |
| 100-42-5    | Styrene  | 104.15           | 4.0    | U | 4.0  |  |
| 75-25-2     | Bromoform  | 252.75           | 4.0    | U | 4.0  |  |
| 98-82-8     | Cumene   | 120.19           | 4.0    | U | 4.0  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 4.0    | U | 4.0  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 4.0    | U | 4.0  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 4.0    | U | 4.0  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 4.0    | U | 4.0  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 4.0    | U | 4.0  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 4.0    | U | 4.0  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 4.0    | U | 4.0  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 4.0    | U | 4.0  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 4.0    | U | 4.0  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 4.0    | U | 4.0  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 4.0    | U | 4.0  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 4.0    | U | 4.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 4.0    | U | 4.0 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 4.0    | U | 4.0 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 10     | U | 10  |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 4.0    | U | 4.0 |  |
| 91-20-3  | Naphthalene            | 128.17           | 10     | U | 10  |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 49     | U | 49  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 35     | U | 35  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 28     | U | 28  |
| 74-87-3   | Chloromethane                    | 50.49            | 21     | U | 21  |
| 106-97-8  | n-Butane                         | 58.12            | 24     | U | 24  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 4.0    | U | 4.0 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 8.8    | U | 8.8 |
| 74-83-9   | Bromomethane                     | 94.94            | 16     | U | 16  |
| 75-00-3   | Chloroethane                     | 64.52            | 26     | U | 26  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 17     | U | 17  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 22     | U | 22  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 31     | U | 31  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 2.8    | U | 2.8 |
| 67-64-1   | Acetone                          | 58.08            | 240    | U | 240 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 250    | U | 250 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 31     | U | 31  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 31     | U | 31  |
| 75-09-2   | Methylene Chloride               | 84.93            | 35     | U | 35  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 300    | U | 300 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 14     | U | 14  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 16     | U | 16  |
| 110-54-3  | n-Hexane                         | 86.17            | 14     | U | 14  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 16     | U | 16  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 29     | U | 29  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 4.0    | U | 4.0 |
| 67-66-3   | Chloroform                       | 119.38           | 20     | U | 20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 290    | U | 290 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 22     | U | 22  |
| 110-82-7  | Cyclohexane                      | 84.16            | 14     | U | 14  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 4.4    | U | 4.4 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 19     | U | 19  |
| 71-43-2   | Benzene                          | 78.11            | 13     | U | 13  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 16     | U | 16  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|-------------|--|------------------|--------|---|-----|--|
| 142-82-5    | n-Heptane  | 100.21           | 17     |   | 16  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 3.8    | U | 3.8 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 41     | U | 41  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 18     | U | 18  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 360    | U | 360 |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 27     | U | 27  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 18     | U | 18  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 41     | U | 41  |  |
| 108-88-3    | Toluene  | 92.14            | 15     | U | 15  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 18     | U | 18  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 22     | U | 22  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 27     | U | 27  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 41     | U | 41  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 34     | U | 34  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 31     | U | 31  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 18     | U | 18  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 17     | U | 17  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 43     | U | 43  |  |
| 95-47-6     | o-Xylene   | 106.17           | 17     | U | 17  |  |
| 100-42-5    | Styrene  | 104.15           | 17     | U | 17  |  |
| 75-25-2     | Bromoform  | 252.75           | 41     | U | 41  |  |
| 98-82-8     | Cumene   | 120.19           | 20     | U | 20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 27     | U | 27  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 20     | U | 20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 20     | U | 20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 20     | U | 20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 21     | U | 21  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 22     | U | 22  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 20     | U | 20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 22     | U | 22  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 22     | U | 22  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 24     | U | 24  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 24     | U | 24  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL |  |
|----------|------------------------|------------------|--------|---|----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 21     | U | 21 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 22     | U | 22 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 24     | U | 24 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 74     | U | 74 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 43     | U | 43 |  |
| 91-20-3  | Naphthalene            | 128.17           | 52     | U | 52 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Lims ID: 200-46353-A-8  
 Client ID: MP-2\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 09:23:30 ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Sample Info: 200-0033531-024  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:38:44 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: guazzonig

Date: 06-Dec-2018 13:43:50

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011        | 95  | 9313     | 0.0451            |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |               |     |          | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.337         | -0.011        | 92  | 5450     | 0.0351            |       |
| 5 Chloromethane               | 50  |           | 3.465         |               |     |          | ND                |       |
| 6 Butane                      | 43  | 3.593     | 3.598         | -0.011        | 88  | 12390    | 0.2293            |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |               |     |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.711         |               |     |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |               |     |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |               |     |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |               |     |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.765     | 4.754         | 0.005         | 82  | 9979     | 0.0612            | M     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.605         |               |     |          | ND                |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |               |     |          | ND                | U     |
| 22 Acetone                    | 43  | 5.883     | 5.853         | 0.027         | 100 | 48357    | 1.12              |       |
| 23 Carbon disulfide           | 76  | 6.022     | 6.001         | 0.005         | 49  | 2934     | 0.0226            |       |
| 24 Isopropyl alcohol          | 45  |           | 6.097         |               |     |          | ND                | Ua    |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |               |     |          | ND                | U     |
| 27 Methylene Chloride         | 49  |           | 6.557         |               |     |          | ND                | Ua    |
| 28 2-Methyl-2-propanol        | 59  | 6.819     | 6.819         | 0.048         | 83  | 9298     | 0.1278            | M     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |               |     |          | ND                | U     |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |               |     |          | ND                | U     |
| 33 Hexane                     | 57  |           | 7.279         |               |     |          | ND                | U     |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |               |     |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |               |     |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  |           | 8.793         |               |     |          | ND                | U     |
| * 40 Chlorobromomethane       | 128 | 9.146     | 9.152         | -0.006        | 73  | 553071   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |               |     |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.259     | 9.275         | -0.010        | 51  | 5971     | 0.0517            | M     |
| 43 Cyclohexane                | 84  | 9.531     | 9.531         | 0.000         | 69  | 3301     | 0.0573            | M     |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |               |     |          | ND                |       |
| 45 Carbon tetrachloride       | 117 |           | 9.783         |               |     |          | ND                |       |
| 46 Isooctane                  | 57  | 10.189    | 10.189        | -0.006        | 60  | 3587     | 0.0188            | M     |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|----------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  |           | 10.216        |                |    |          | ND                | U     |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |                |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.559        | -0.006         | 91 | 14307    | 0.2080            | M     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006         | 93 | 2510211  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |                |    |          | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |                |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |                |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |                |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |                |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |                |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |                |    |          | ND                | U     |
| 65 Toluene                     | 92  | 14.068    | 14.068        | 0.000          | 92 | 14908    | 0.1404            | M     |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |                |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |                |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.127    | 15.143        | -0.016         | 92 | 7769     | 0.0611            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |                |    |          | ND                | MU    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |                |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |                |    |          | ND                | U     |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957        | -0.006         | 84 | 2621499  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |                |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  |           | 17.182        |                |    |          | ND                | U     |
| 78 m-Xylene & p-Xylene         | 106 |           | 17.433        |                |    |          | ND                | U     |
| 79 o-Xylene                    | 106 |           | 18.294        |                |    |          | ND                | MU    |
| 80 Styrene                     | 104 |           | 18.337        |                |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781        |                |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.049        |                |    |          | ND                | U     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |                |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.846        |                |    |          | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |                |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.054        |                |    |          | ND                | U     |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.167        | -0.005         | 43 | 6353     | 0.0272            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |                |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.803    | 20.803        | 0.005          | 45 | 3630     | 0.0157            | a     |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |                |    |          | ND                | MU    |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |                |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |                |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.418        |                |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |                |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |                |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |                |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |                |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |                |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.778        |                |    |          | ND                | U     |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D

Injection Date: 06-Dec-2018 09:23:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-8

Lab Sample ID: 200-46353-8

Worklist Smp#: 24

Client ID: MP-2\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 20.0000

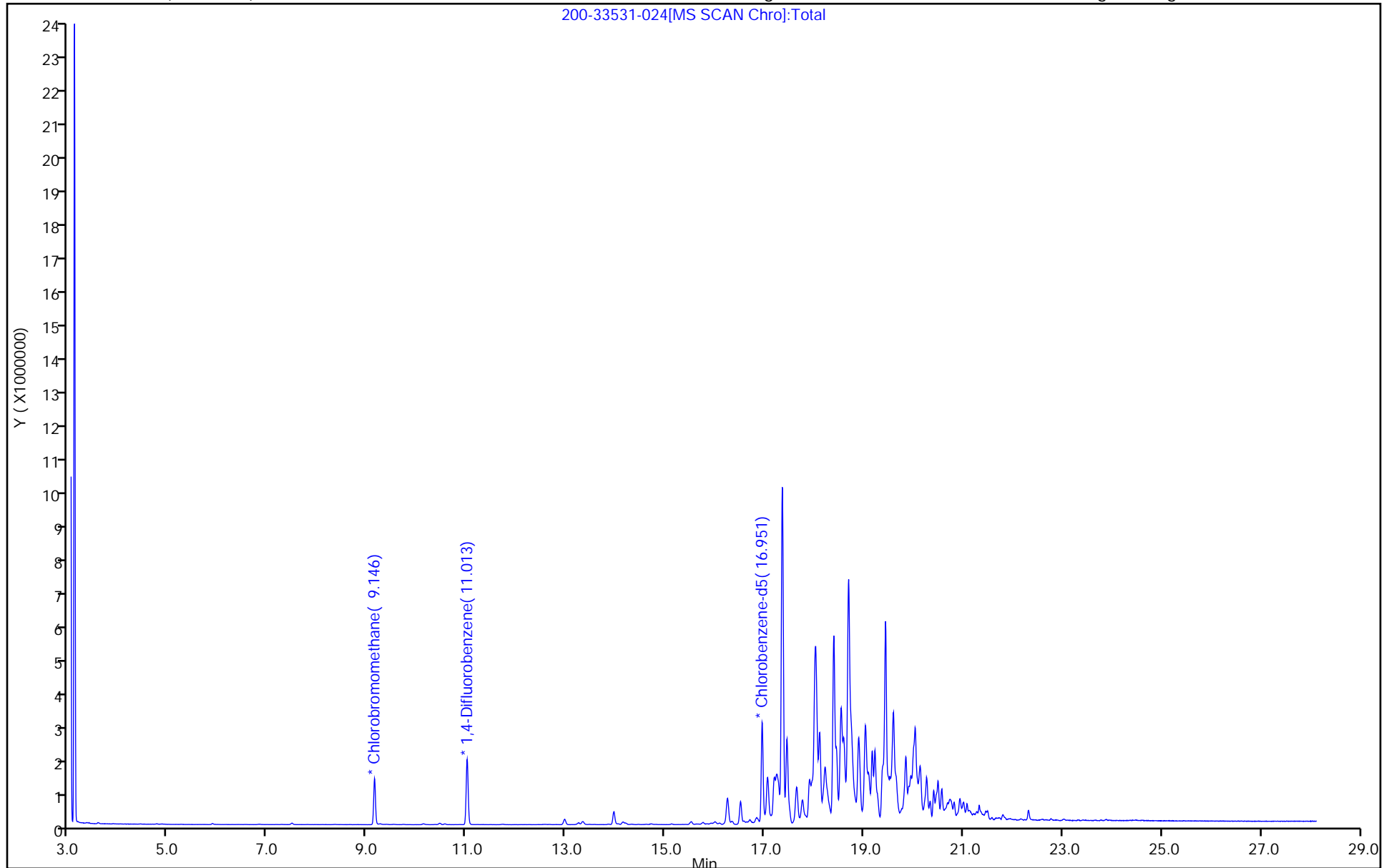
ALS Bottle#: 24

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D

Injection Date: 06-Dec-2018 09:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-8

Lab Sample ID: 200-46353-8

Client ID: MP-2\_20181120

Operator ID: ert

ALS Bottle#: 24 Worklist Smp#: 24

Purge Vol: 200.000 mL

Dil. Factor: 20.0000

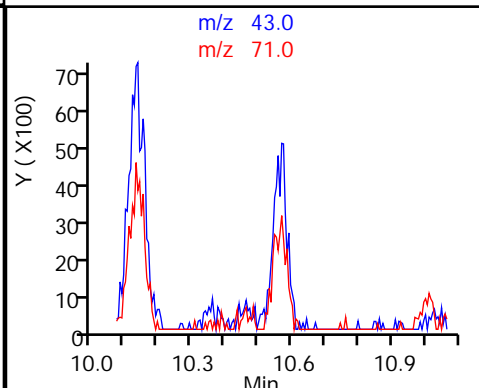
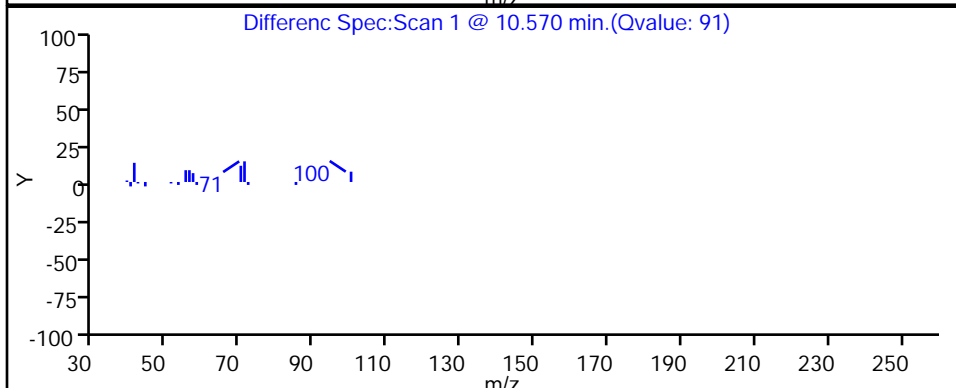
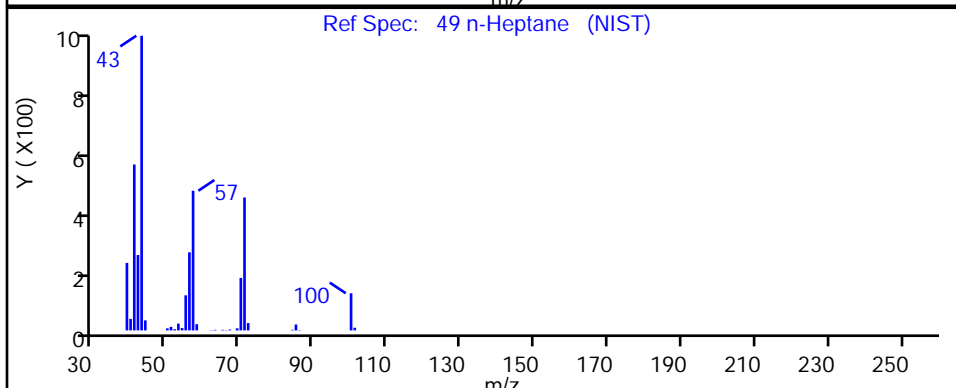
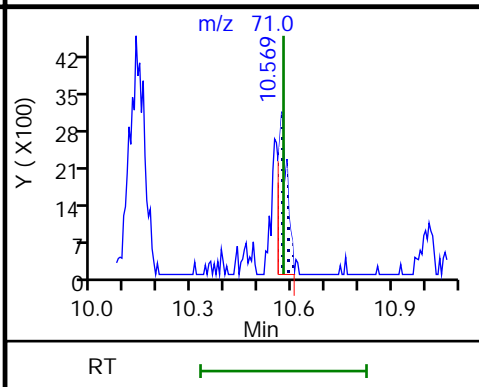
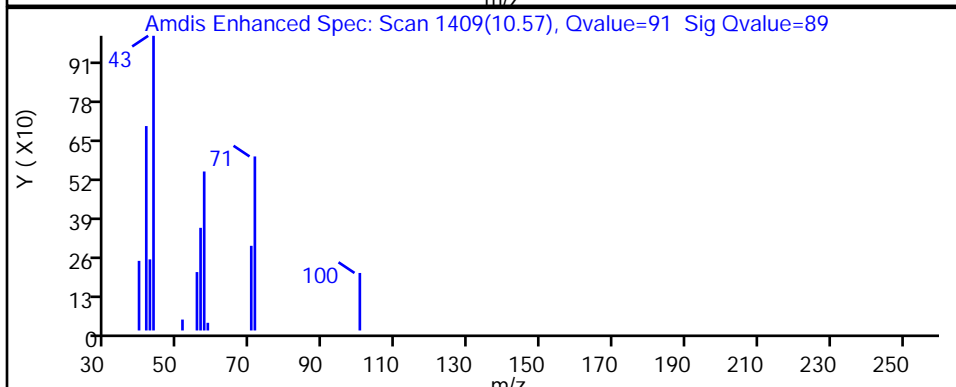
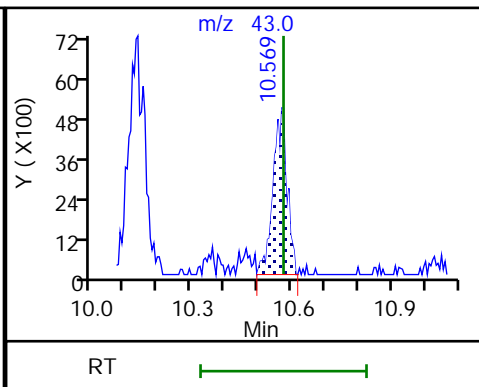
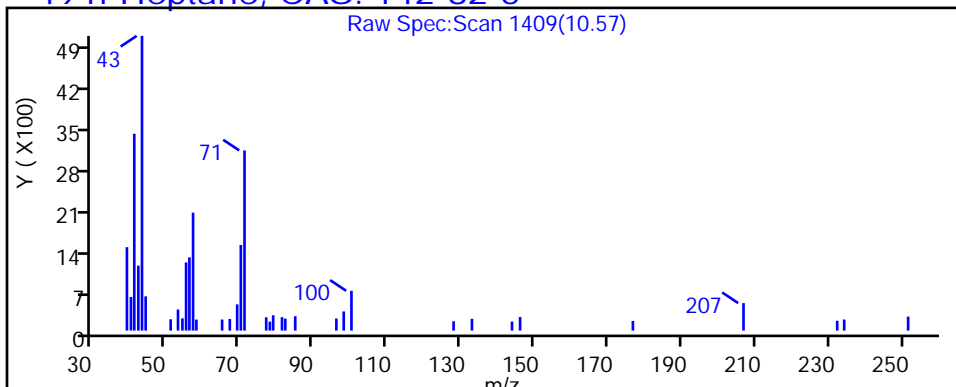
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



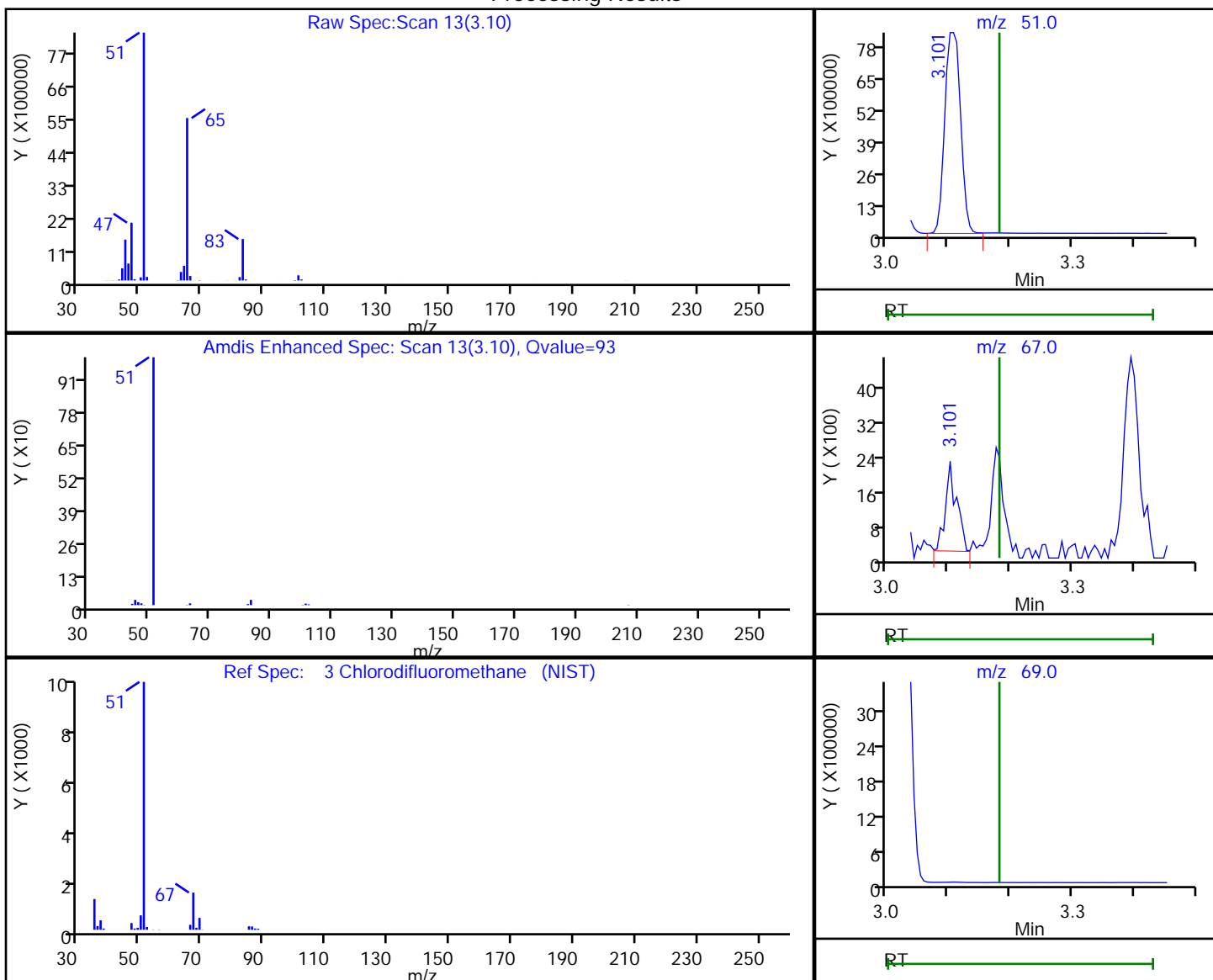


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.10 | 51.00 | 15035514 | 171.1755 |
| 3.10 | 67.00 | 2643     |          |
| 3.18 | 69.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:41:20  
 Audit Action: Marked Compound Undetected

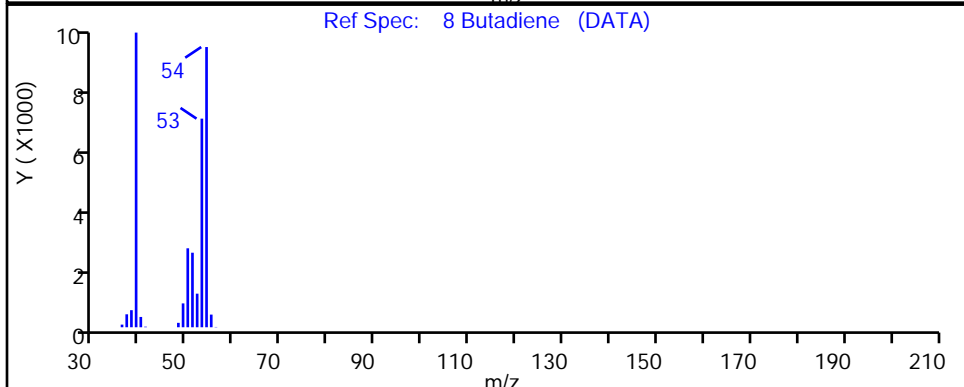
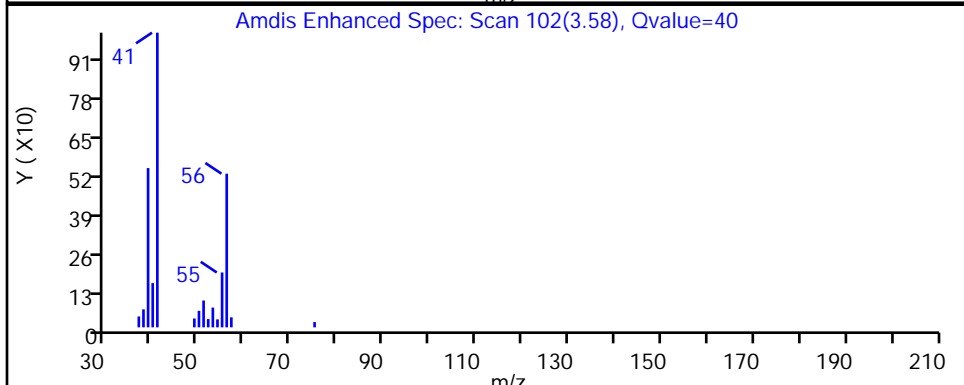
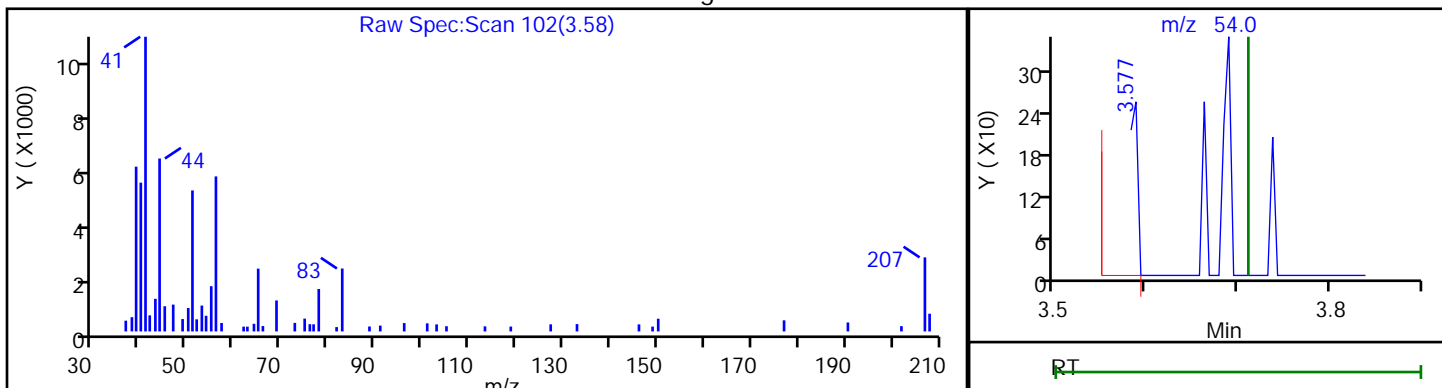
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.58 | 54.00 | 567      | 0.018857 |

Reviewer: guazzonig, 06-Dec-2018 13:41:35  
Audit Action: Marked Compound Undetected

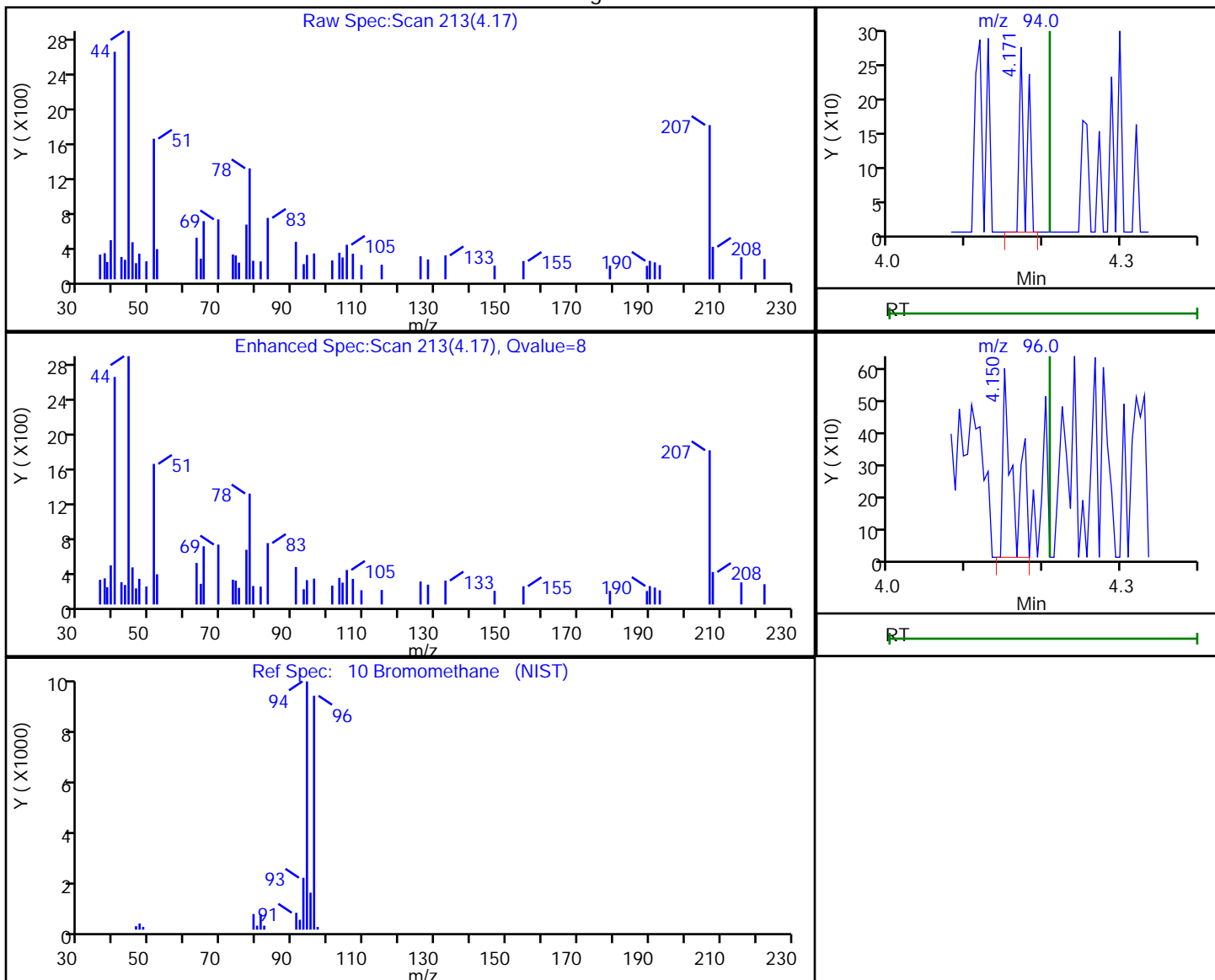
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.17 | 94.00 | 164      | 0.002939 |
| 4.15 | 96.00 | 582      |          |

Reviewer: bunmaa, 07-Dec-2018 09:32:29

Audit Action: Marked Compound Undetected

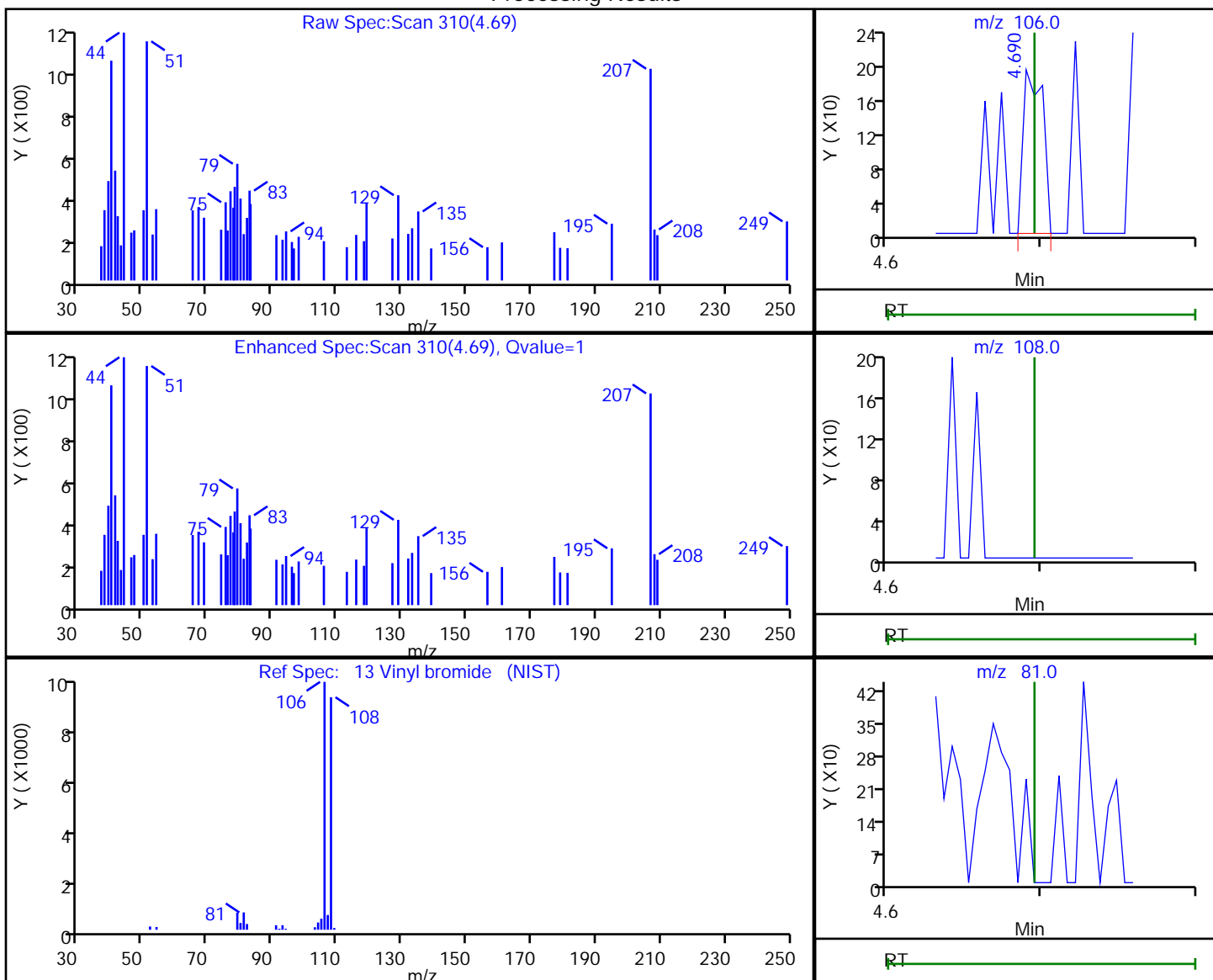
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.69 | 106.00 | 167      | 0.003027 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:32:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

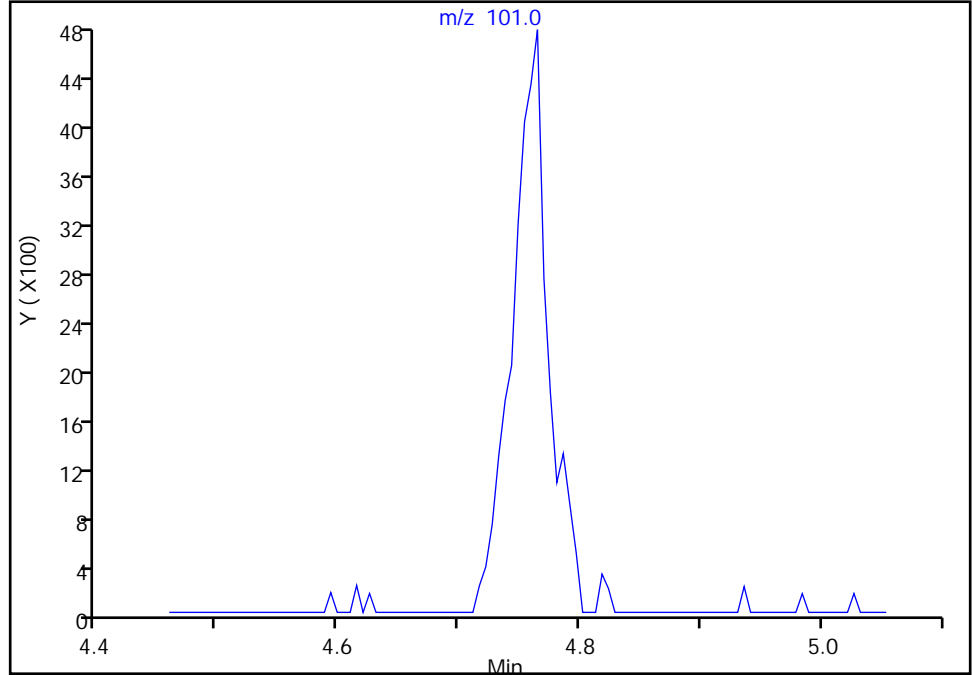
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Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

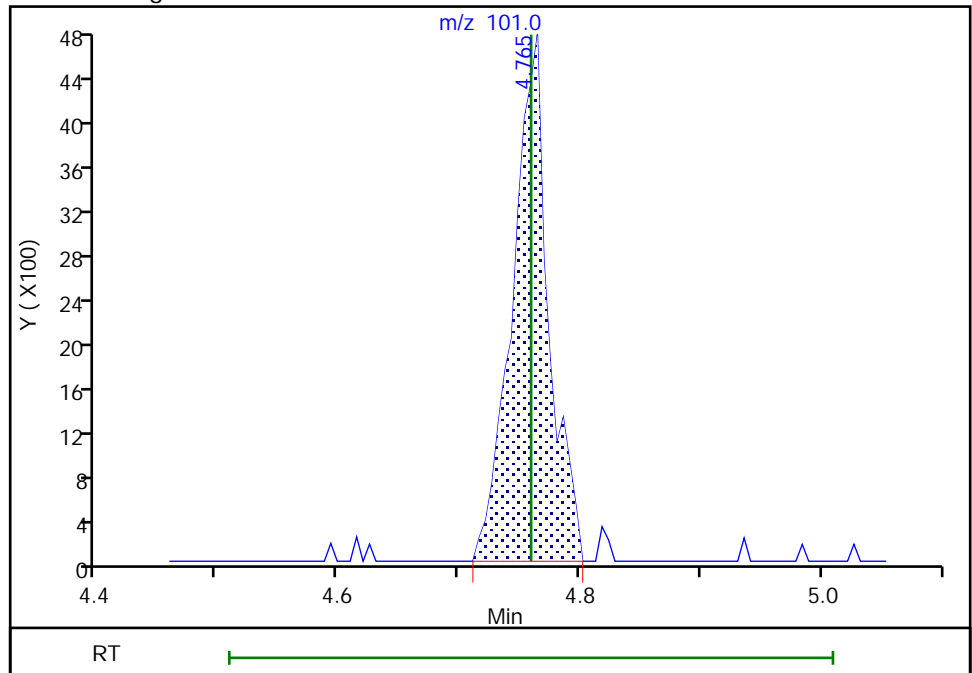
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.76  
Area: 9979  
Amount: 0.061198  
Amount Units: ppb v/v

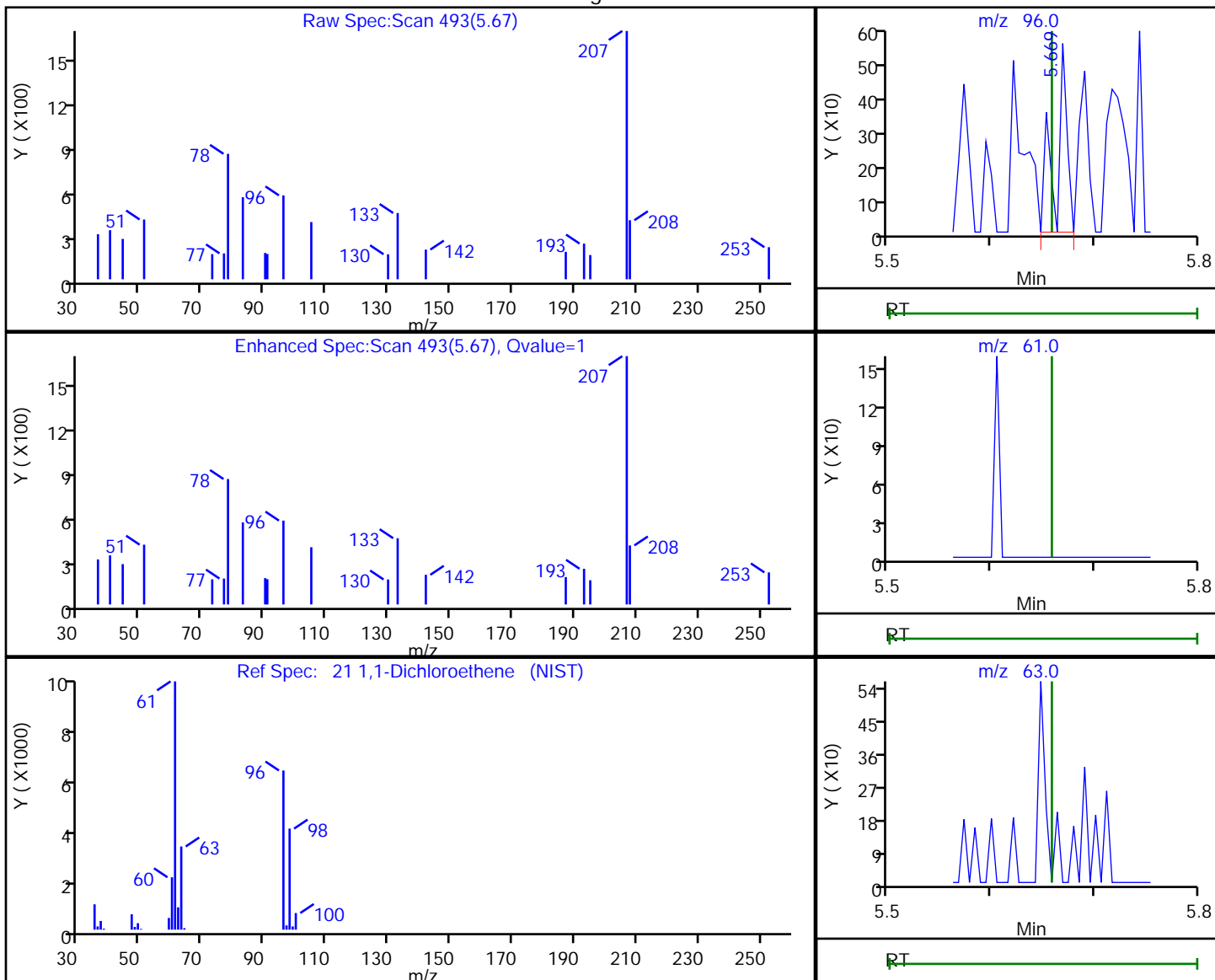


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.67 | 96.00 | 416      | 0.008228 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:41:55  
 Audit Action: Marked Compound Undetected

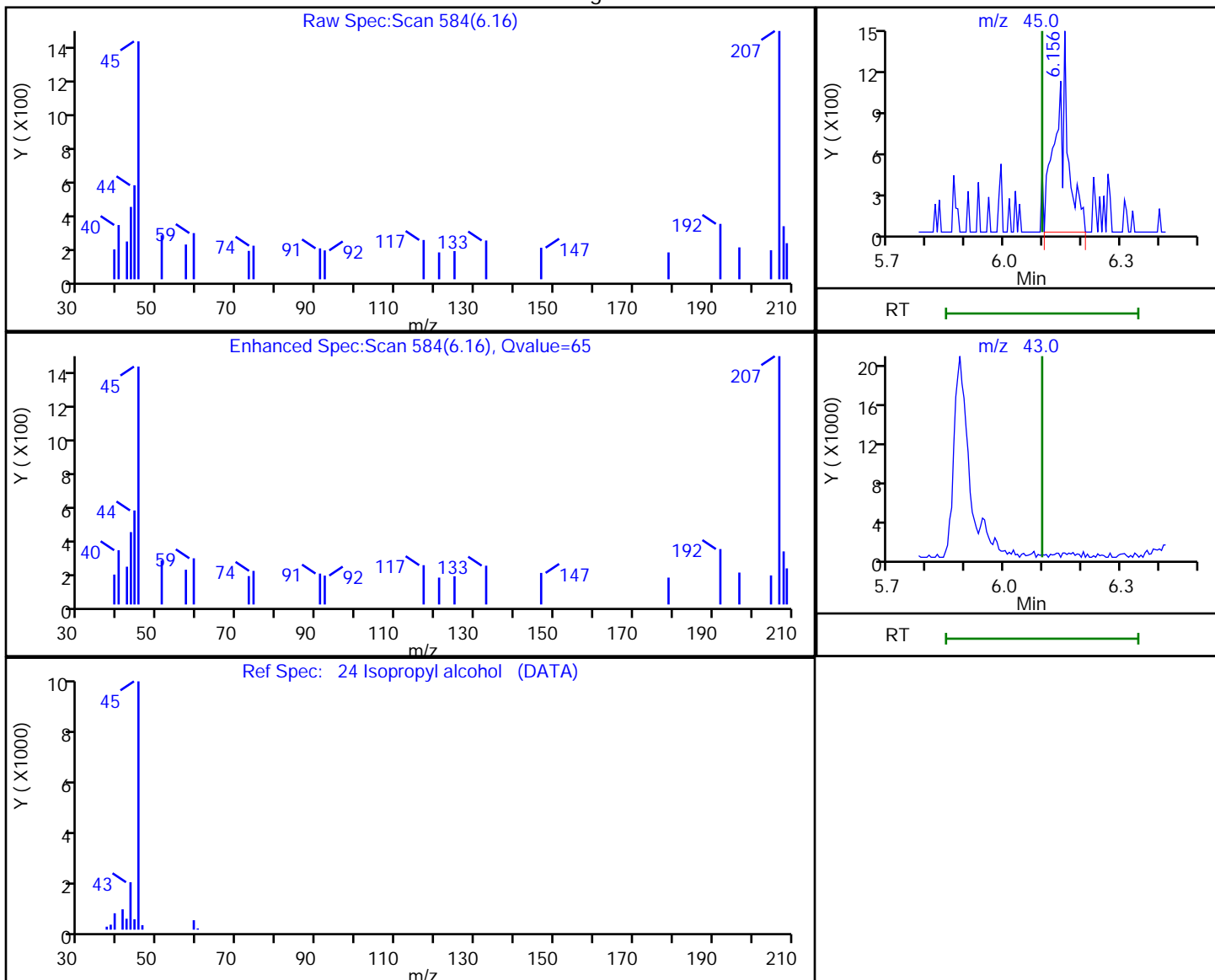
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.16 | 45.00 | 3049     | 0.064081 |
| 6.10 | 43.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:32:59

Audit Action: Marked Compound Undetected

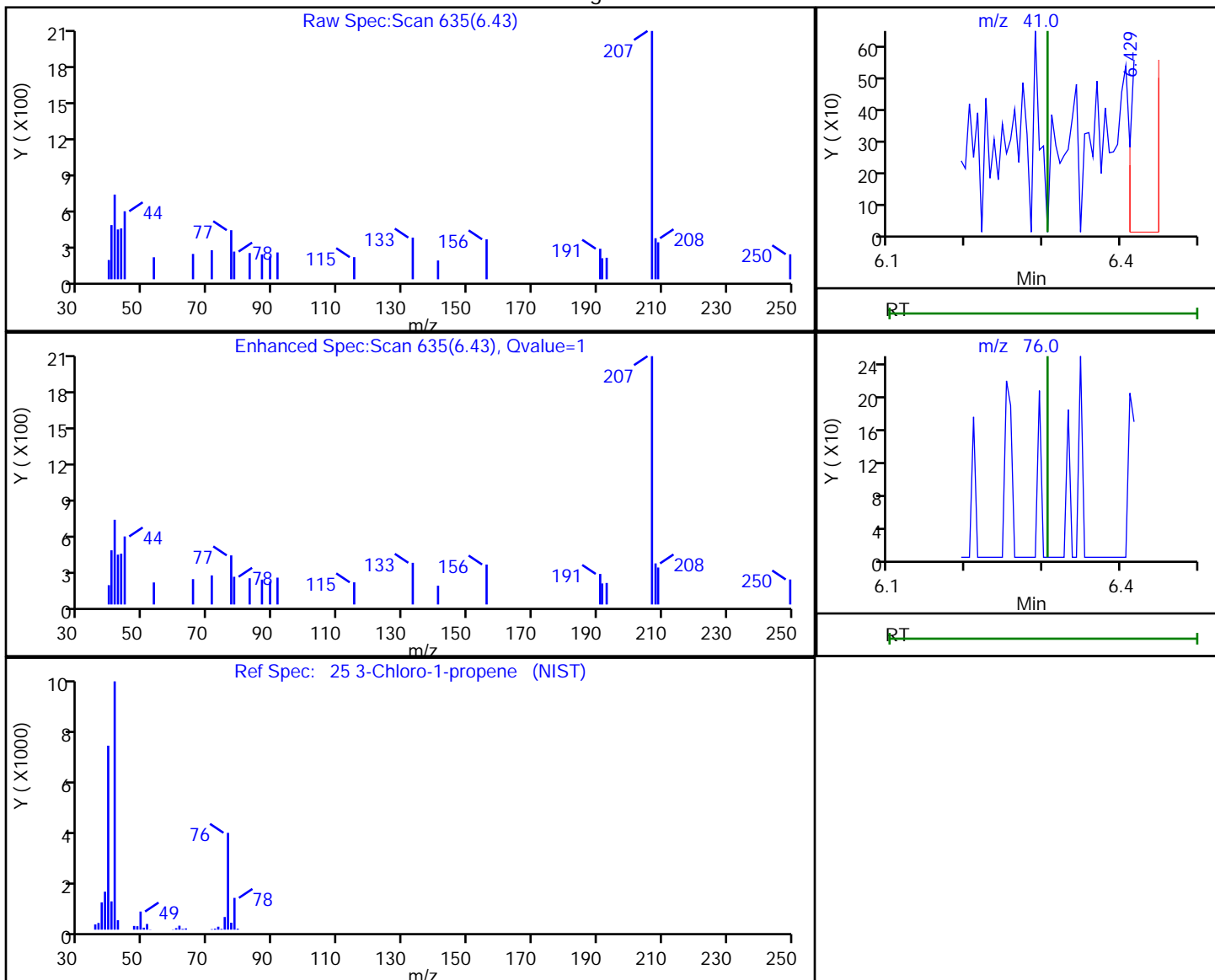
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.43 | 41.00 | 1198     | 0.031849 |
| 6.31 | 76.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:33:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

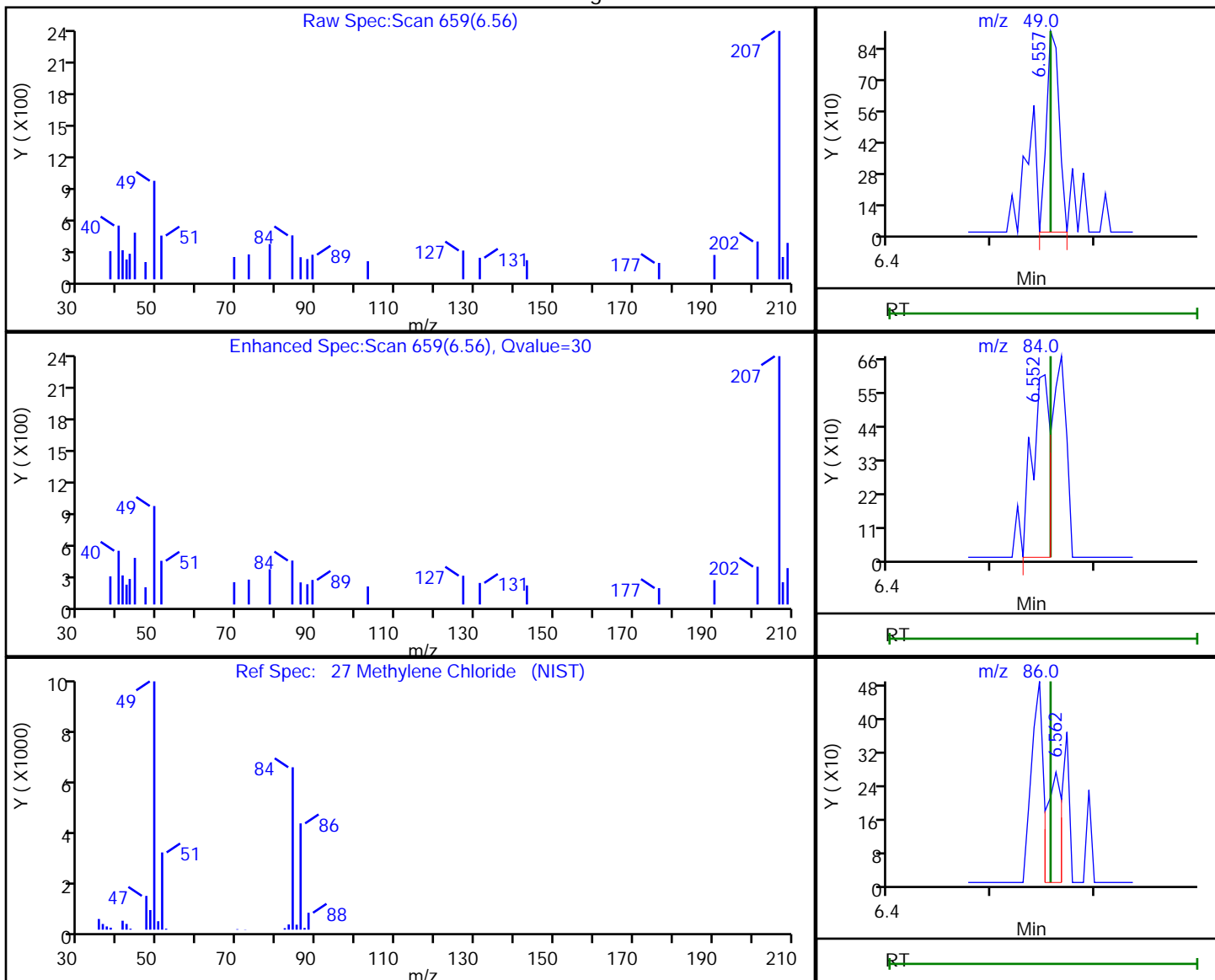


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.56 | 49.00 | 779      | 0.017073 |
| 6.55 | 84.00 | 728      |          |
| 6.56 | 86.00 | 271      |          |

Reviewer: bunmaa, 07-Dec-2018 09:33:15  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

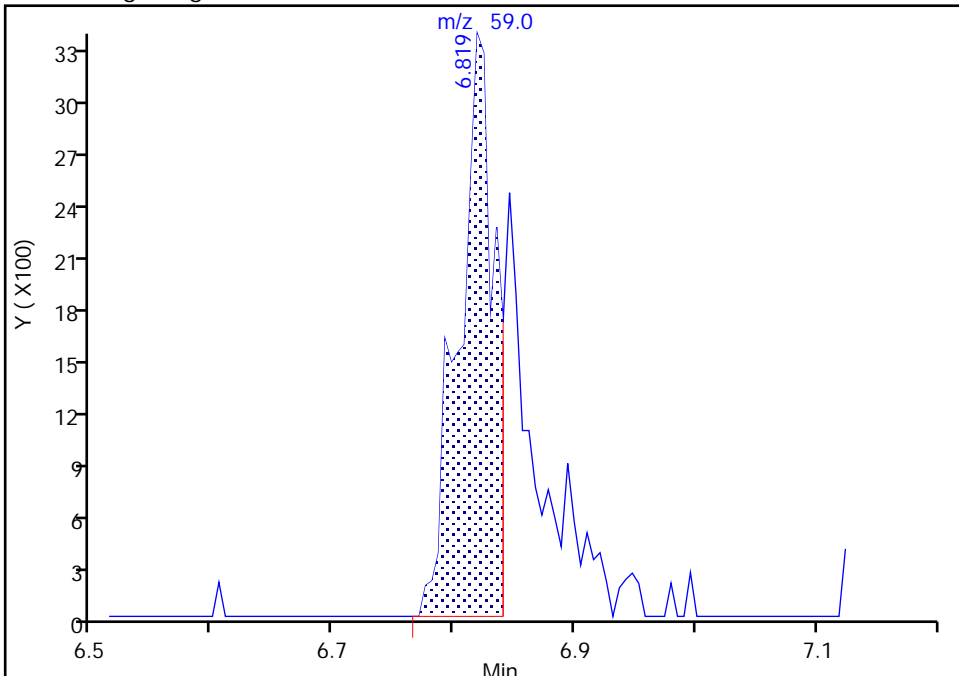
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Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

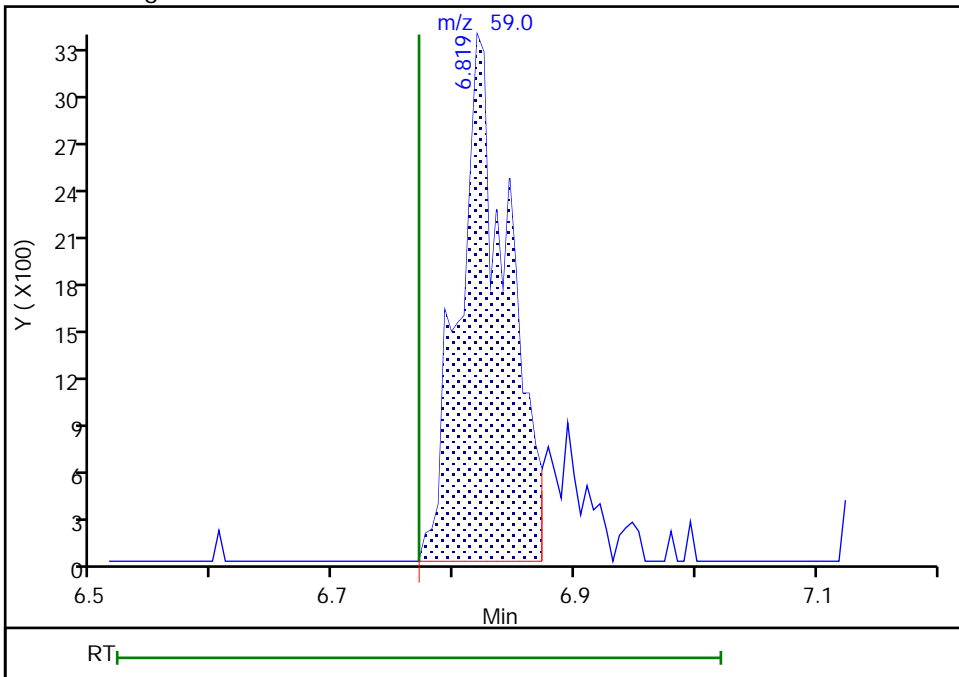
RT: 6.82  
Area: 6845  
Amount: 0.094096  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.82  
Area: 9298  
Amount: 0.127817  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:33:40  
Audit Action: Manually Integrated

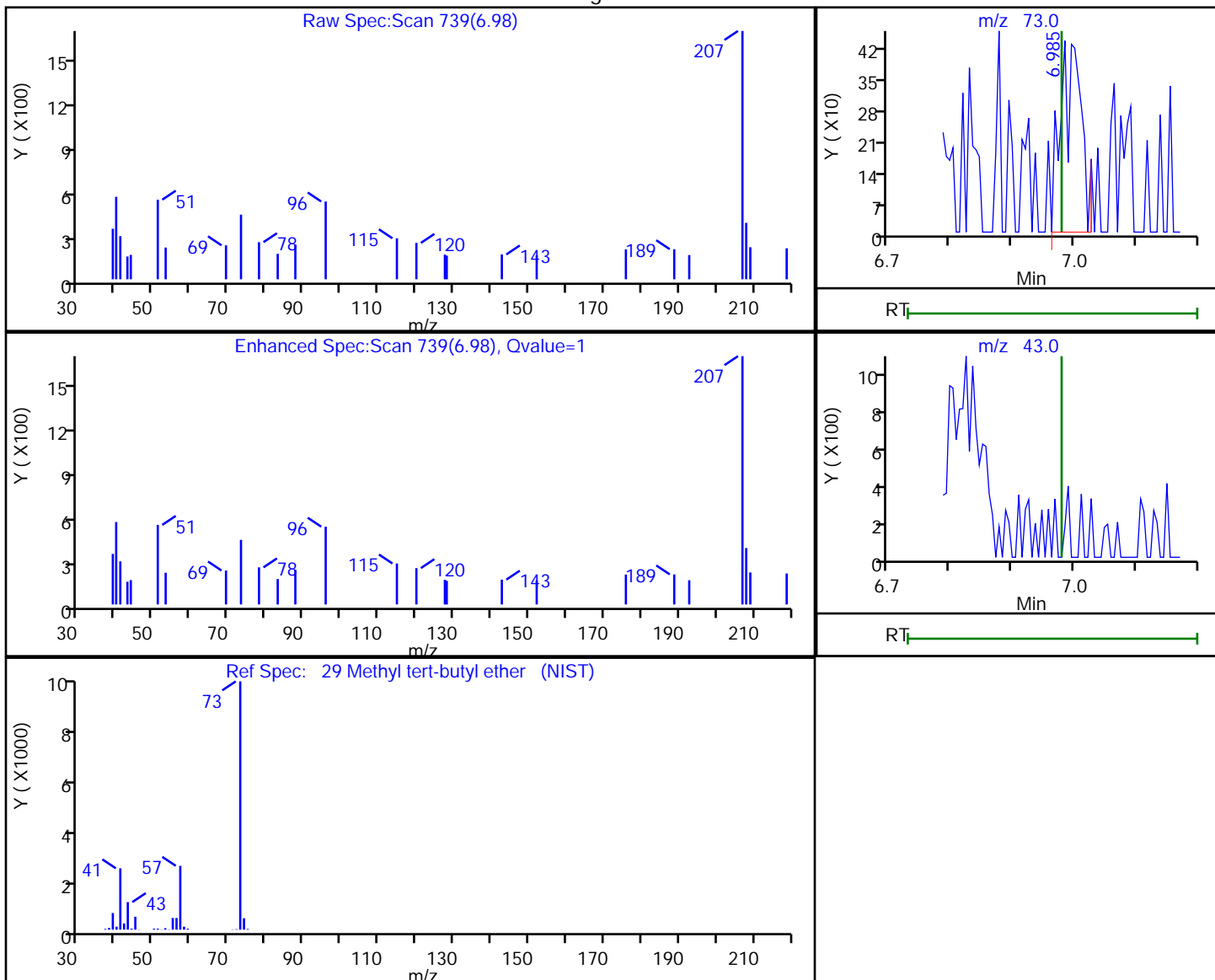
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.98 | 73.00 | 1009     | 0.010266 |
| 6.98 | 43.00 | 0        |          |

Reviewer: guazonig, 06-Dec-2018 13:42:13  
Audit Action: Marked Compound Undetected

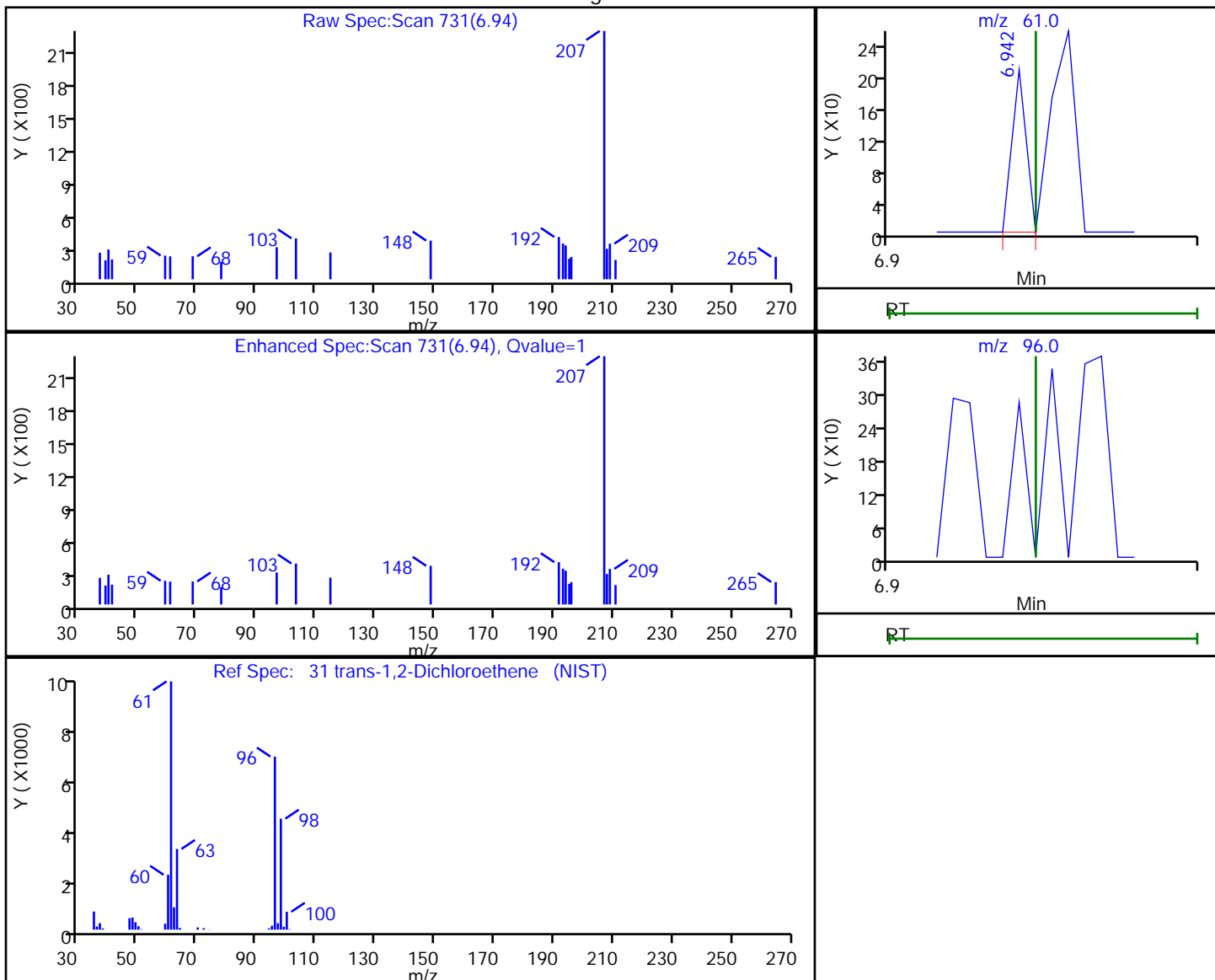
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.94 | 61.00 | 65       | 0.001061 |
| 6.95 | 96.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:42:11  
 Audit Action: Marked Compound Undetected

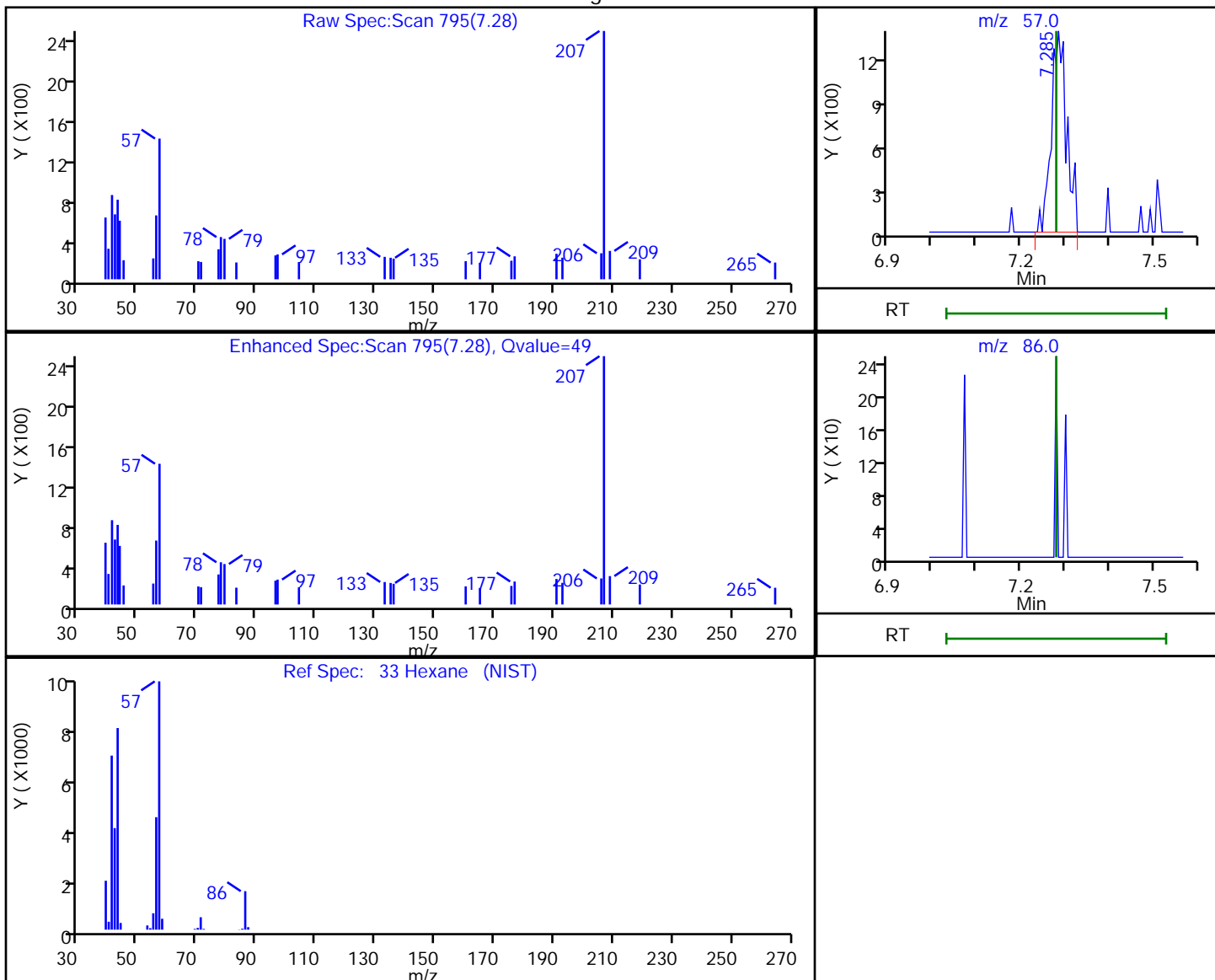
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

33 Hexane, CAS: 110-54-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.28 | 57.00 | 3298     | 0.067543 |
| 7.28 | 86.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:33:56  
Audit Action: Marked Compound Undetected

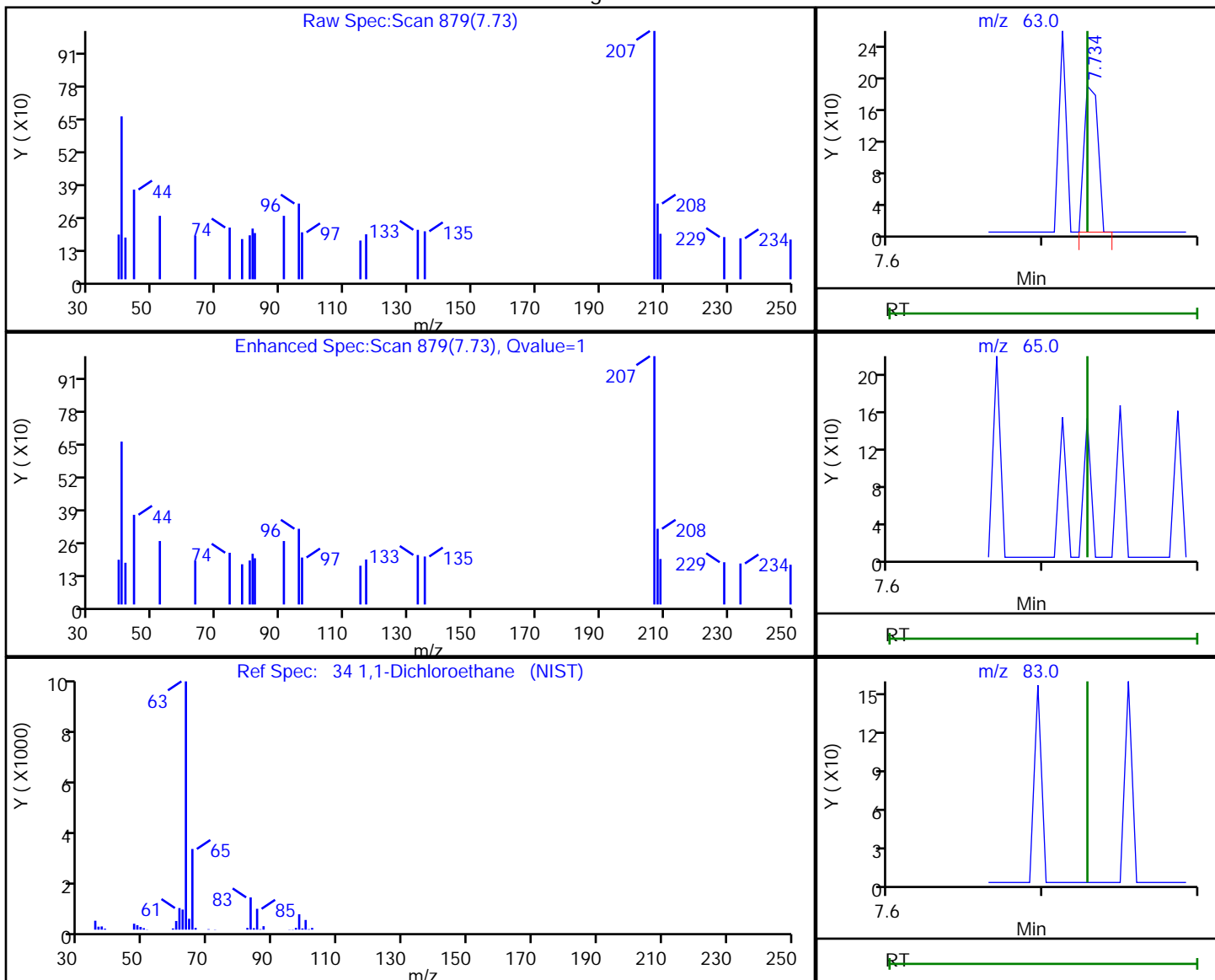
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.73 | 63.00 | 116      | 0.001467 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:33:59

Audit Action: Marked Compound Undetected

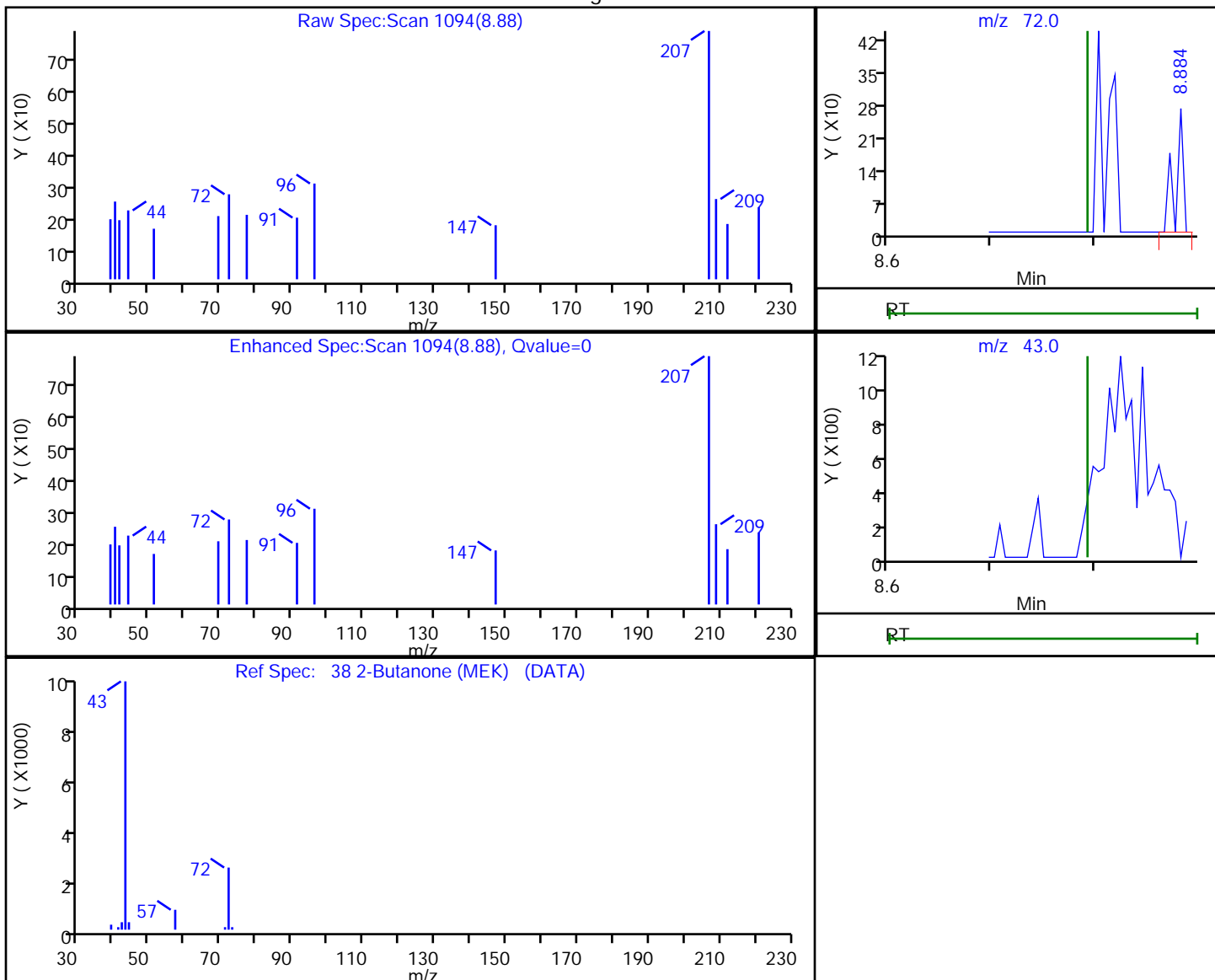
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.88 | 72.00 | 142      | 0.009190 |
| 8.86 | 43.00 | 1589     |          |

Reviewer: bunmaa, 07-Dec-2018 09:34:04

Audit Action: Marked Compound Undetected

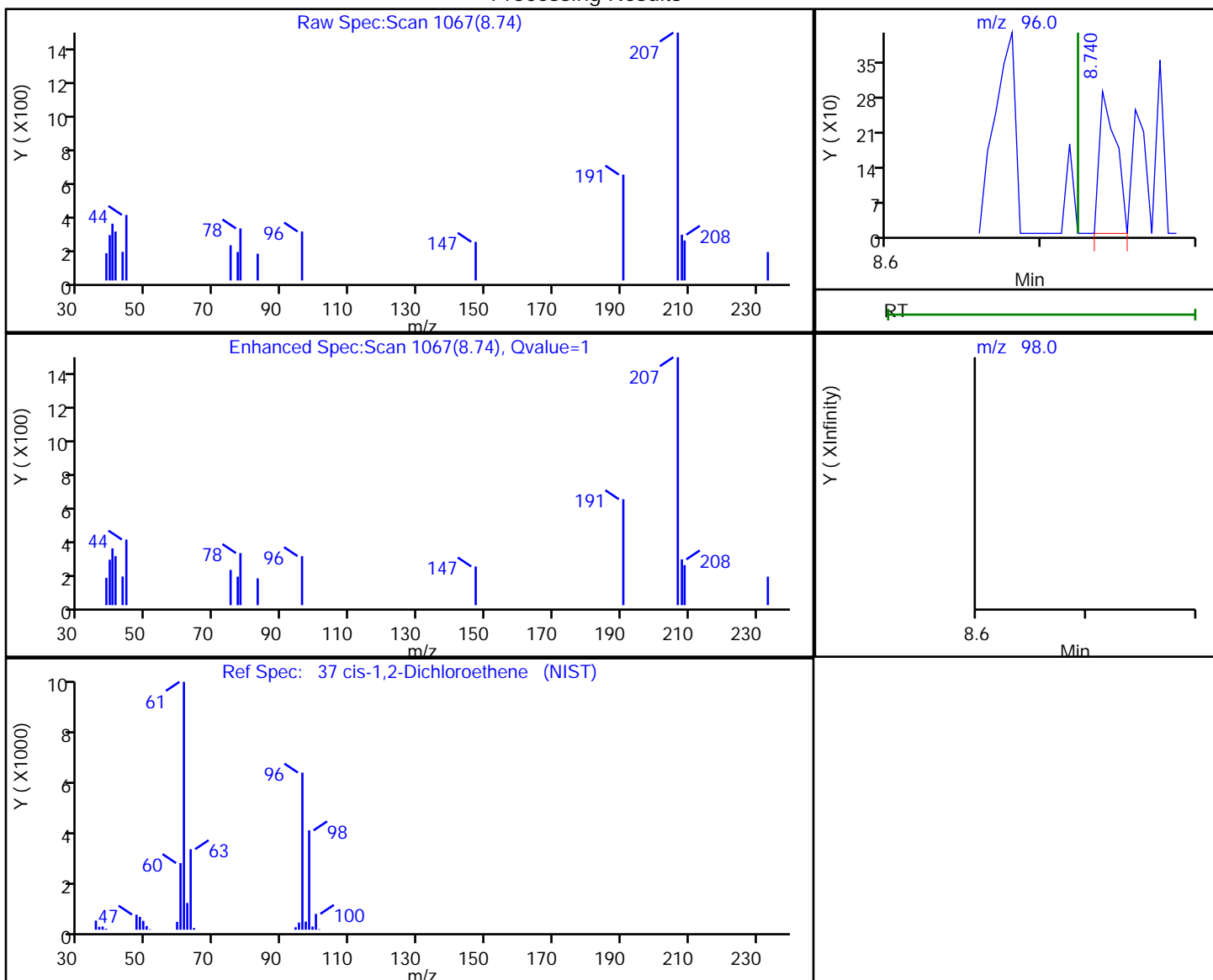
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.74 | 96.00 | 217      | 0.004531 |
| 8.72 | 98.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:34:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

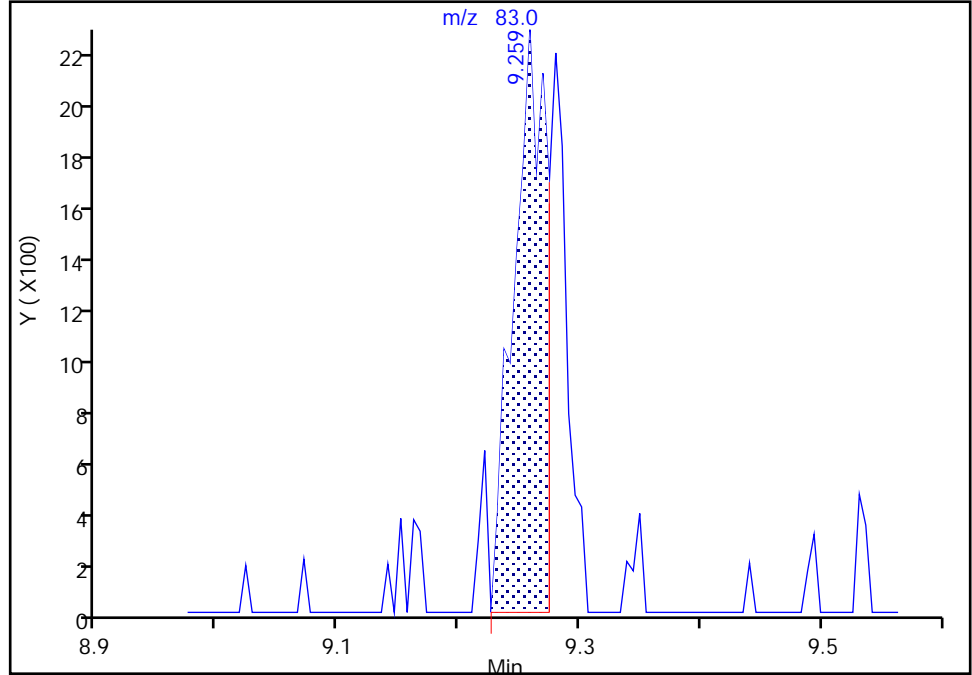
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

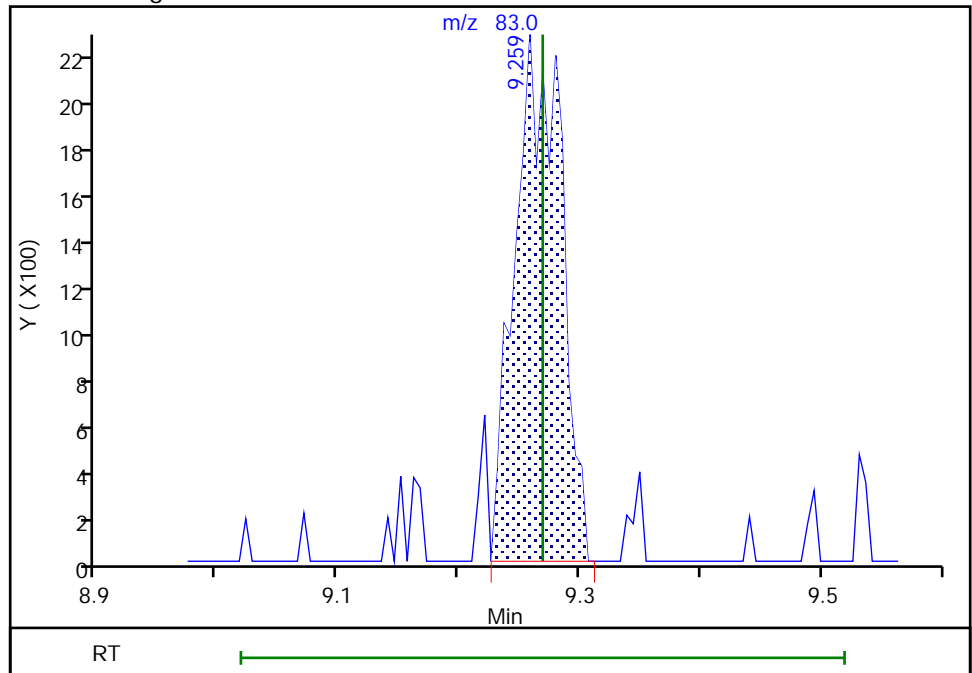
RT: 9.26  
Area: 4192  
Amount: 0.036286  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.26  
Area: 5971  
Amount: 0.051685  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:42:22  
Audit Action: Manually Integrated

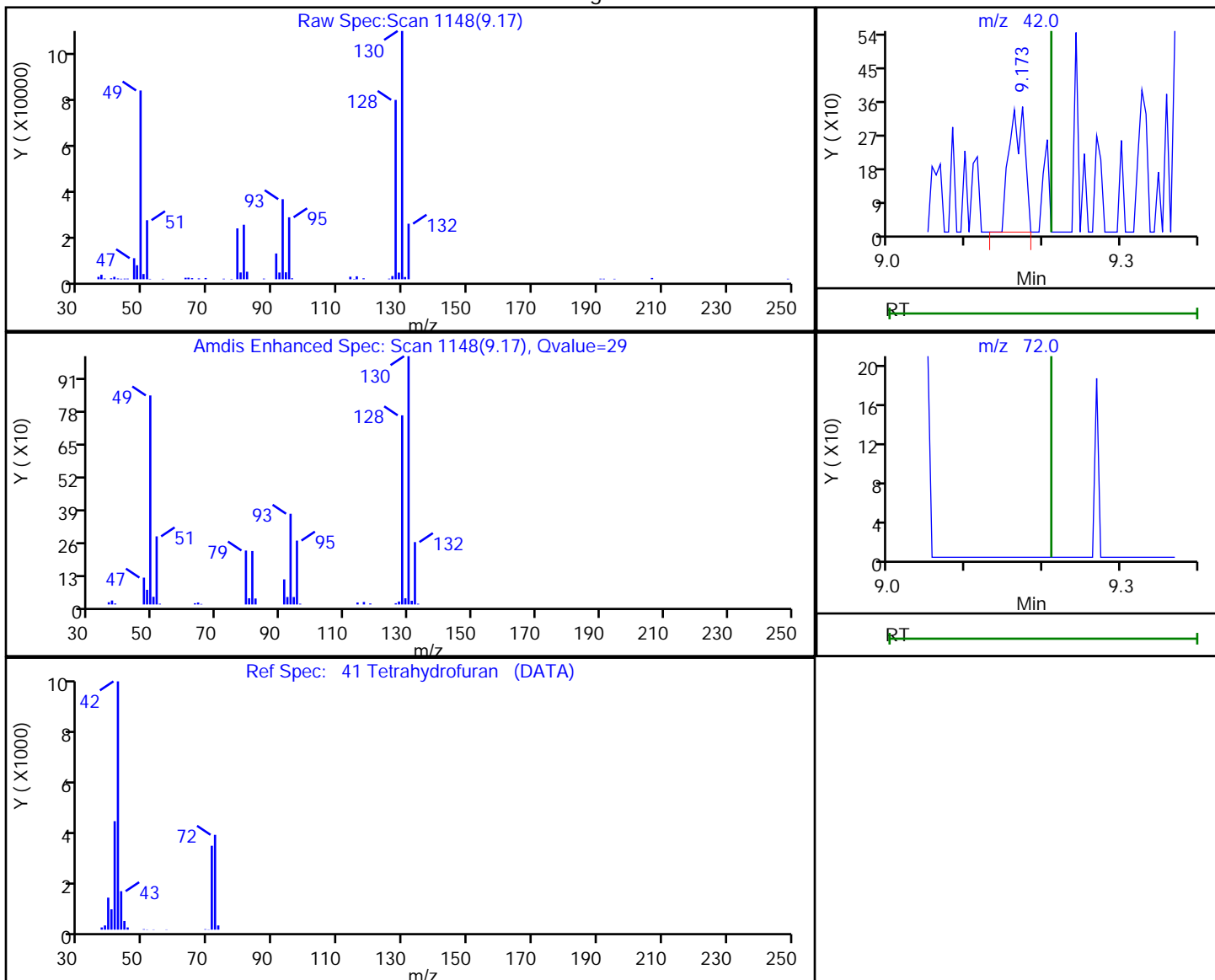
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.17 | 42.00 | 468      | 0.016342 |
| 9.21 | 72.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:34:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

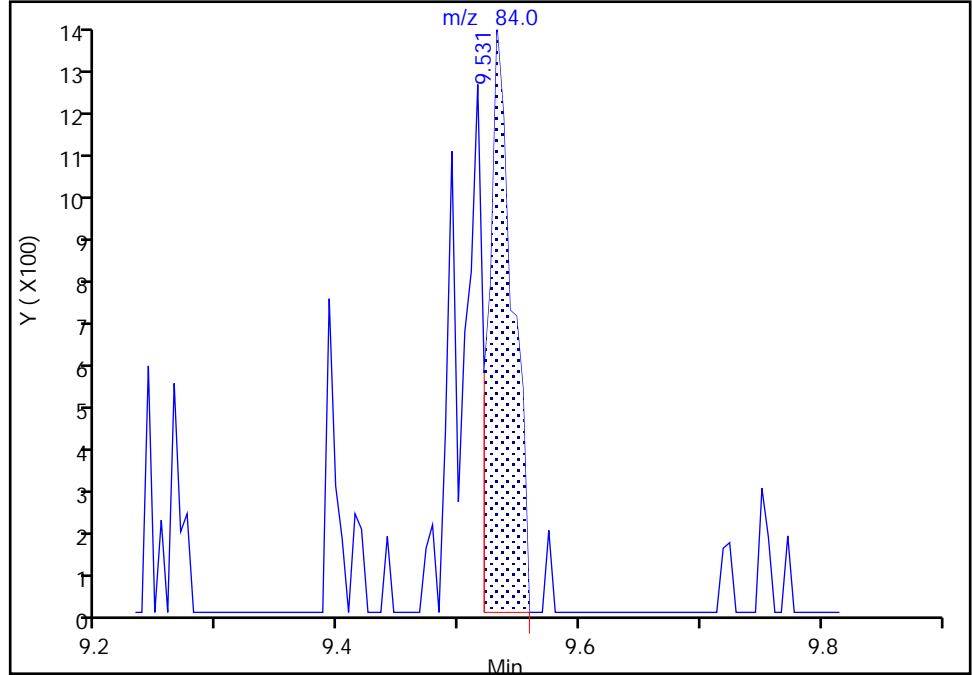
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

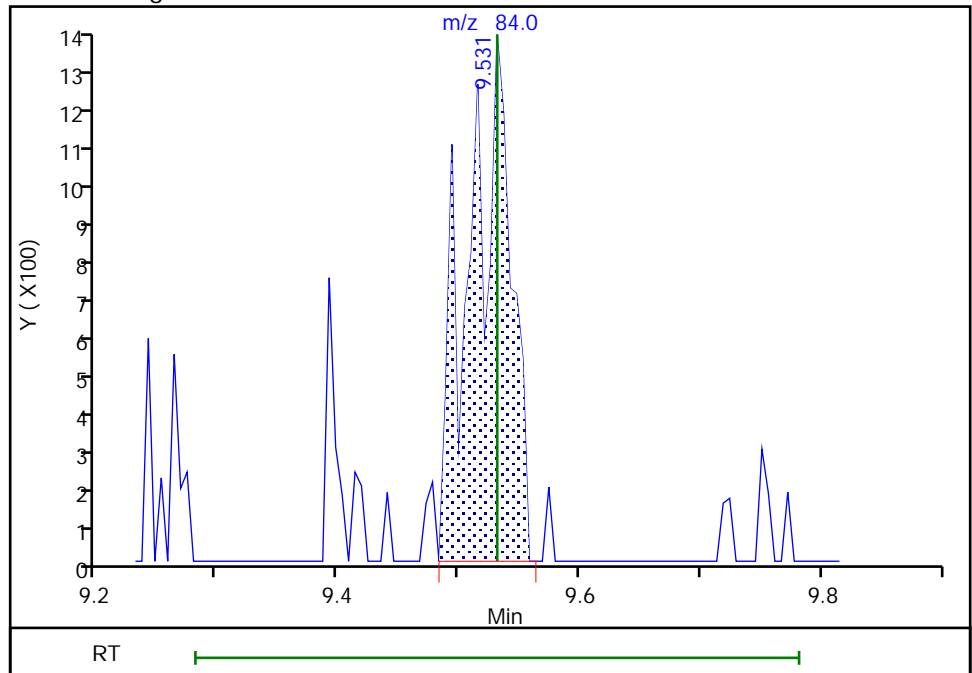
RT: 9.53  
Area: 1864  
Amount: 0.032352  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.53  
Area: 3301  
Amount: 0.057292  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:34:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

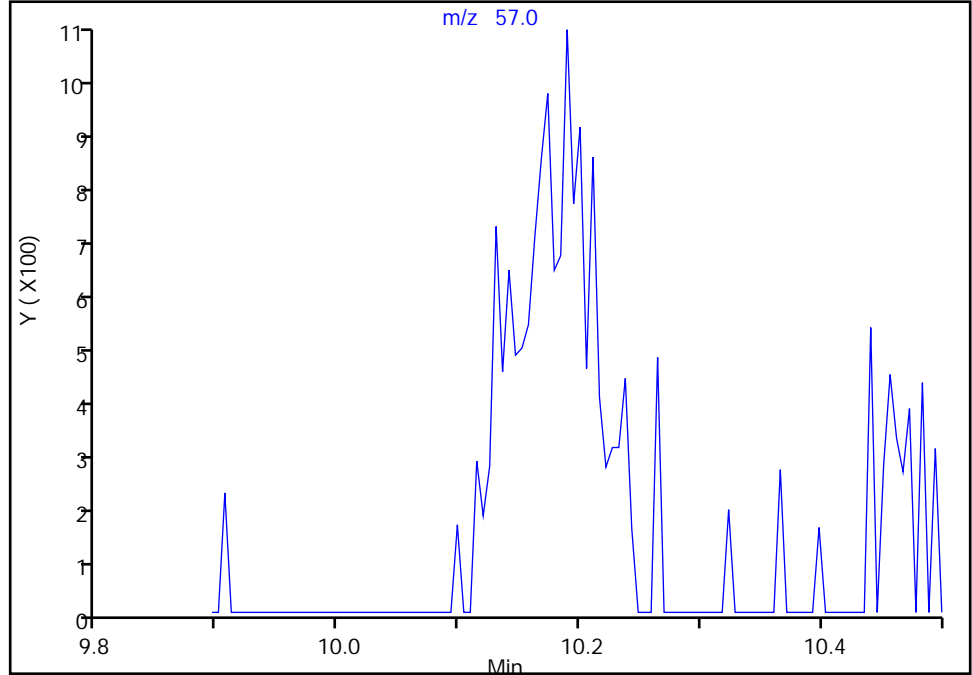
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Isooctane, CAS: 540-84-1

Signal: 1

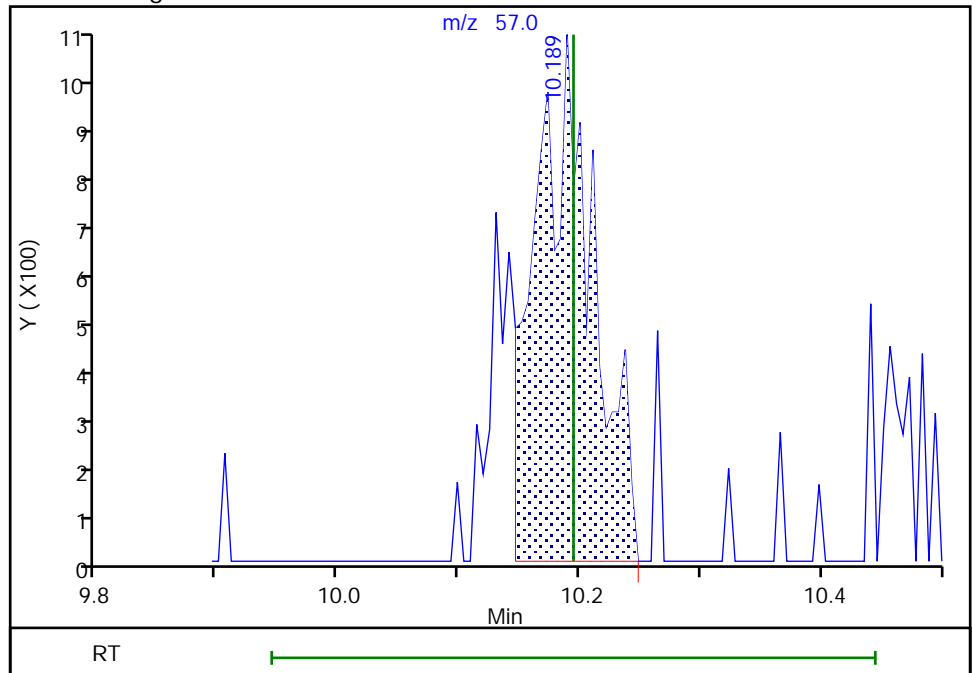
Not Detected  
Expected RT: 10.19

Processing Integration Results



Manual Integration Results

RT: 10.19  
Area: 3587  
Amount: 0.018821  
Amount Units: ppb v/v



Reviewer: bunmaa, 07-Dec-2018 09:34:58  
Audit Action: Manually Integrated

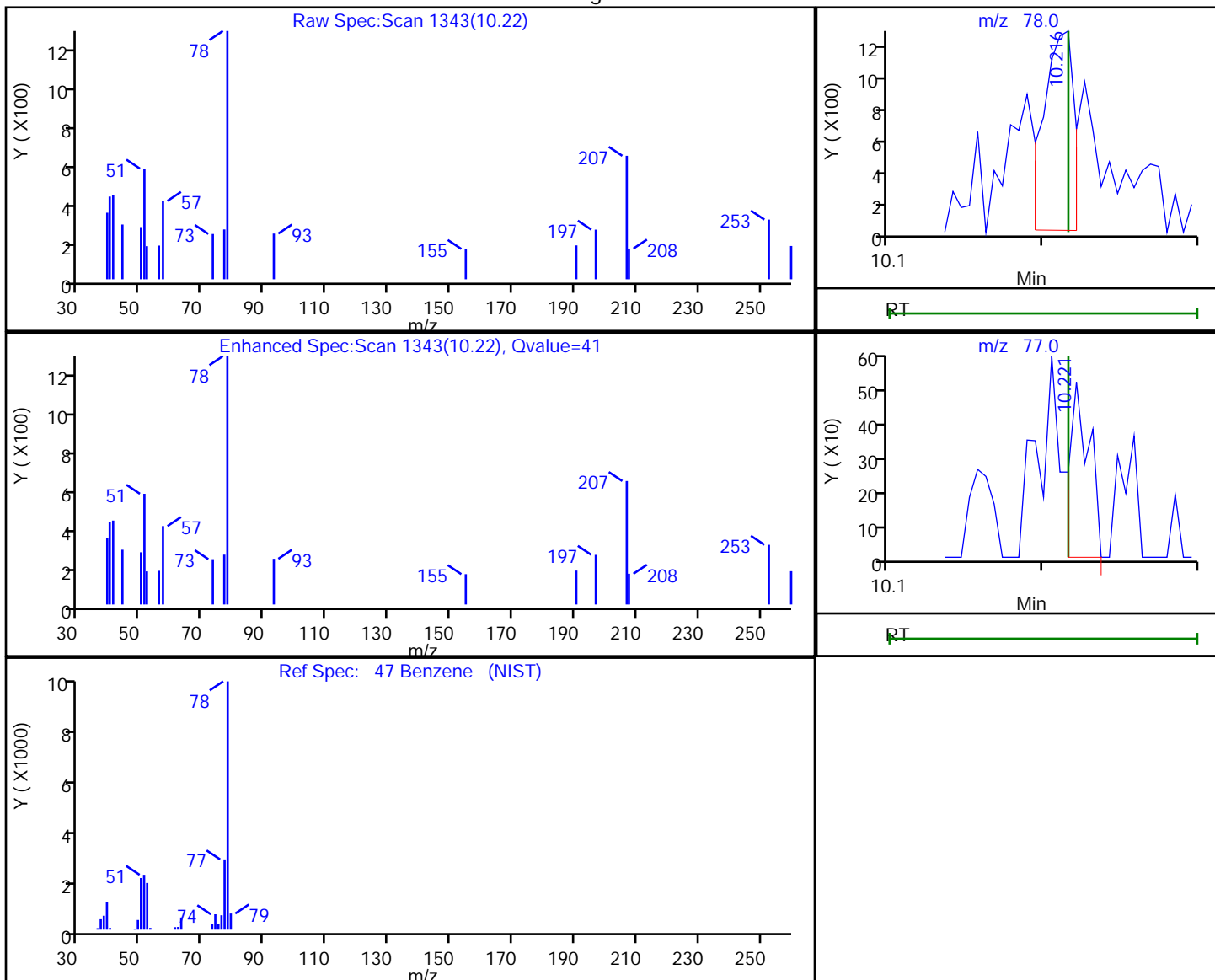
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.22 | 78.00 | 1745     | 0.013055 |
| 10.22 | 77.00 | 459      |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

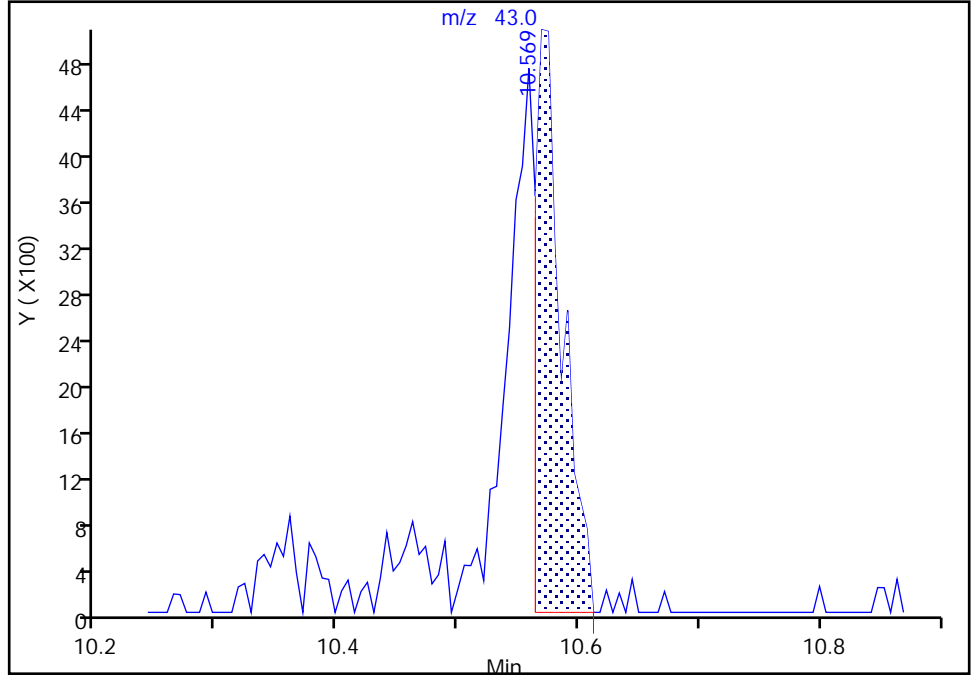
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Signal: 1

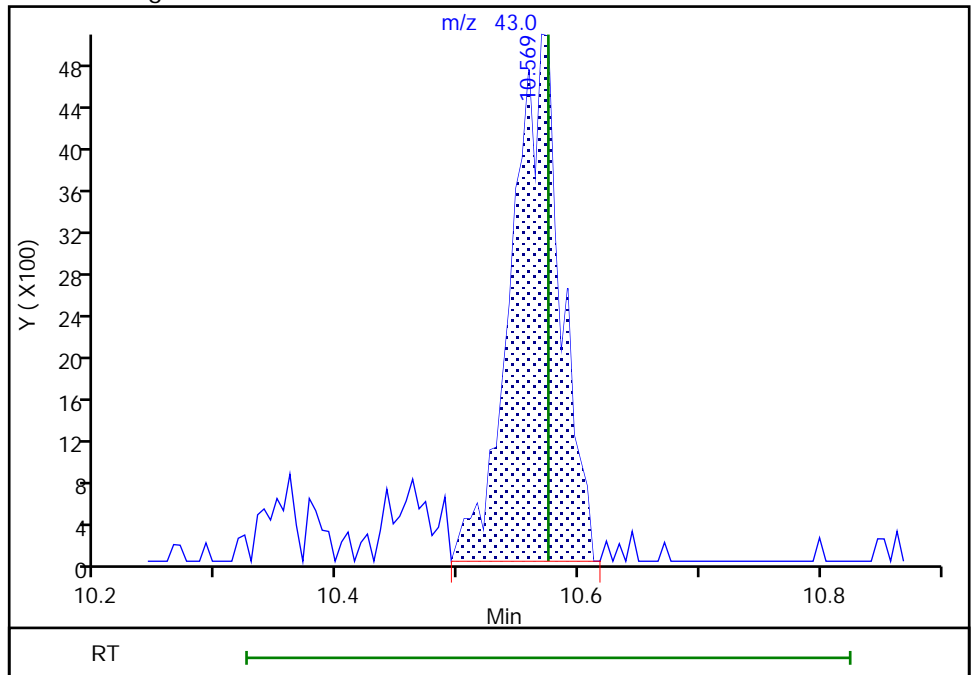
RT: 10.57  
Area: 7785  
Amount: 0.113196  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.57  
Area: 14307  
Amount: 0.208027  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:42:32  
Audit Action: Manually Integrated

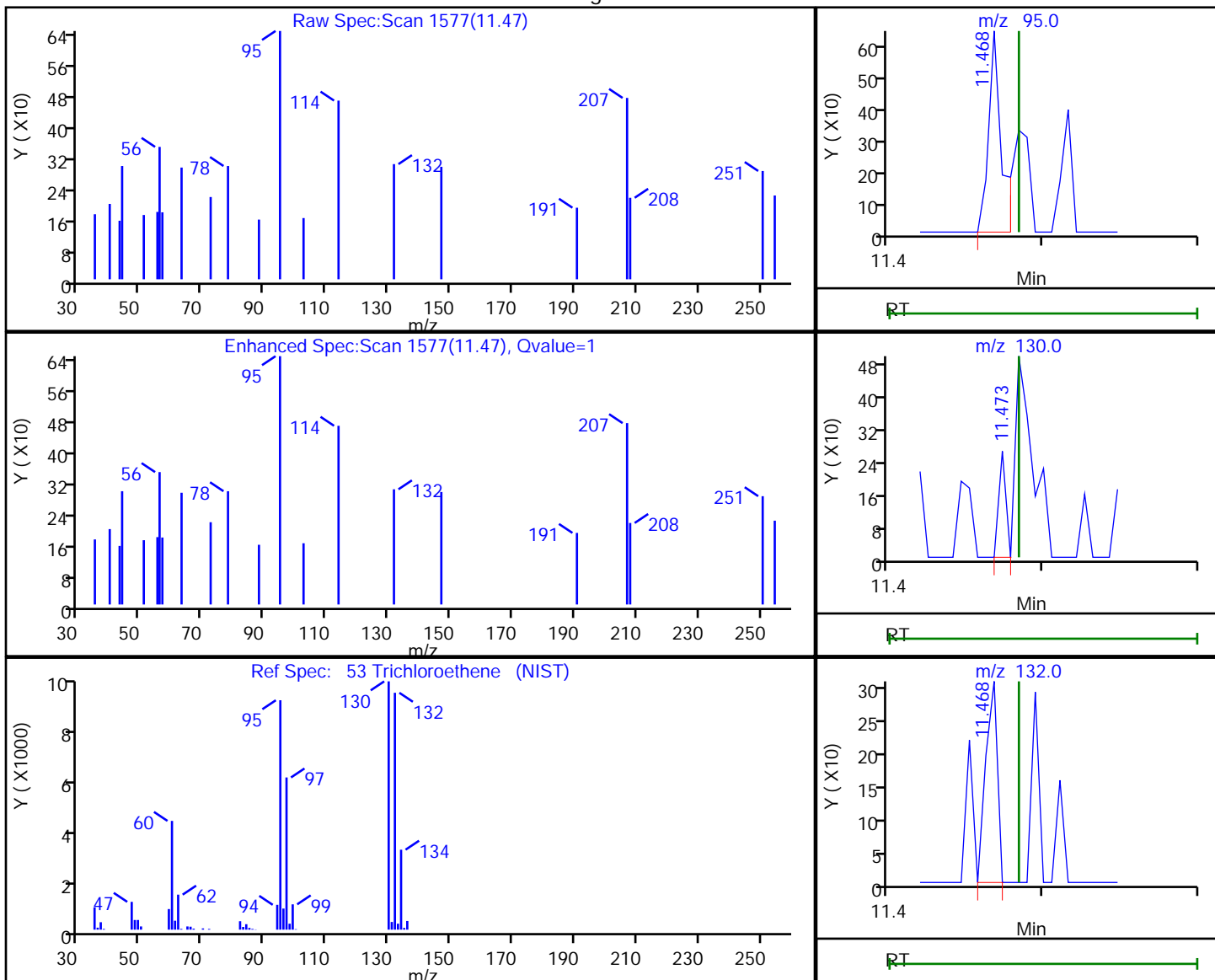
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.47 | 95.00  | 378      | 0.004321 |
| 11.47 | 130.00 | 84       |          |
| 11.47 | 132.00 | 158      |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:15  
 Audit Action: Marked Compound Undetected

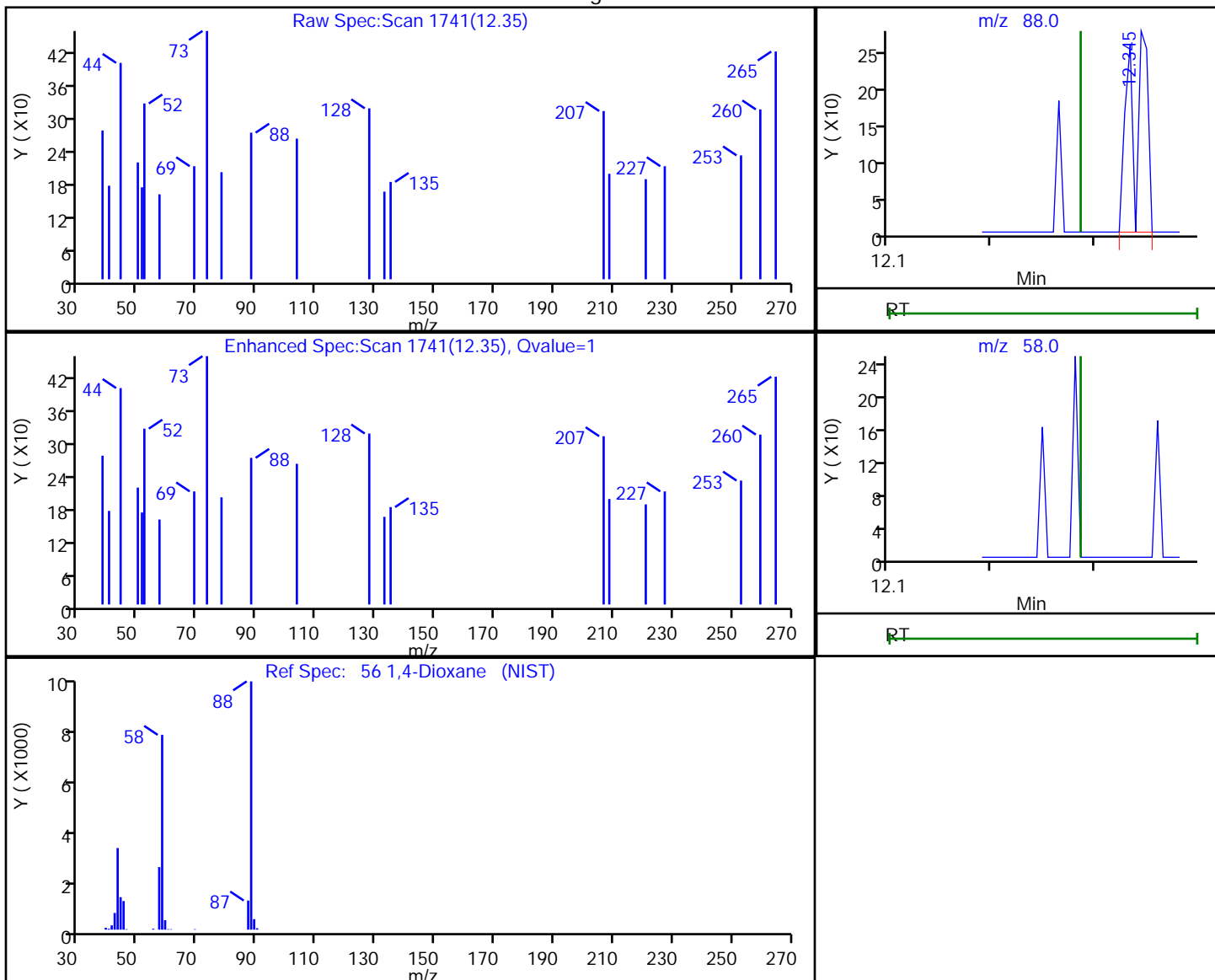
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.35 | 88.00 | 299      | 0.012169 |
| 12.29 | 58.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:20  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

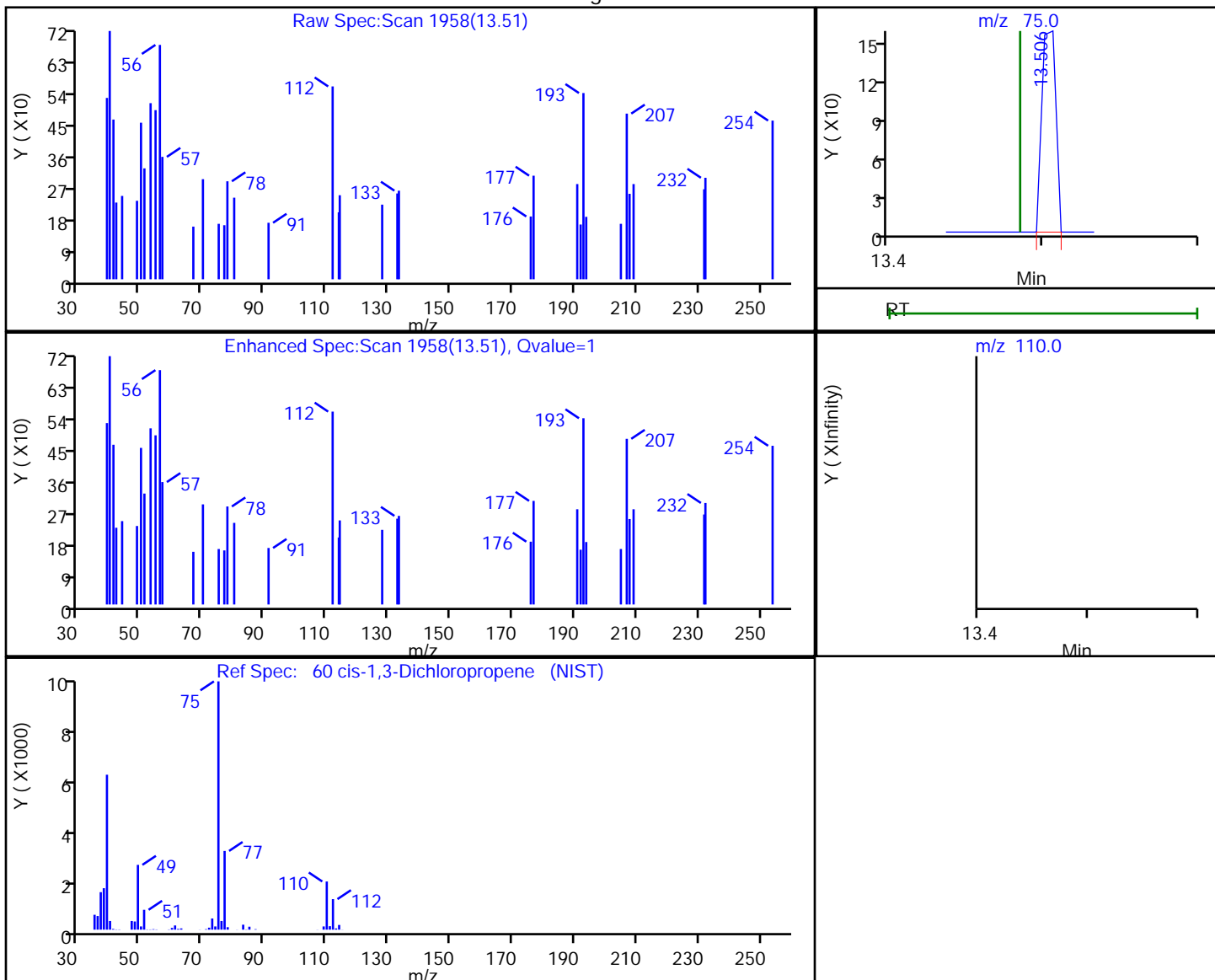


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.51 | 75.00  | 101      | 0.001201 |
| 13.48 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:27

Audit Action: Marked Compound Undetected

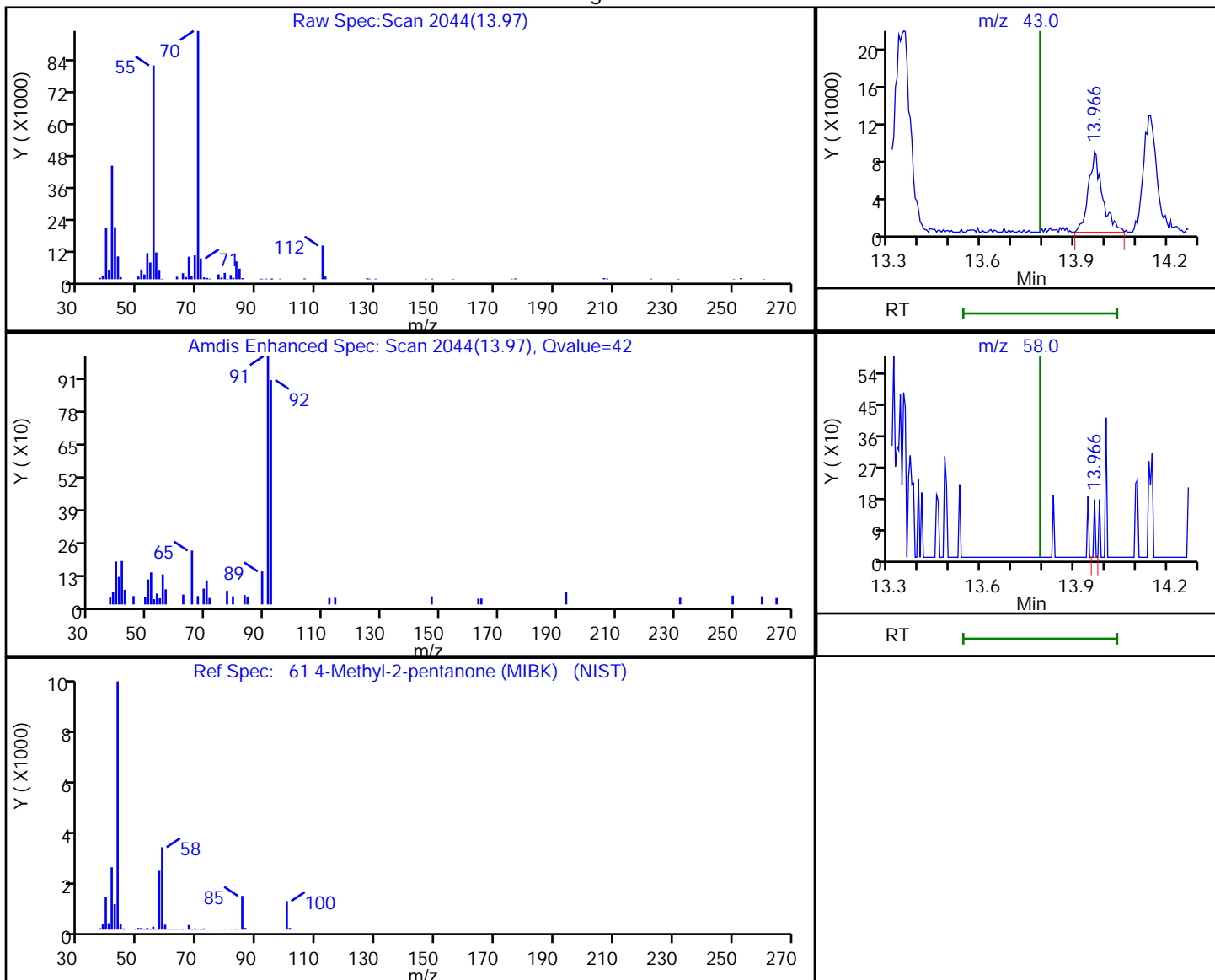
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.97 | 43.00 | 27095    | 0.311721 |
| 13.97 | 58.00 | 54       |          |

Reviewer: guazzonig, 06-Dec-2018 13:42:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

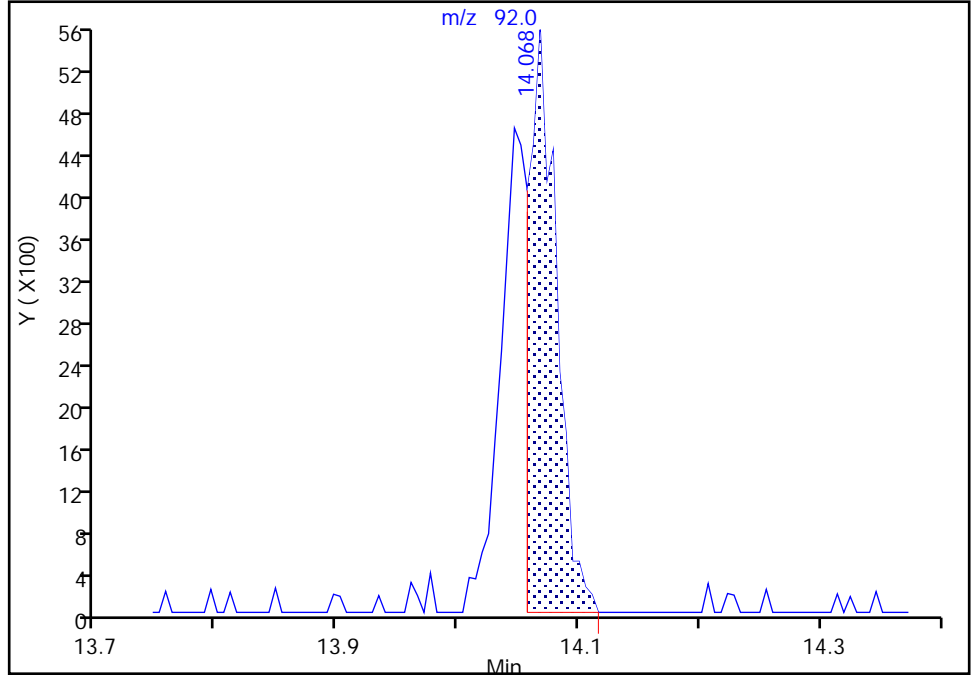
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Signal: 1

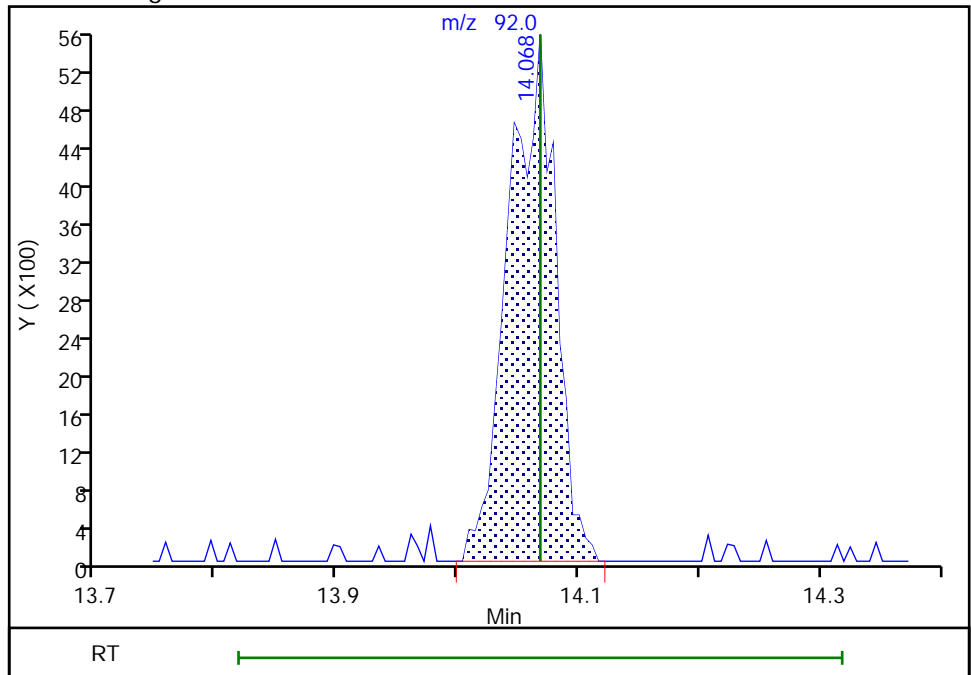
RT: 14.07  
Area: 8919  
Amount: 0.083992  
Amount Units: ppb v/v

Processing Integration Results



RT: 14.07  
Area: 14908  
Amount: 0.140392  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 06-Dec-2018 13:42:43  
Audit Action: Manually Integrated

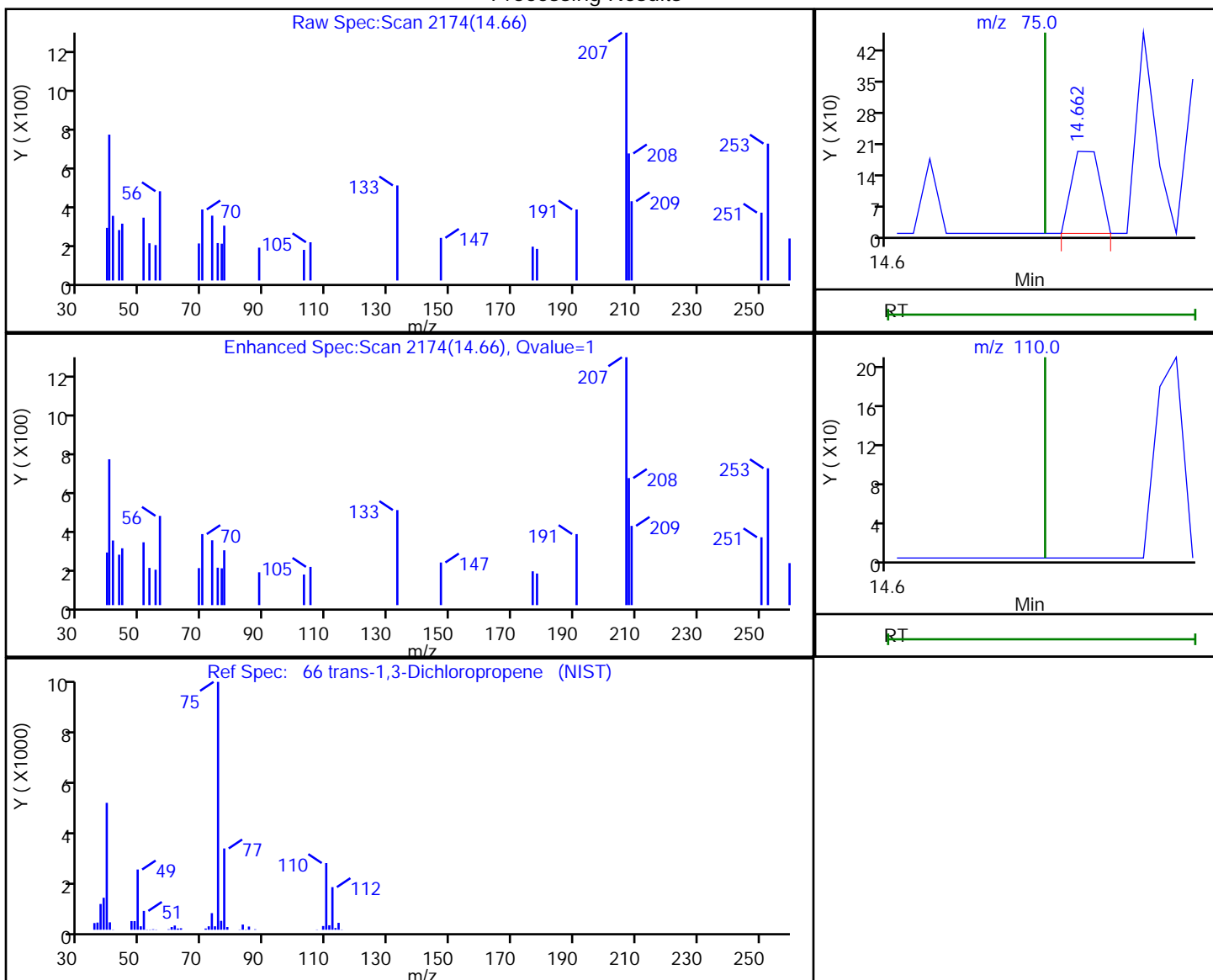
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.66 | 75.00  | 120      | 0.001451 |
| 14.65 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:38

Audit Action: Marked Compound Undetected

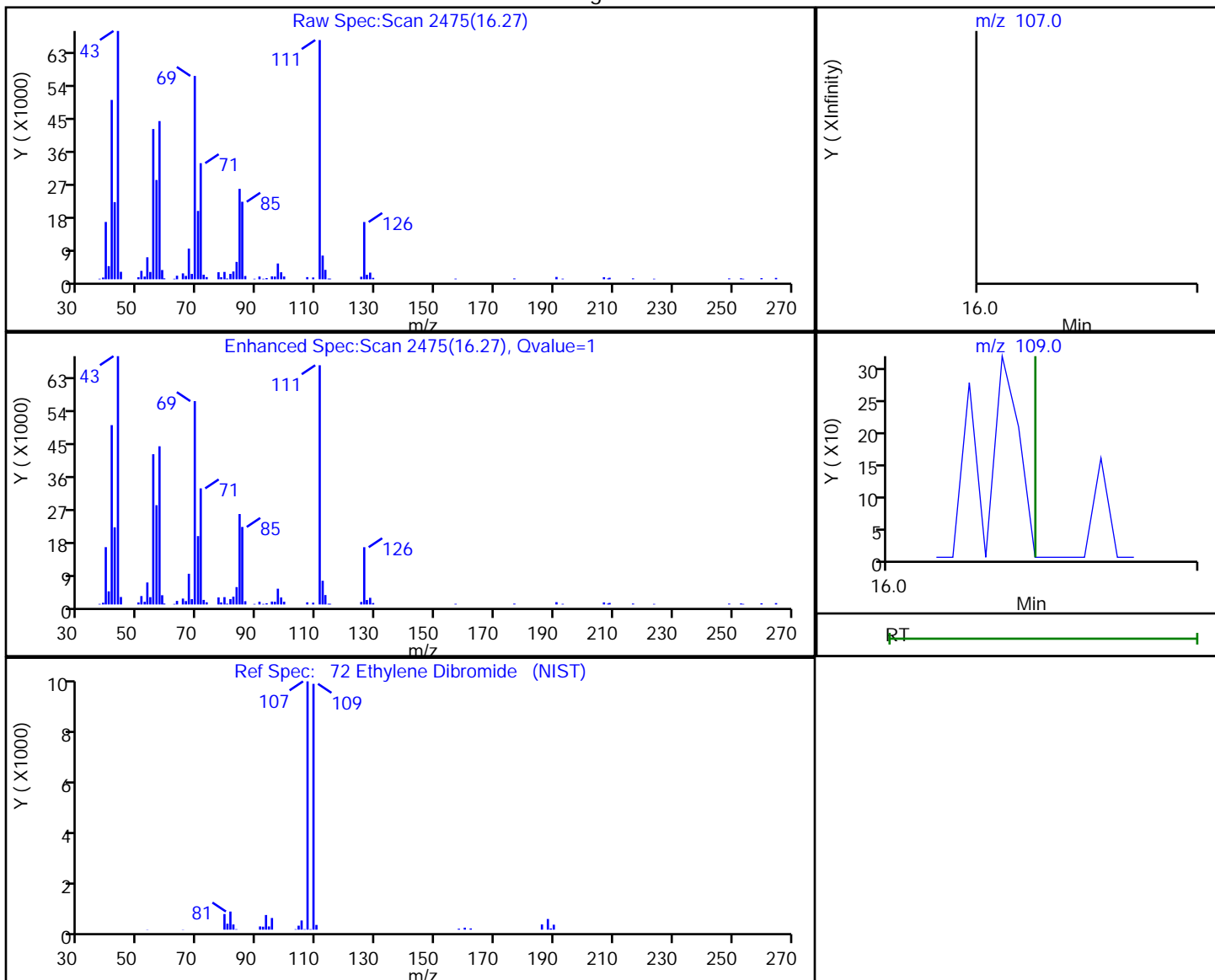
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 16.27 | 107.00 | 189      | 0.001629 |
| 16.05 | 109.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:35:57

Audit Action: Marked Compound Undetected

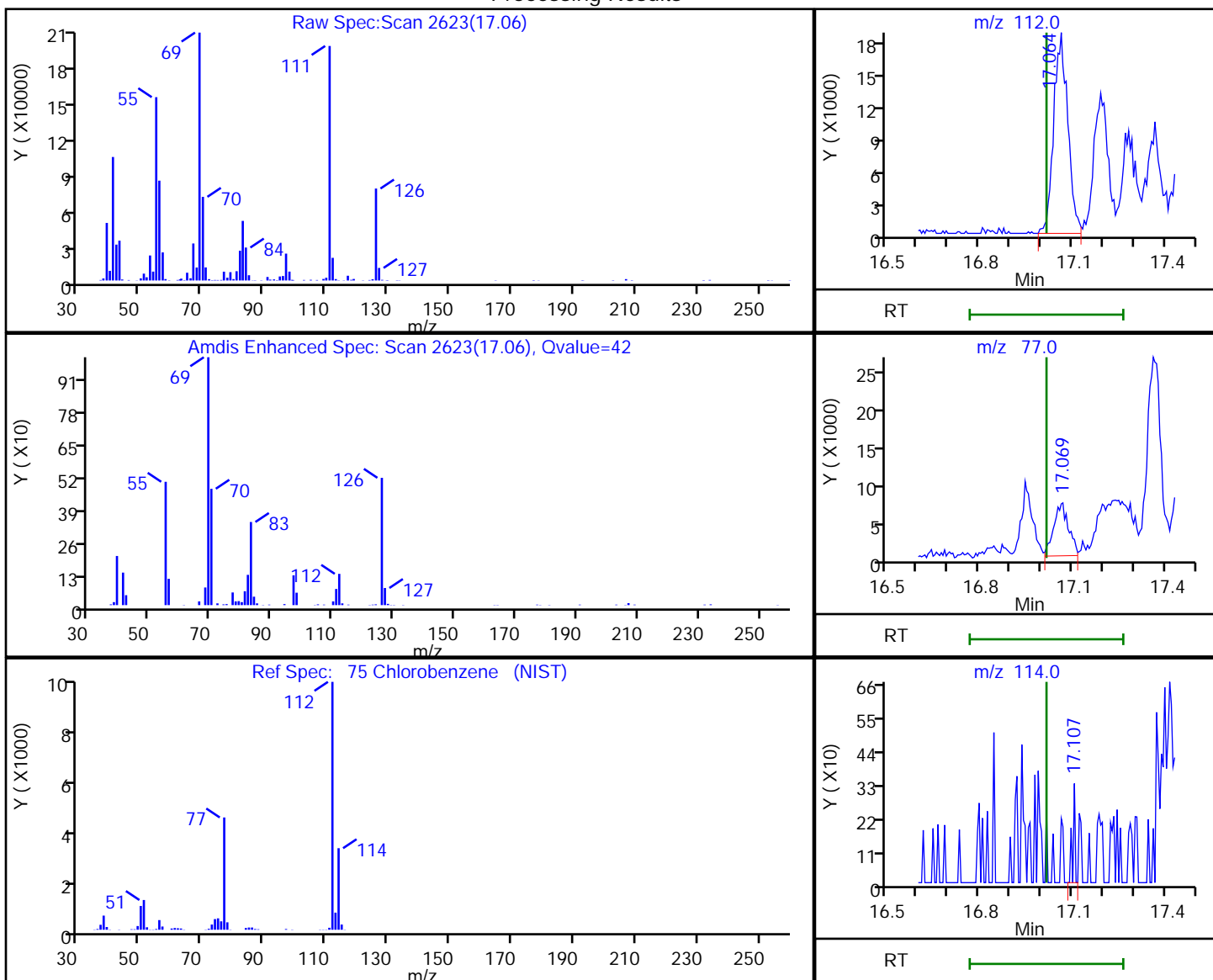
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.06 | 112.00 | 59946    | 0.367004 |
| 17.07 | 77.00  | 23450    |          |
| 17.11 | 114.00 | 164      |          |

Reviewer: bunmaa, 07-Dec-2018 09:36:04

Audit Action: Marked Compound Undetected

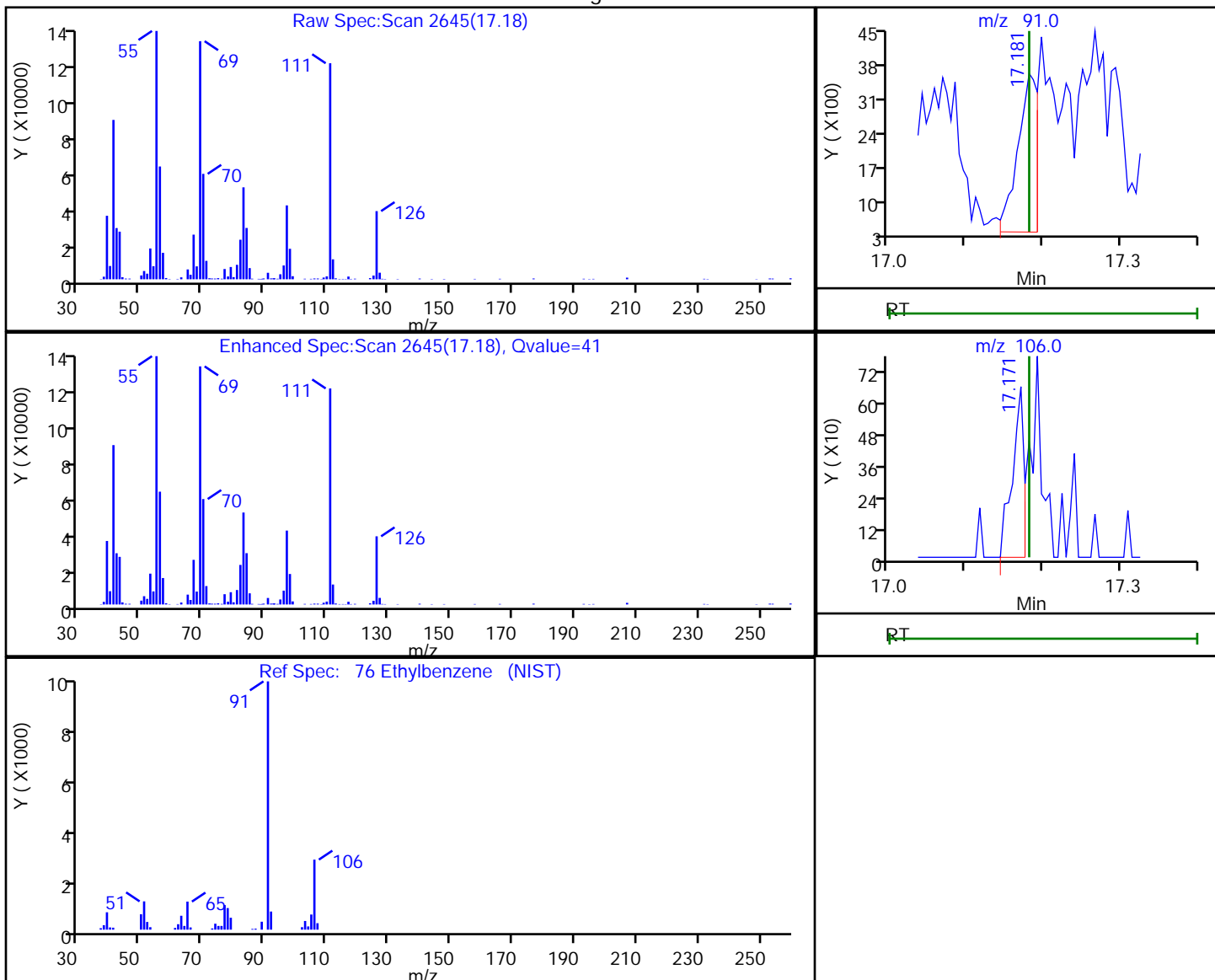
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.18 | 91.00  | 5790     | 0.024214 |
| 17.17 | 106.00 | 689      |          |

Reviewer: bunmaa, 07-Dec-2018 09:36:13

Audit Action: Marked Compound Undetected

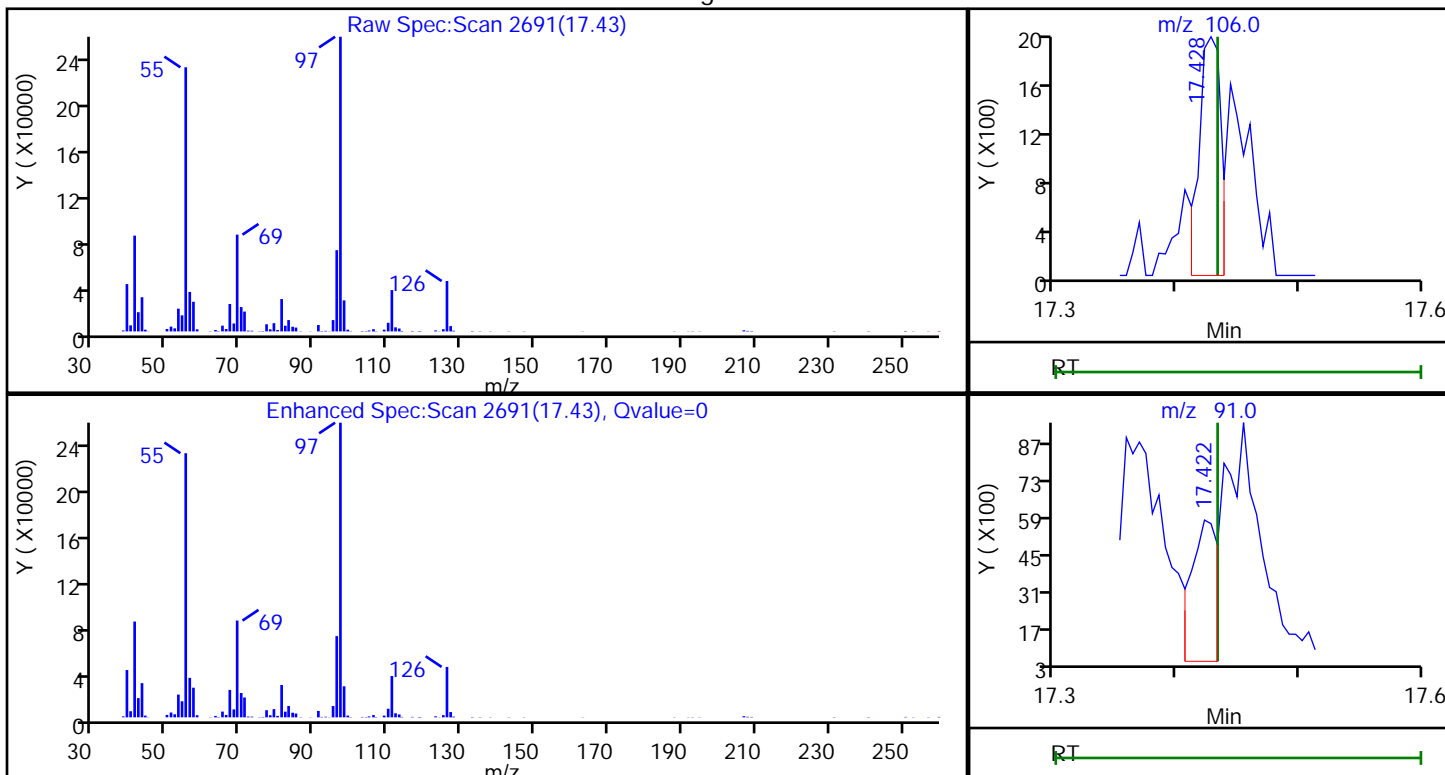
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.43 | 106.00 | 2519     | 0.025988 |
| 17.42 | 91.00  | 8237     |          |

Reviewer: bunmaa, 07-Dec-2018 09:36:22  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

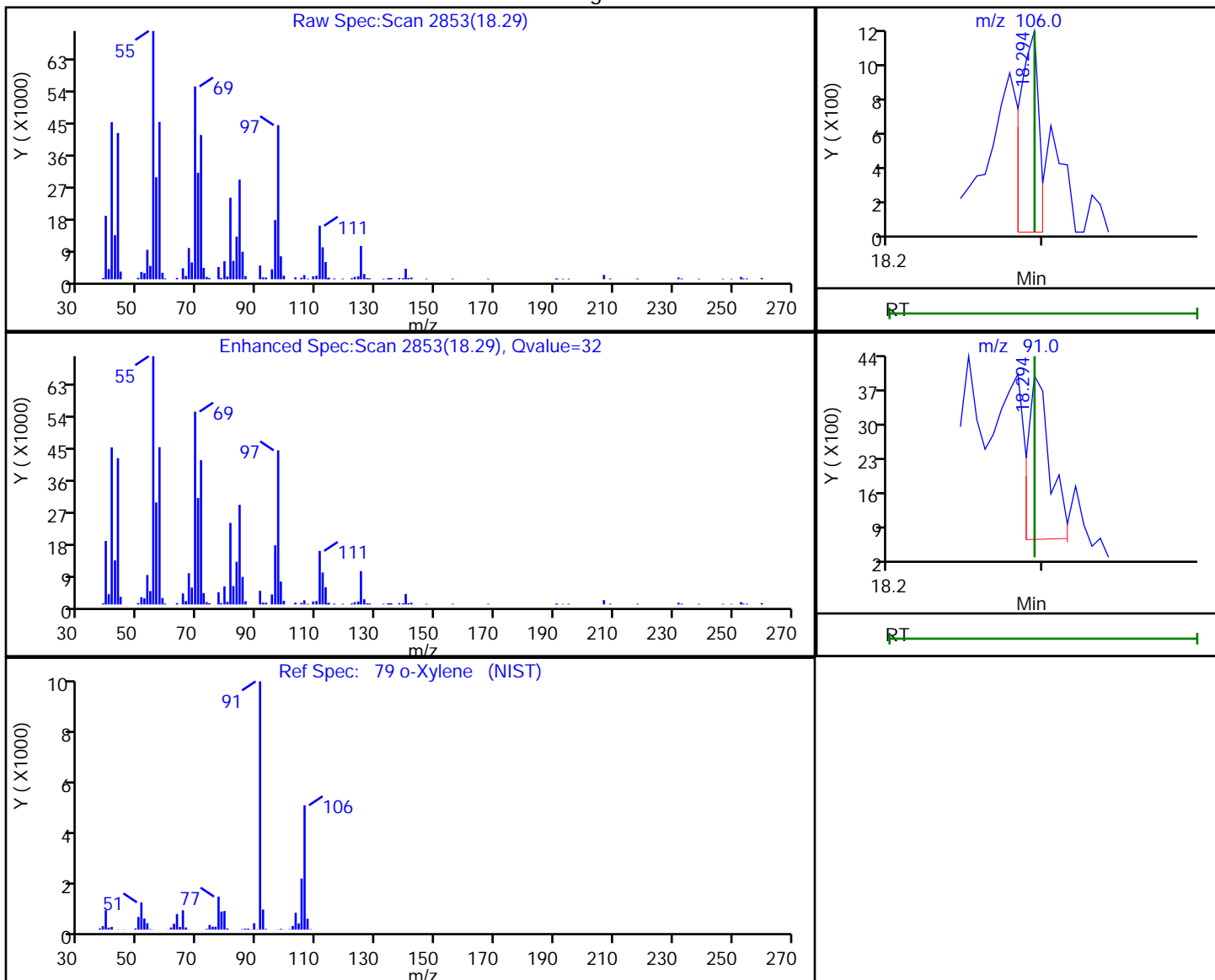


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.29 | 106.00 | 1035     | 0.011235 |
| 18.29 | 91.00  | 3362     |          |

Reviewer: bunmaa, 07-Dec-2018 09:36:57

Audit Action: Marked Compound Undetected

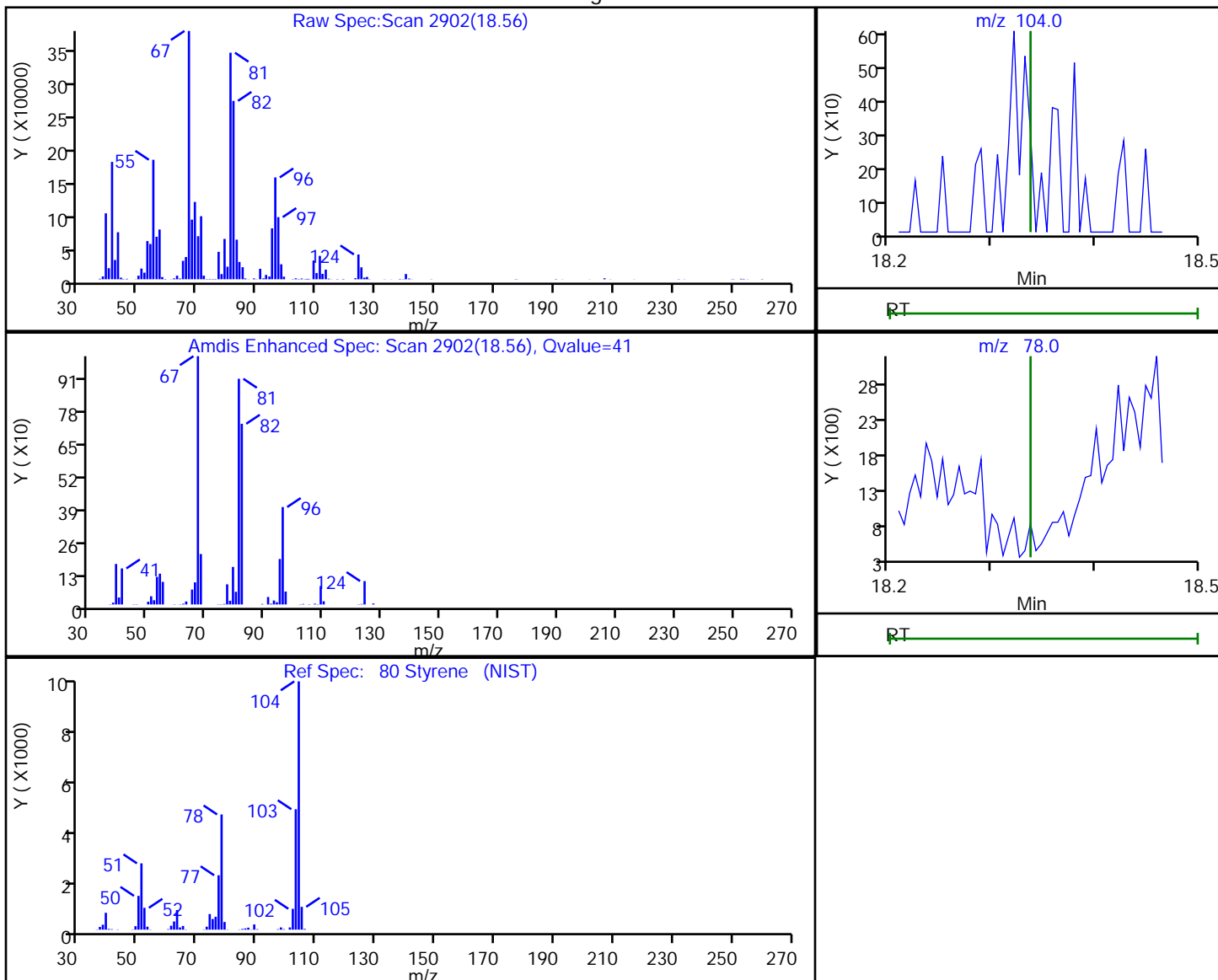
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.56 | 104.00 | 748      | 0.005304 |
| 18.55 | 78.00  | 19809    |          |

Reviewer: guazzonig, 06-Dec-2018 13:43:18

Audit Action: Marked Compound Undetected

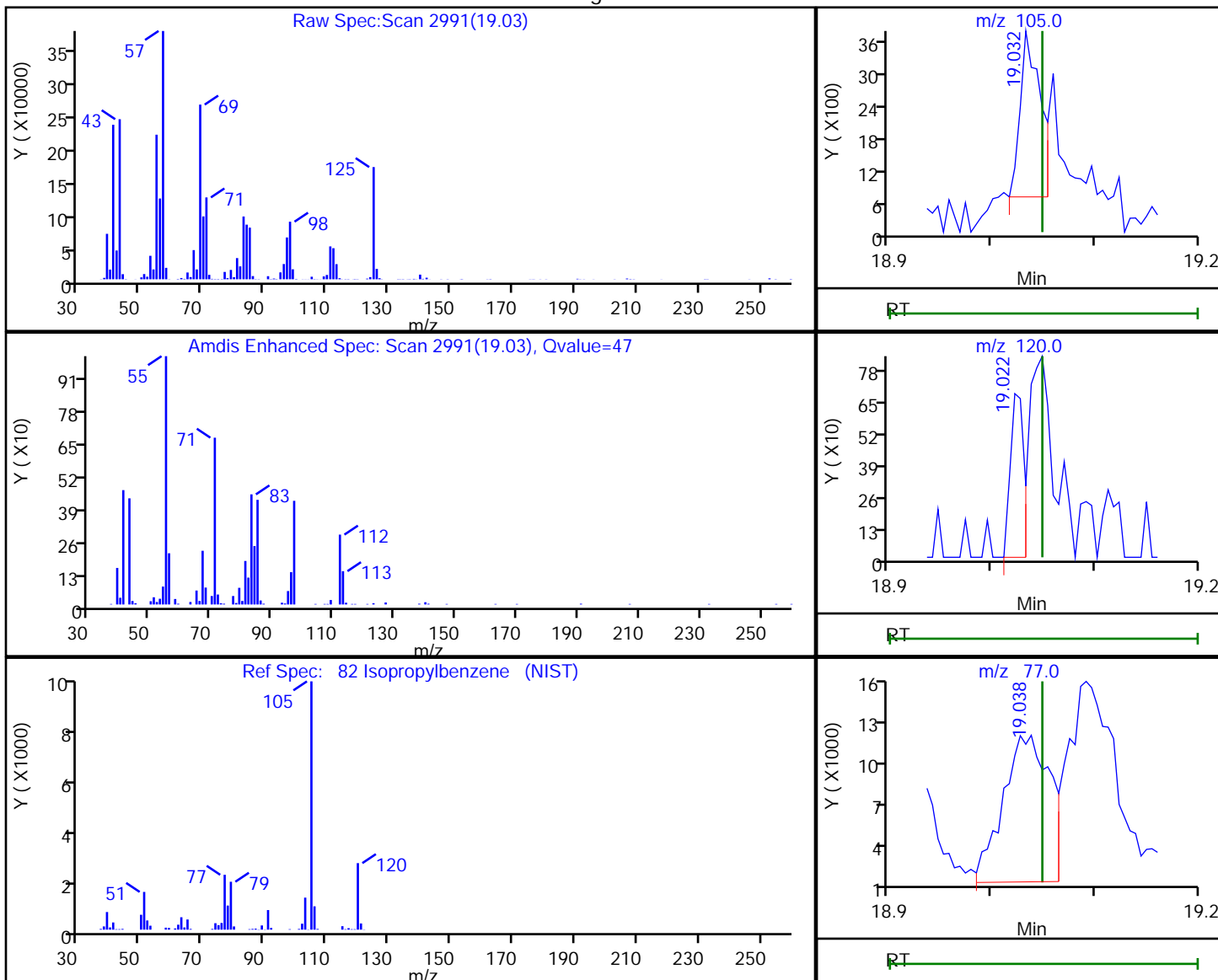
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.03 | 105.00 | 4276     | 0.015874 |
| 19.02 | 120.00 | 631      |          |
| 19.04 | 77.00  | 31850    |          |

Reviewer: bunmaa, 07-Dec-2018 09:37:15  
 Audit Action: Marked Compound Undetected

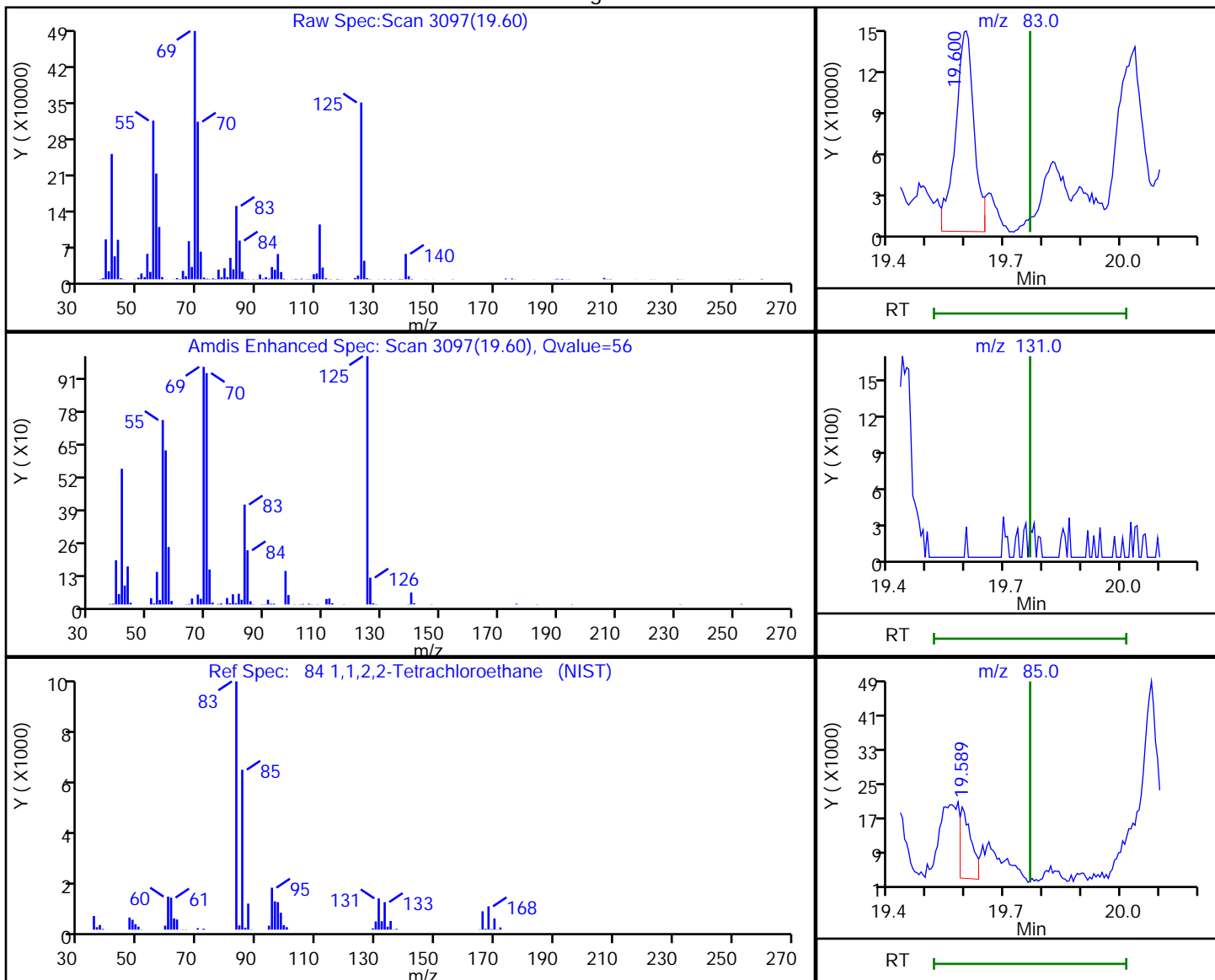
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.60 | 83.00  | 460428   | 3.132758 |
| 19.77 | 131.00 | 0        |          |
| 19.59 | 85.00  | 33840    |          |

Reviewer: guazzonig, 06-Dec-2018 13:43:25  
 Audit Action: Marked Compound Undetected

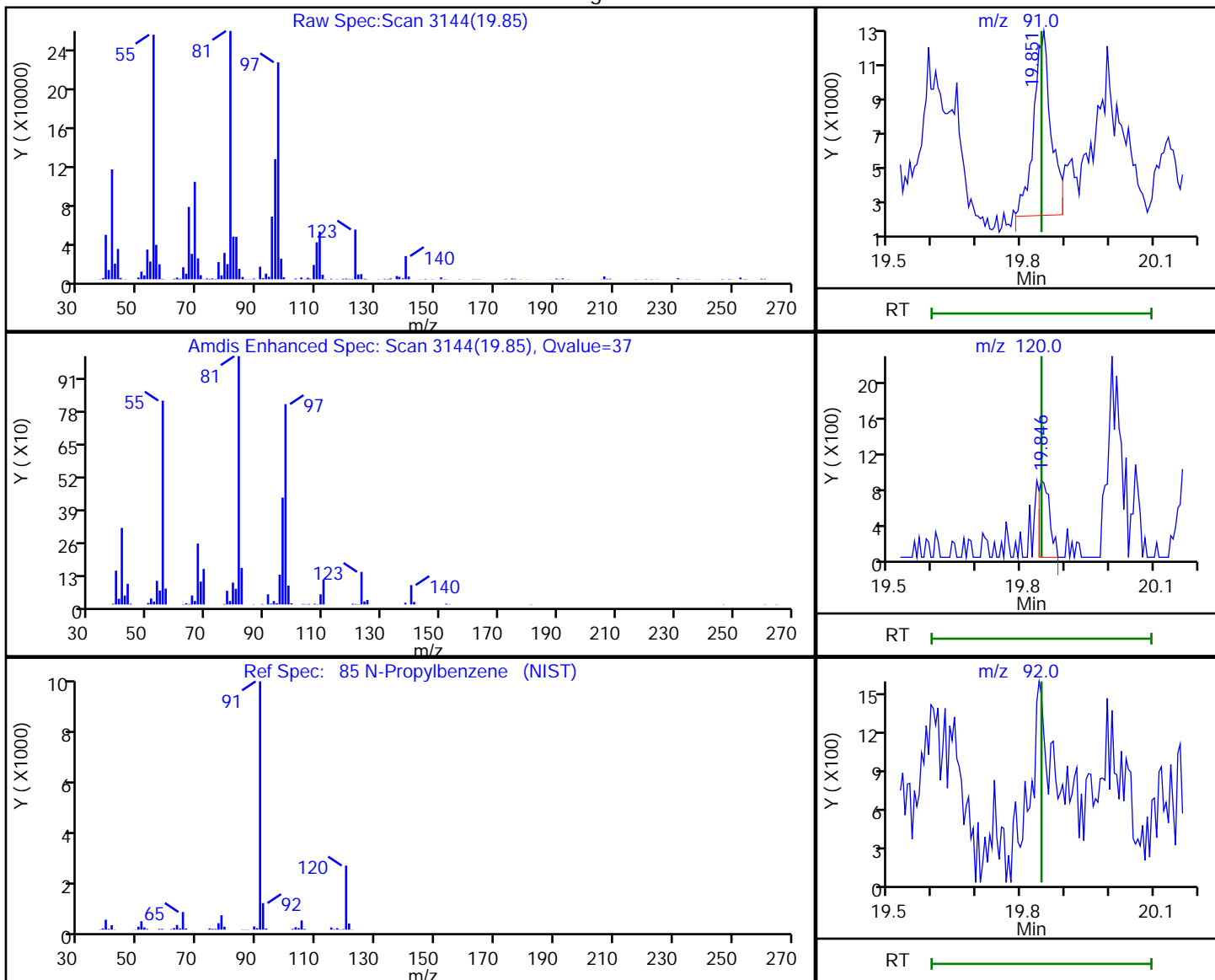
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.85 | 91.00  | 29598    | 0.092275 |
| 19.85 | 120.00 | 1439     |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:37:26  
 Audit Action: Marked Compound Undetected

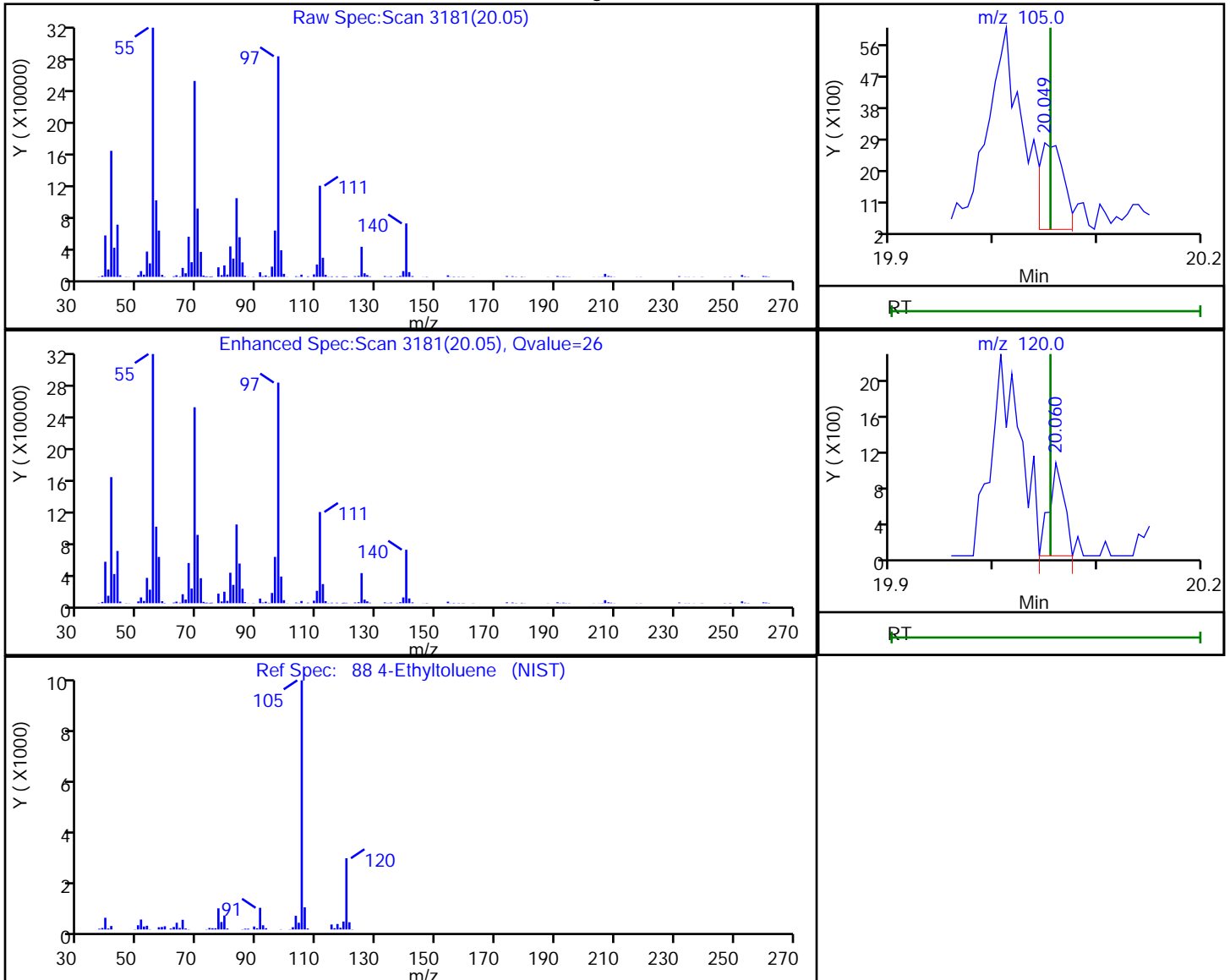
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.05 | 105.00 | 4068     | 0.014898 |
| 20.06 | 120.00 | 1031     |          |

Reviewer: bunmaa, 07-Dec-2018 09:37:35

Audit Action: Marked Compound Undetected

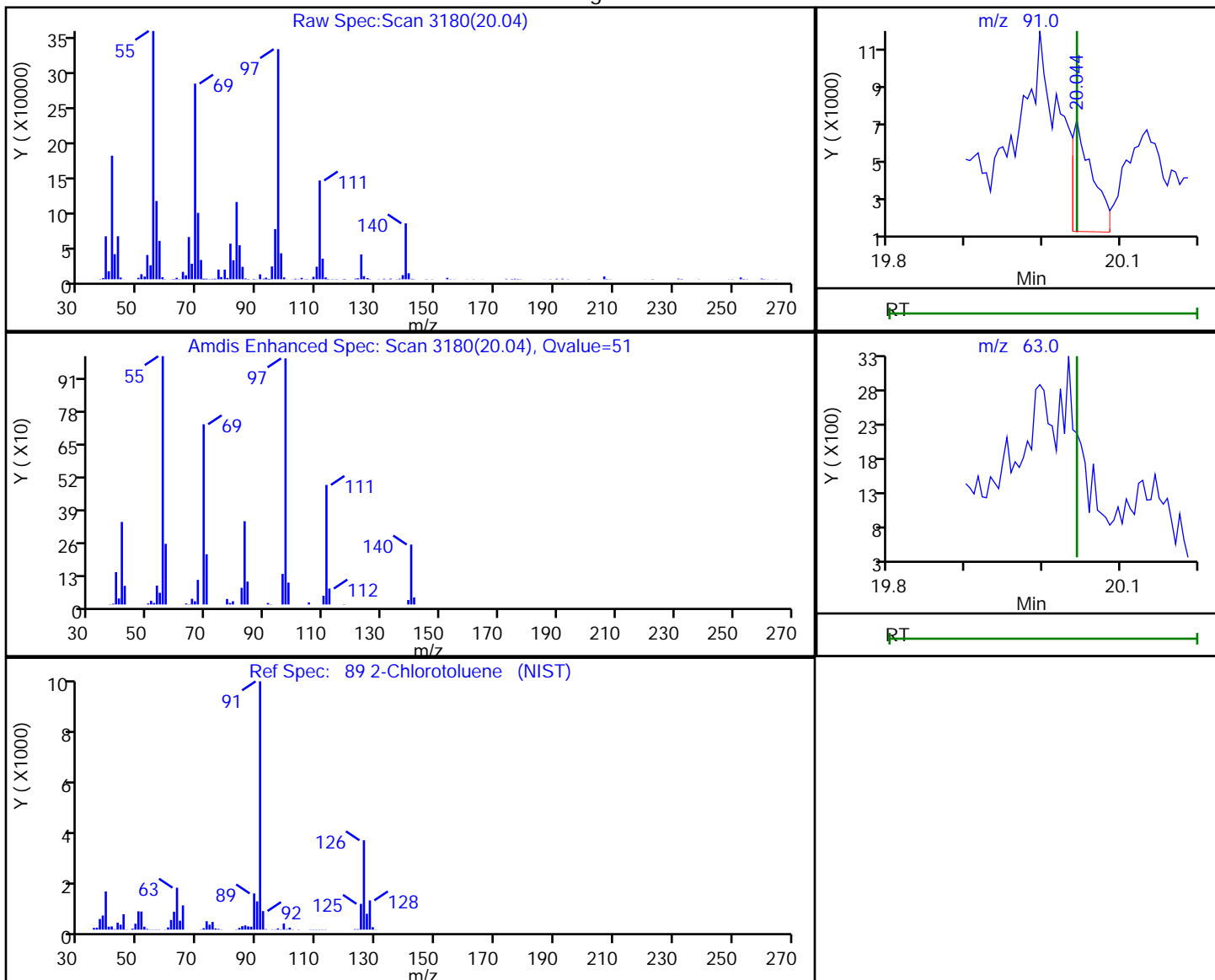
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.04 | 91.00 | 10899    | 0.044992 |
| 20.04 | 63.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:43:29  
 Audit Action: Marked Compound Undetected

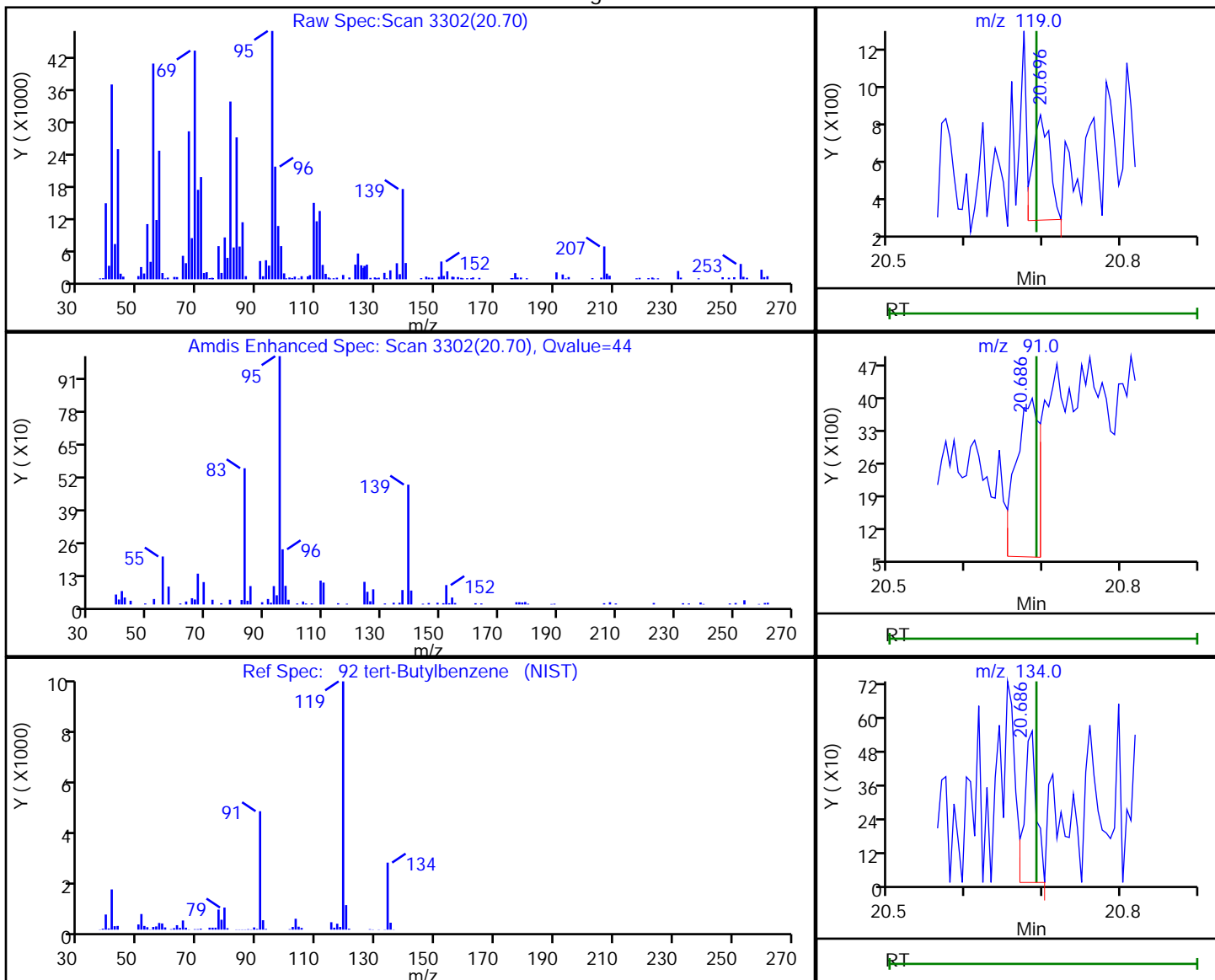
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.70 | 119.00 | 817      | 0.003739 |
| 20.69 | 91.00  | 7220     |          |
| 20.69 | 134.00 | 589      |          |

Reviewer: bunmaa, 07-Dec-2018 09:37:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

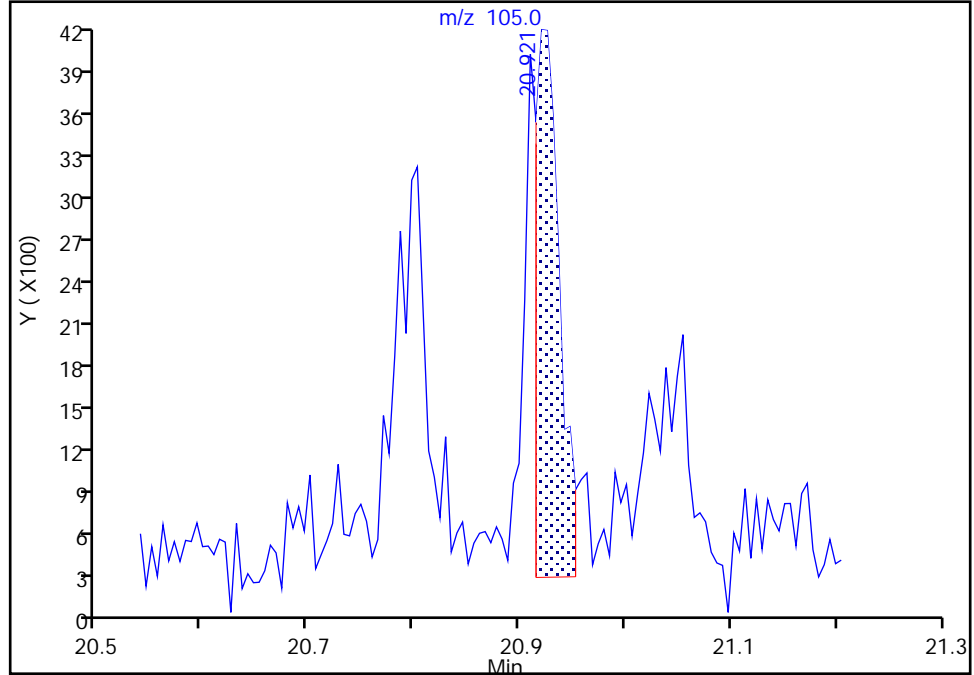
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

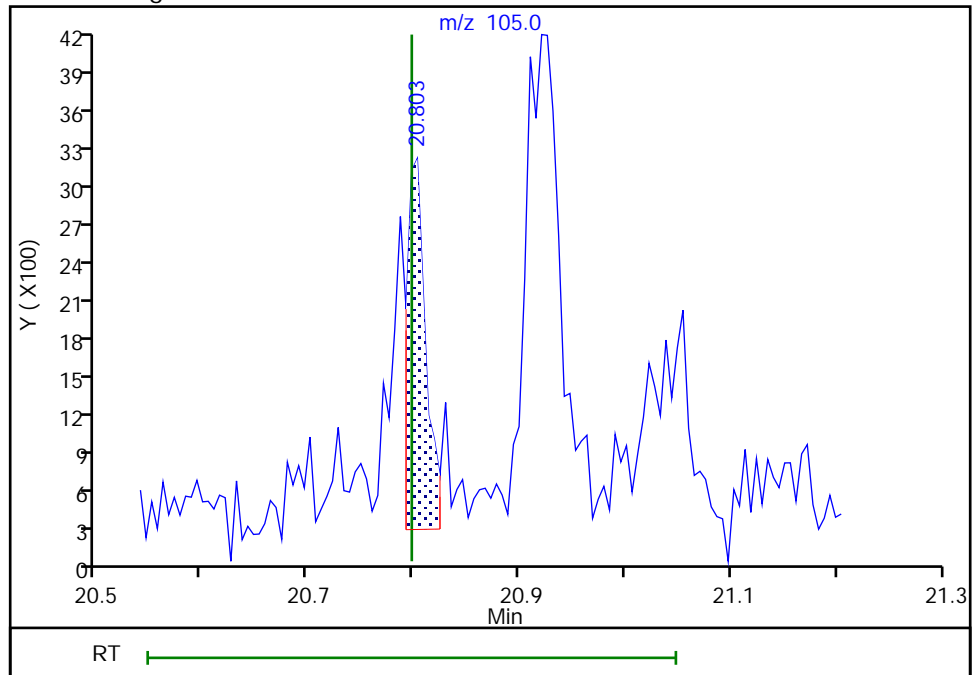
RT: 20.92  
Area: 6153  
Amount: 0.026695  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.80  
Area: 3630  
Amount: 0.015749  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:37:53

Audit Action: Assigned Compound ID

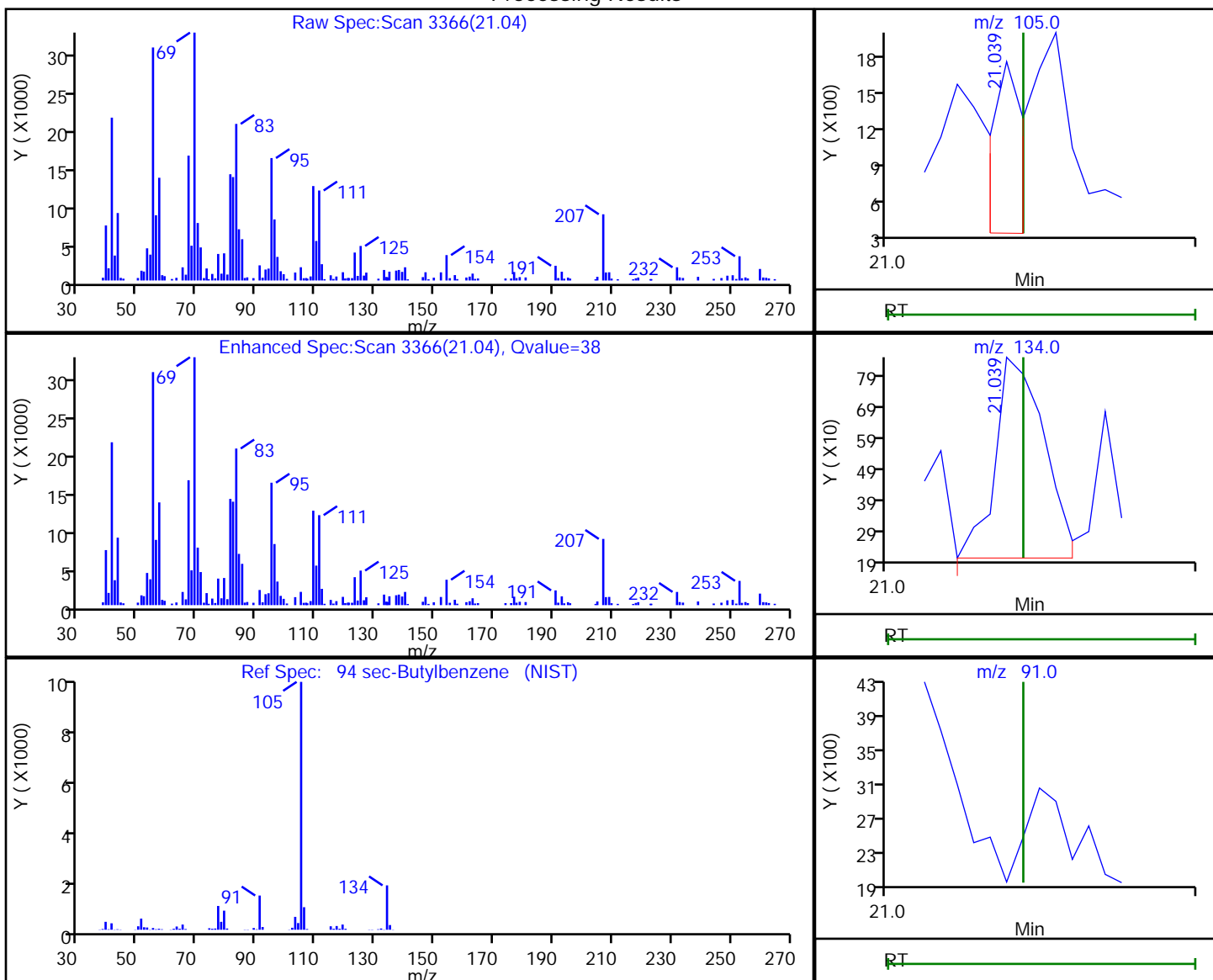
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.04 | 105.00 | 986      | 0.003043 |
| 21.04 | 134.00 | 722      |          |
| 21.04 | 91.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:20  
 Audit Action: Marked Compound Undetected

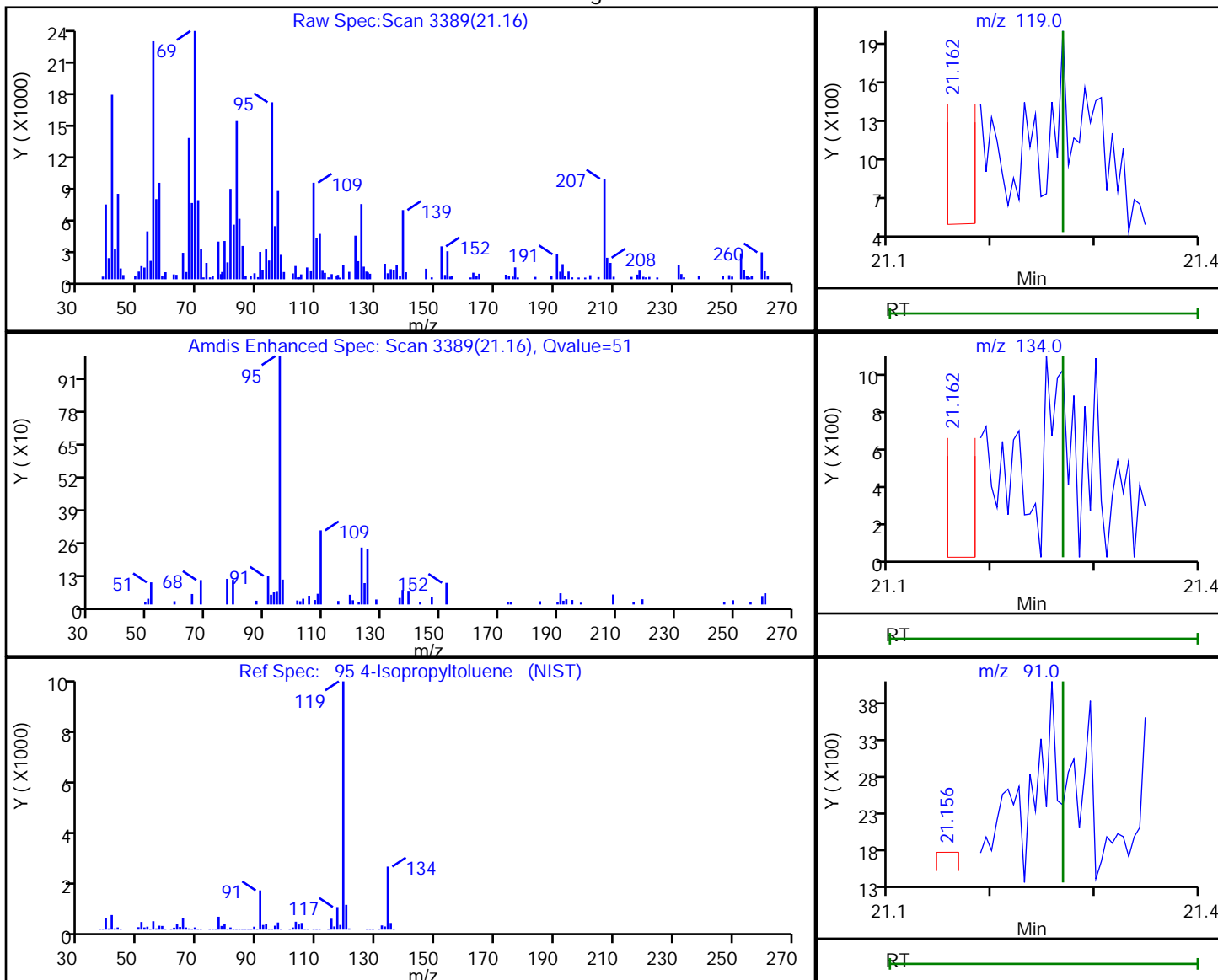
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.16 | 119.00 | 936      | 0.003370 |
| 21.16 | 134.00 | 665      |          |
| 21.16 | 91.00  | 3573     |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:23

Audit Action: Marked Compound Undetected

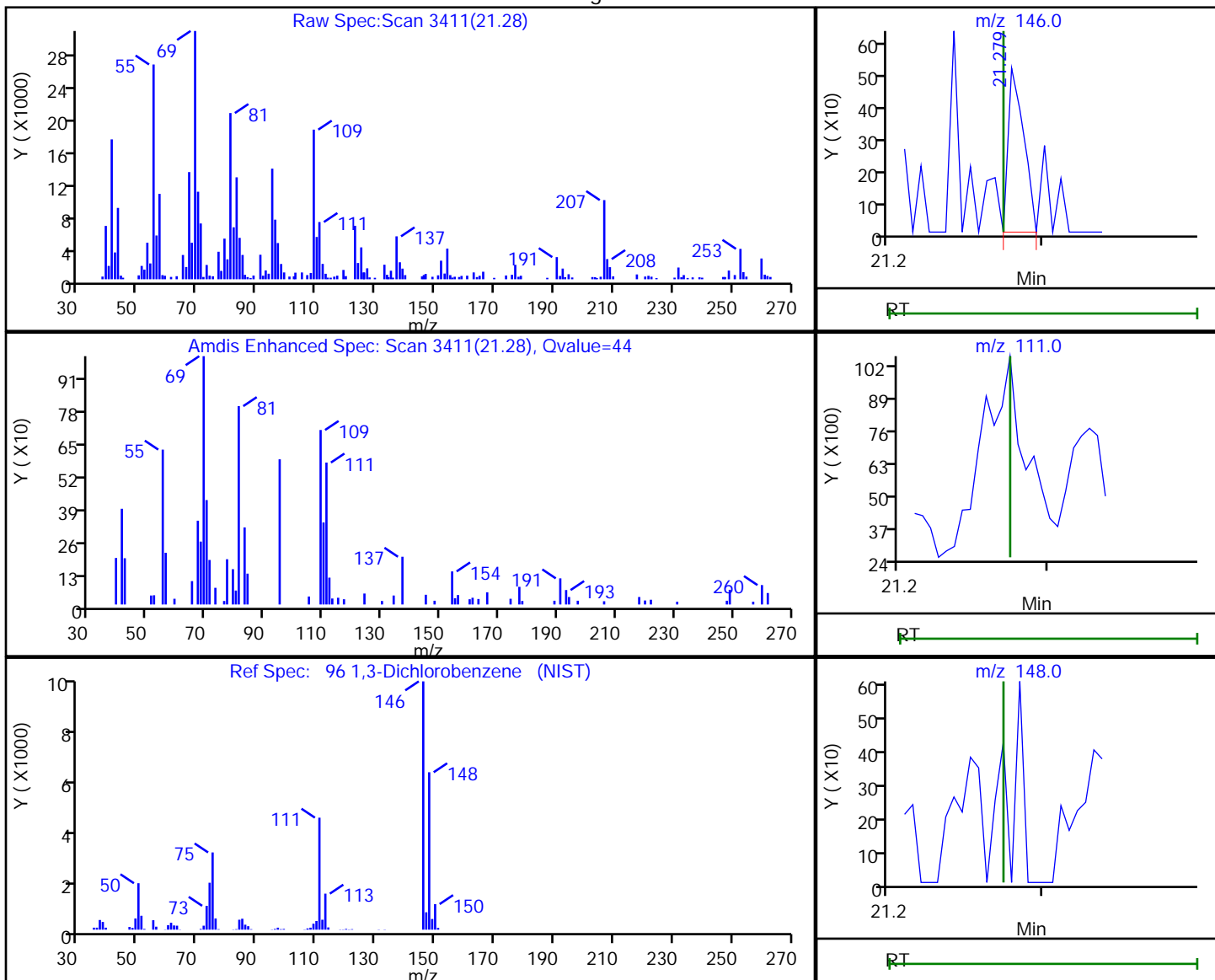
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.28 | 146.00 | 363      | 0.001943 |
| 21.27 | 111.00 | 0        |          |
| 21.27 | 148.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:26  
 Audit Action: Marked Compound Undetected

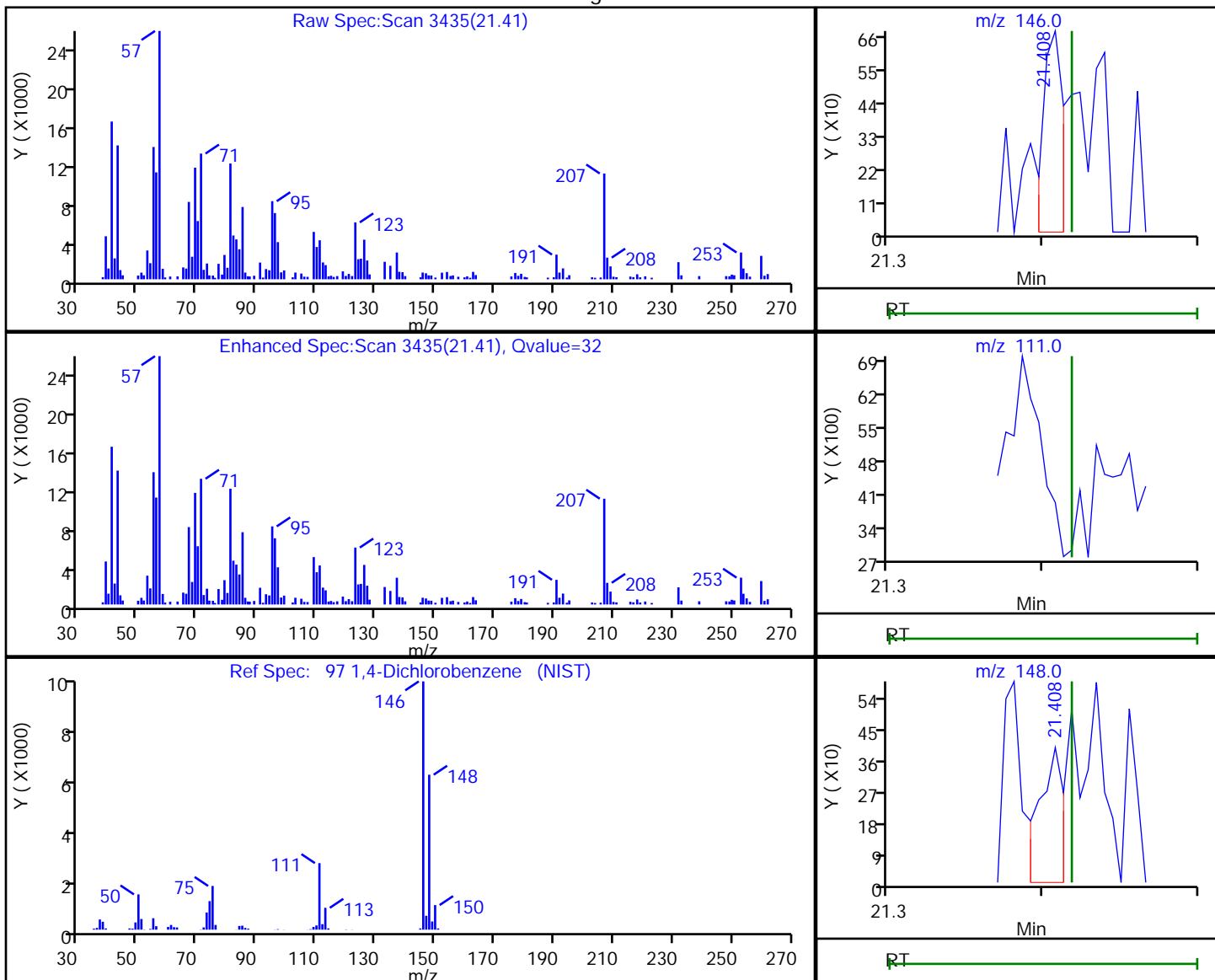
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.41 | 146.00 | 607      | 0.003398 |
| 21.41 | 148.00 | 430      |          |
| 21.42 | 111.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:28

Audit Action: Marked Compound Undetected

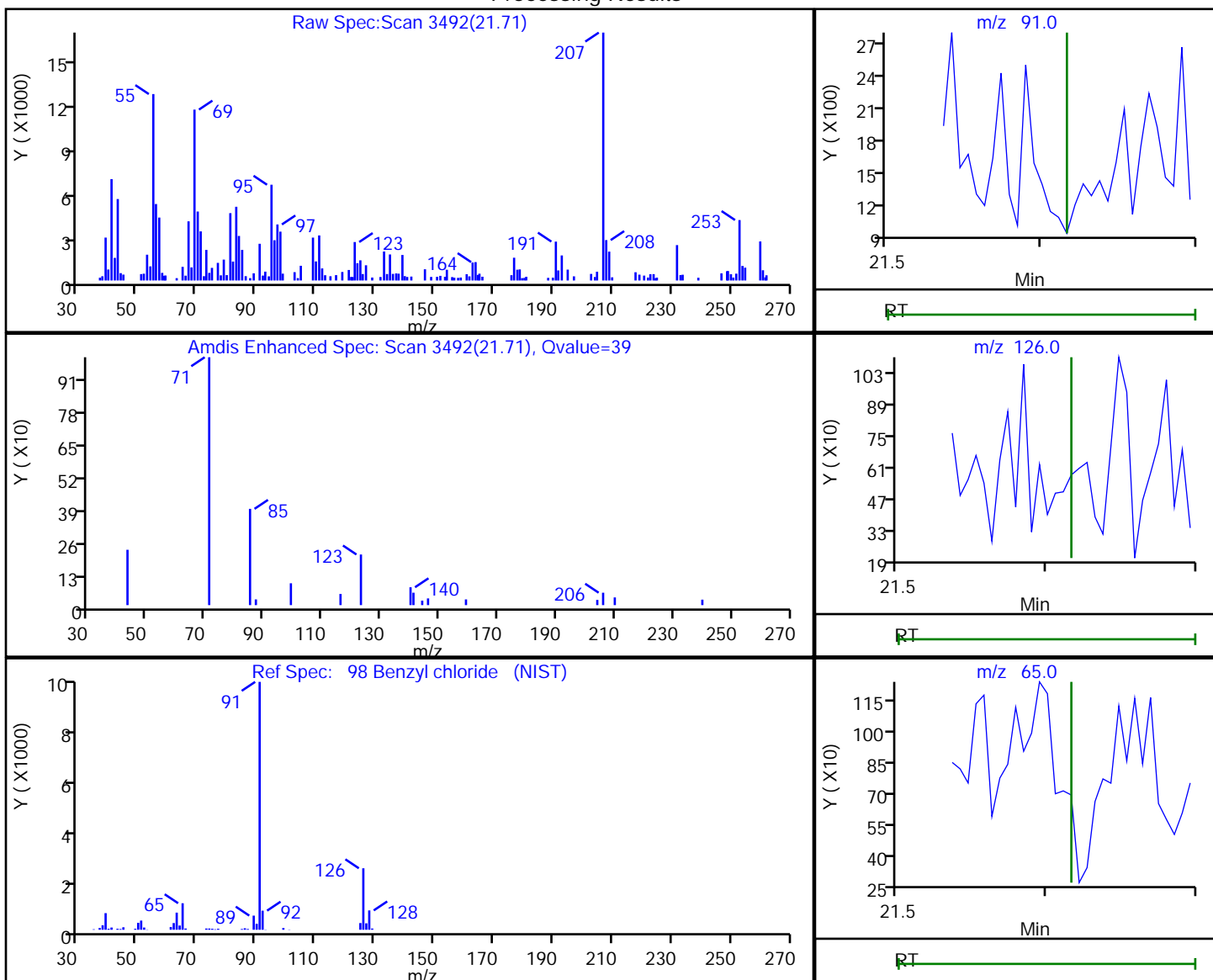
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.71 | 91.00  | 1624     | 0.007365 |
| 21.62 | 126.00 | 0        |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:30

Audit Action: Marked Compound Undetected

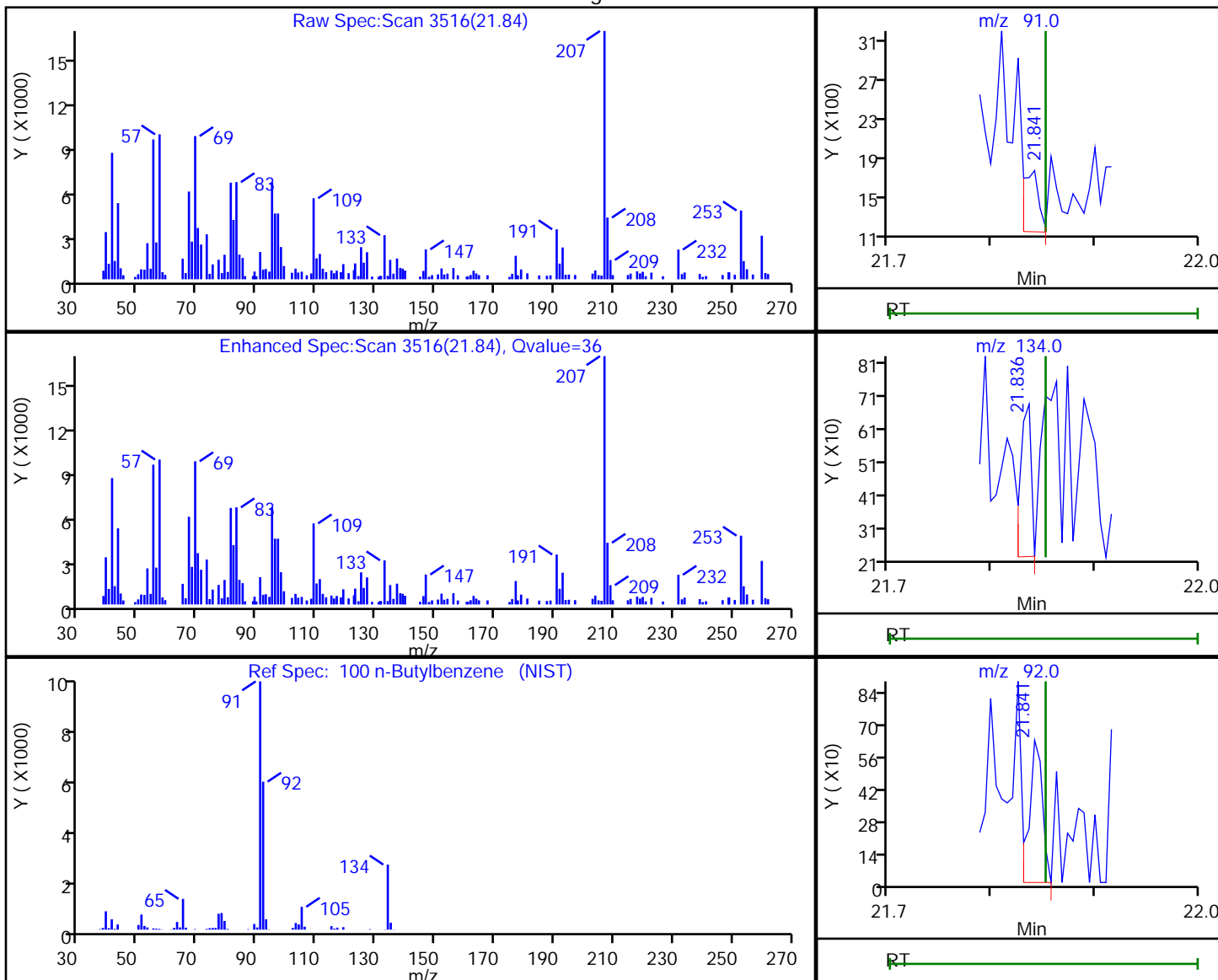
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.84 | 91.00  | 646      | 0.002551 |
| 21.84 | 134.00 | 331      |          |
| 21.84 | 92.00  | 553      |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:31

Audit Action: Marked Compound Undetected

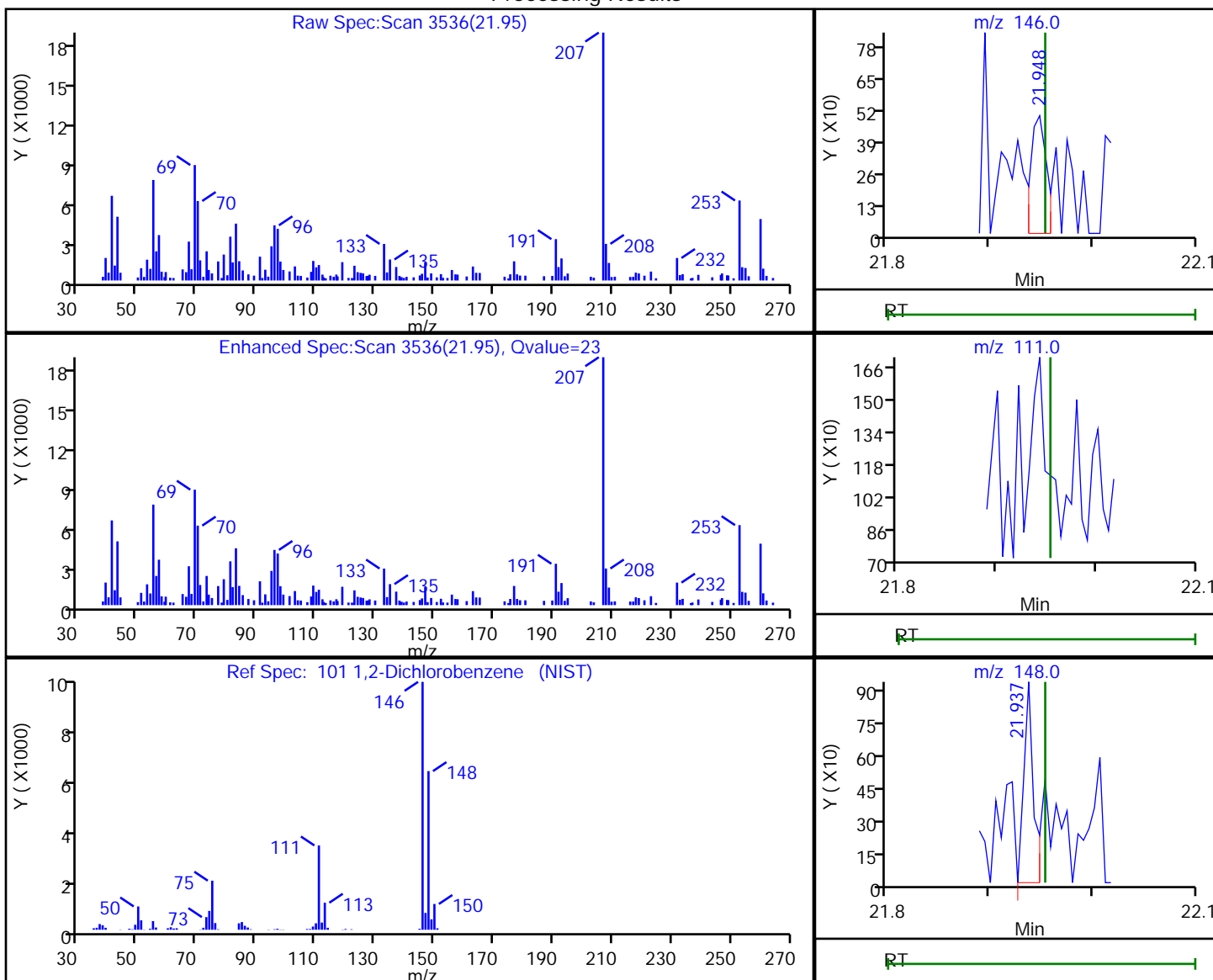
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 524      | 0.003052 |
| 21.94 | 148.00 | 611      |          |
| 21.95 | 111.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

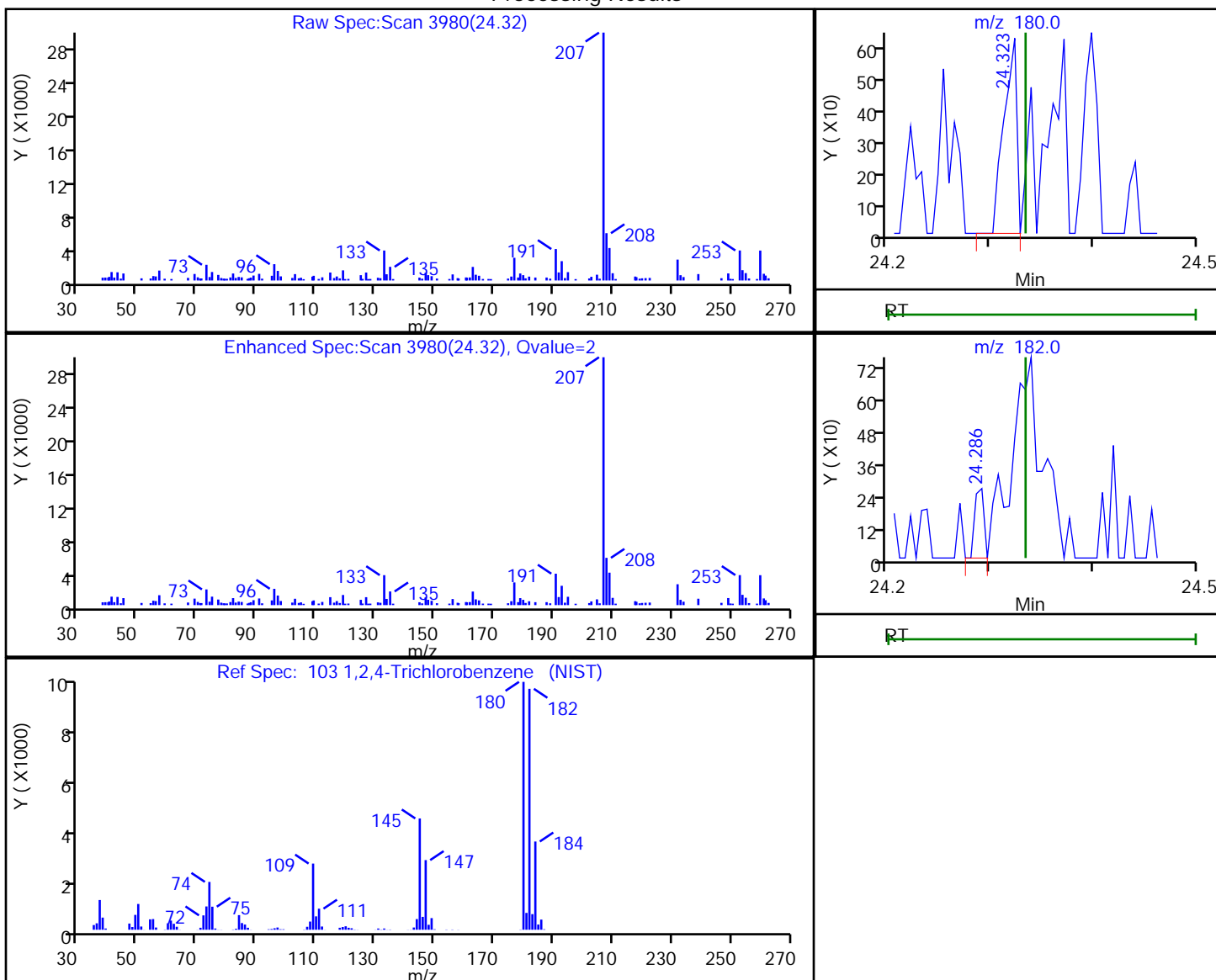


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.32 | 180.00 | 543      | 0.004208 |
| 24.29 | 182.00 | 162      |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:37

Audit Action: Marked Compound Undetected

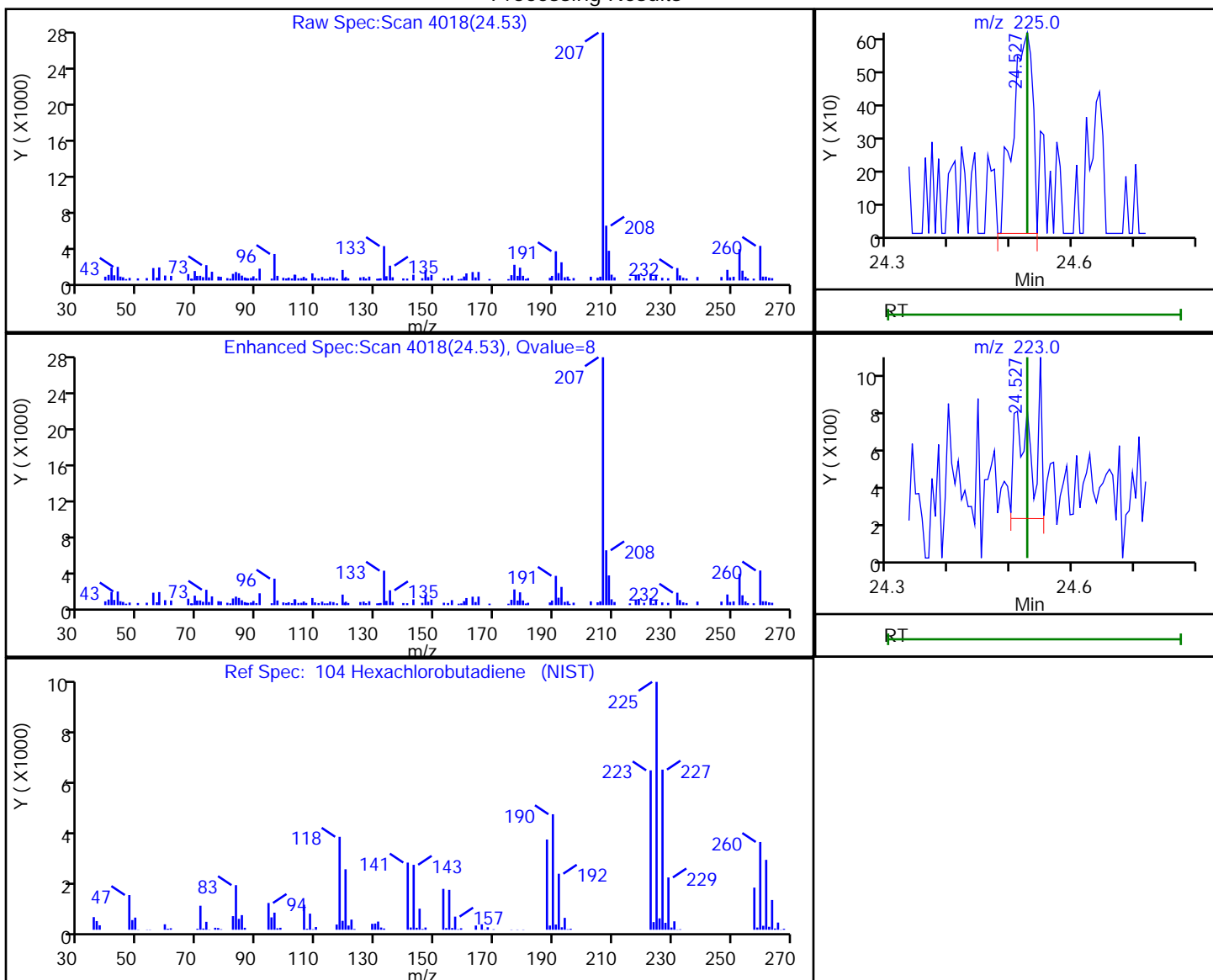
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
 Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
 Client ID: MP-2\_20181120  
 Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 20.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 1350     | 0.010517 |
| 24.53 | 223.00 | 1236     |          |

Reviewer: bunmaa, 07-Dec-2018 09:38:39

Audit Action: Marked Compound Undetected

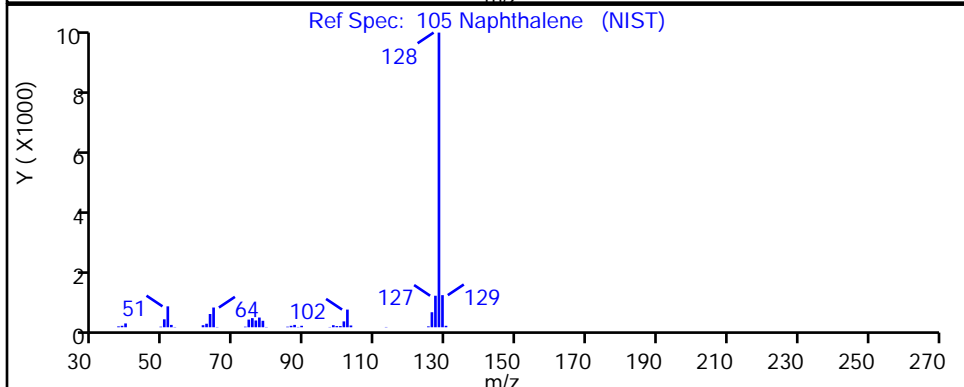
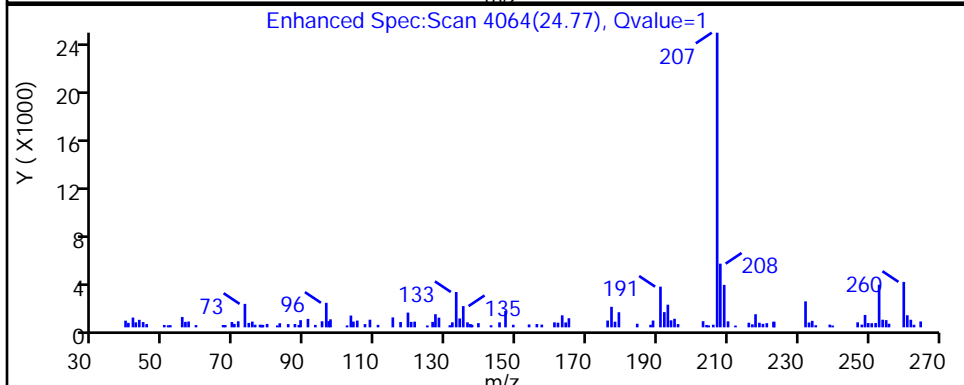
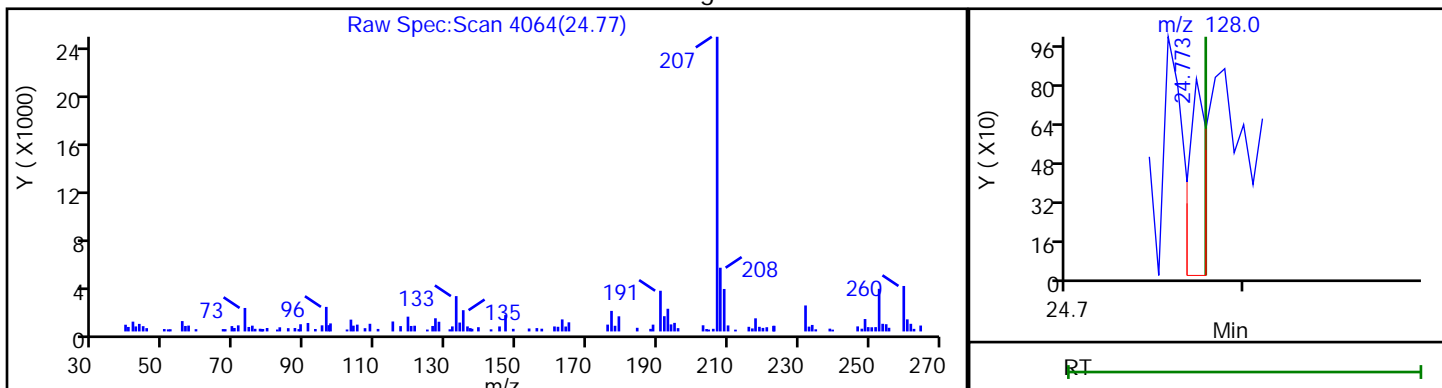
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-024.D  
Injection Date: 06-Dec-2018 09:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-8 Lab Sample ID: 200-46353-8  
Client ID: MP-2\_20181120  
Operator ID: ert ALS Bottle#: 24 Worklist Smp#: 24  
Purge Vol: 200.000 mL Dil. Factor: 20.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.77 | 128.00 | 584      | 0.002334 |

Reviewer: bunmaa, 07-Dec-2018 09:38:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.86   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.76   |   | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.63   |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.2    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 2.5    |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 34     |   | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.99   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.6    |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.99   |   | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.80   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.053  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.24   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 4.4    |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.23   |   | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 3.6    |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.7    |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 1.3    |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.38   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 1.1    |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.47   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.40   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 4.3    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 2.7    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.3    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 14     |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 82     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 3.5    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 4.6    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 4.8    |   | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 2.7    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.33   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.76   |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 18     |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 1.2    |   | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 14     |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 12     |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 5.5    |   | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.6    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 5.0    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 2.0    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 2.0    |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Lims ID: 200-46353-A-9  
 Client ID: MP-3\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 10:13:30 ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-025  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 09:46:01 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0332

First Level Reviewer: guazzonig

Date: 06-Dec-2018 13:49:30

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.153         | -0.011         | 96 | 166521   | 0.8604            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | -0.005         | 28 | 62571    | 0.7595            | M     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.347     | 3.337         | -0.006         | 89 | 22242    | 0.1527            |       |
| 5 Chloromethane               | 50  | 3.454     | 3.463         | -0.011         | 98 | 23777    | 0.6314            |       |
| 6 Butane                      | 43  | 3.599     | 3.598         | -0.005         | 93 | 109489   | 2.16              |       |
| 7 Vinyl chloride              | 62  |           | 3.647         |                |    |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.711         |                |    |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |    |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |    |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |                |    |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.765     | 4.754         | 0.005          | 98 | 387064   | 2.53              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599     | 5.601         | -0.006         | 62 | 8013     | 0.0744            | M     |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |    |          | ND                | U     |
| 22 Acetone                    | 43  | 5.846     | 5.853         | -0.010         | 99 | 1389909  | 34.4              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.001         | 0.000          | 99 | 60036    | 0.4922            |       |
| 24 Isopropyl alcohol          | 45  | 6.108     | 6.156         | 0.011          | 99 | 60732    | 1.36              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |                |    |          | ND                |       |
| 27 Methylene Chloride         | 49  | 6.552     | 6.557         | -0.005         | 69 | 4098     | 0.0958            | M     |
| 28 2-Methyl-2-propanol        | 59  | 6.776     | 6.819         | 0.005          | 96 | 198661   | 2.91              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.948     | 6.943         | 0.000          | 57 | 1958     | 0.0341            |       |
| 29 Methyl tert-butyl ether    | 73  | 6.942     | 6.942         | -0.038         | 94 | 10744    | 0.1165            | M     |
| 33 Hexane                     | 57  | 7.290     | 7.275         | 0.011          | 90 | 45507    | 0.99              |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |                |    |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.724         |                |    |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.793     | 8.788         | 0.000          | 99 | 22714    | 1.57              |       |
| * 40 Chlorobromomethane       | 128 | 9.152     | 9.152         | 0.000          | 73 | 518756   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.210         |                |    |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.269     | 9.275         | 0.000          | 95 | 107395   | 0.99              |       |
| 43 Cyclohexane                | 84  | 9.521     | 9.531         | -0.010         | 89 | 34124    | 0.7976            |       |
| 44 1,1,1-Trichloroethane      | 97  | 9.548     | 9.537         | 0.006          | 46 | 9170     | 0.0885            | M     |
| 45 Carbon tetrachloride       | 117 | 9.767     | 9.778         | -0.016         | 23 | 5852     | 0.0529            |       |
| 46 Isooctane                  | 57  | 10.189    | 10.189        | -0.006         | 31 | 13158    | 0.0930            | M     |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.211        | -0.005        | 95 | 23695    | 0.2387            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                | U     |
| 49 n-Heptane                   | 43  | 10.564    | 10.559        | -0.011        | 90 | 224479   | 4.40              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 1864000  | 10.0              |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.478        | 0.000         | 51 | 14649    | 0.2255            | M     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 12.286        |               |    |          | ND                | U     |
| 58 Dichlorobromomethane        | 83  |           | 12.549        |               |    |          | ND                | U     |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                | U     |
| 65 Toluene                     | 92  | 14.057    | 14.068        | -0.011        | 94 | 306005   | 3.62              |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.143        | -0.005        | 95 | 176185   | 1.74              |       |
| 69 2-Hexanone                  | 43  | 15.528    | 15.528        | 0.021         | 87 | 99734    | 1.34              |       |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.047        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957        | 0.000         | 84 | 2086875  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.187    | 17.187        | 0.005         | 59 | 71944    | 0.3779            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.427        | 0.005         | 0  | 88259    | 1.14              |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.294        | -0.005        | 97 | 34516    | 0.4707            |       |
| 80 Styrene                     | 104 | 18.342    | 18.342        | 0.005         | 48 | 17192    | 0.1531            |       |
| 81 Bromoform                   | 173 | 18.776    | 18.775        | -0.005        | 53 | 8229     | 0.0744            | M     |
| 82 Isopropylbenzene            | 105 |           | 19.049        |               |    |          | ND                | MU    |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.840        | 0.000         | 65 | 25957    | 0.1017            |       |
| 89 2-Chlorotoluene             | 91  |           | 20.044        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060        | 0.006         | 95 | 21131    | 0.0972            | M     |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.167        | 0.000         | 54 | 22847    | 0.1228            | M     |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.803        | 0.000         | 94 | 73570    | 0.4010            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 | 21.263    | 21.275        | -0.006        | 54 | 15521    | 0.0702            |       |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.274        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.418        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.953        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 | 24.778    | 24.786        | 0.000         | 94 | 7618     | 0.0383            |       |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Worklist Smp#: 25

Client ID: MP-3\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

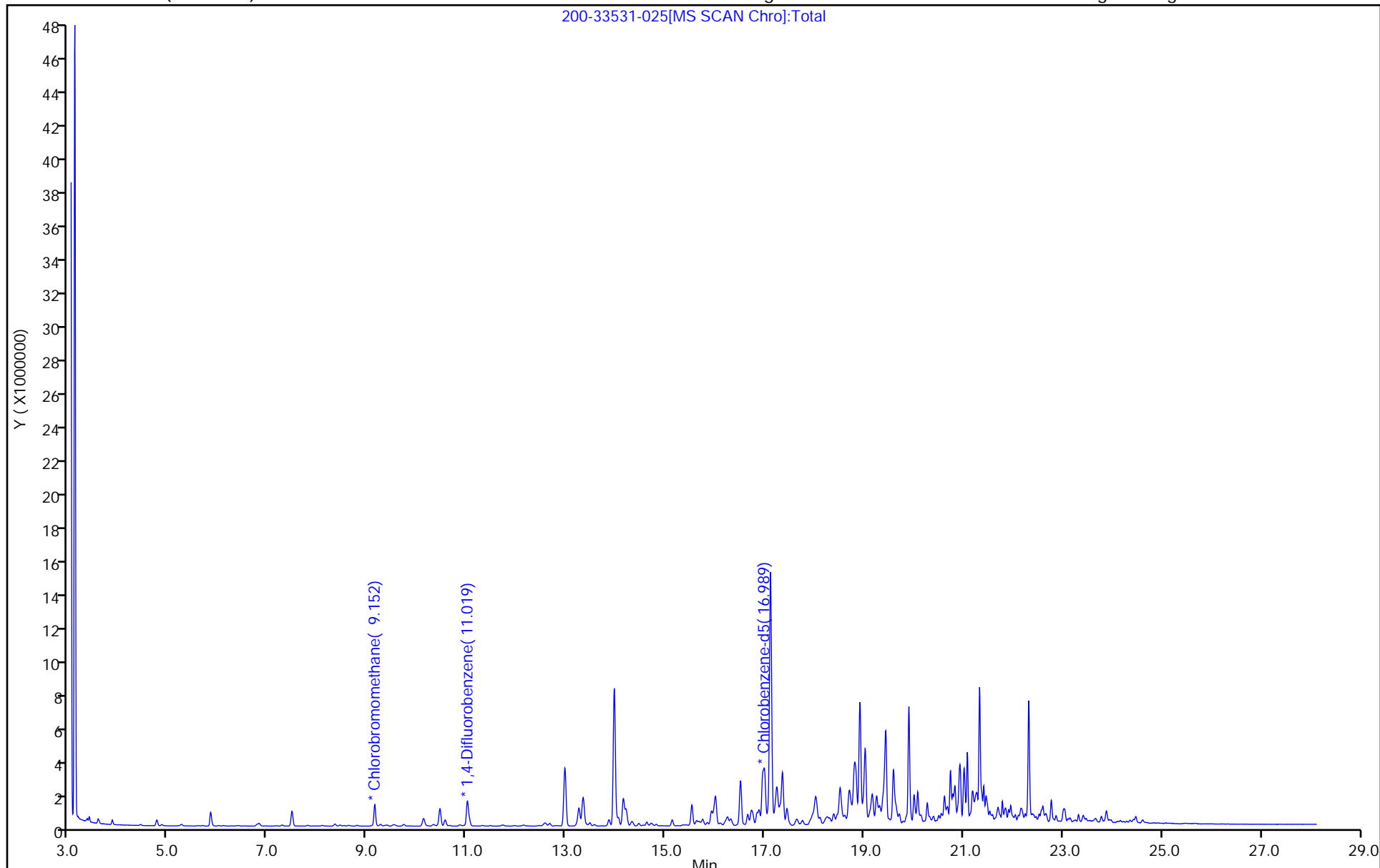
ALS Bottle#: 25

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

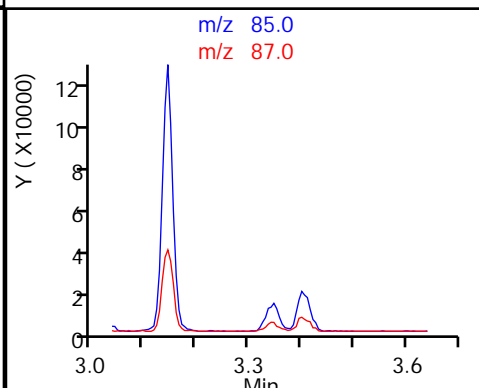
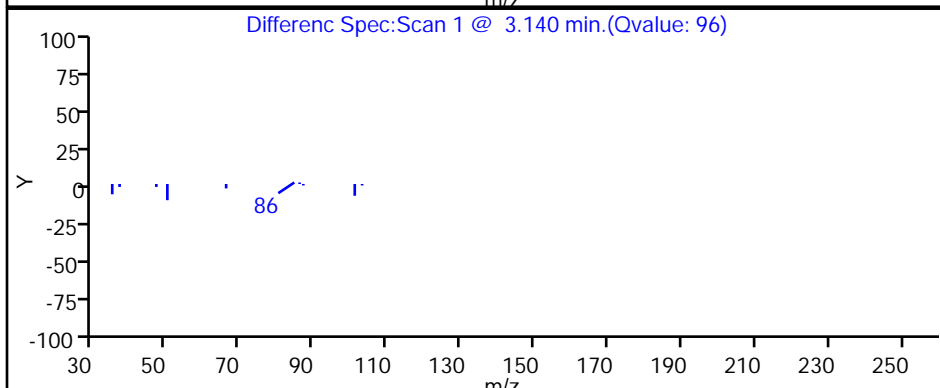
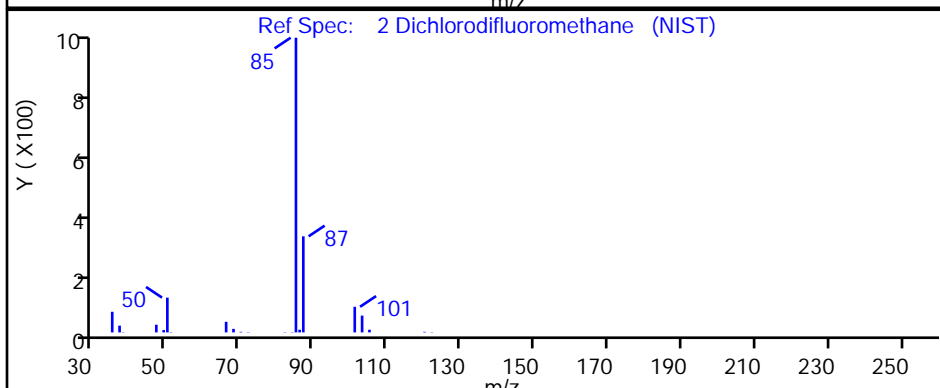
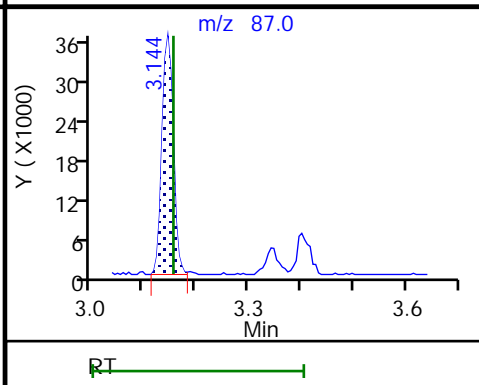
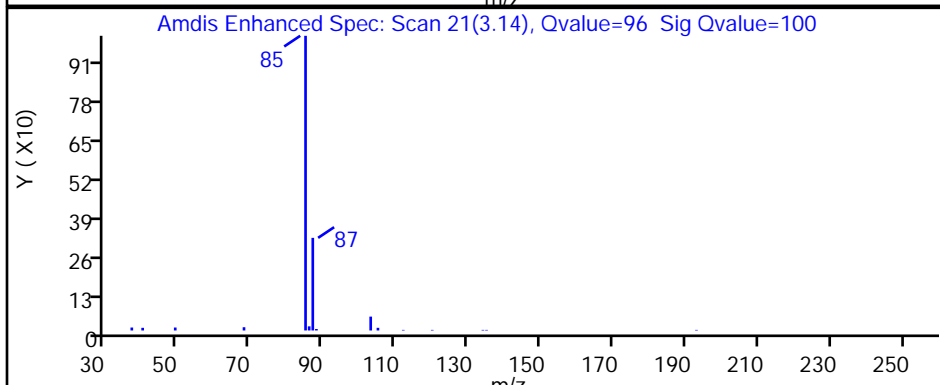
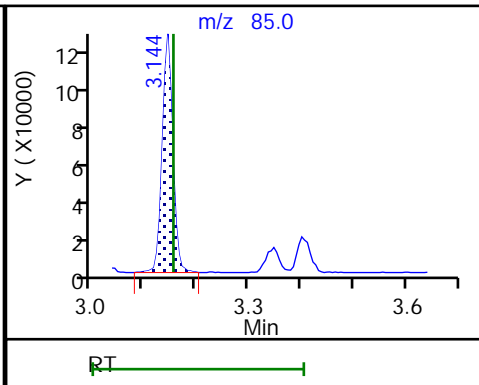
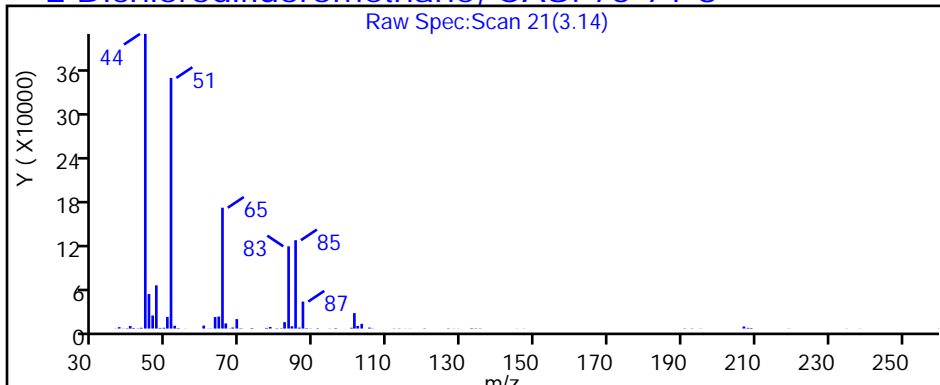
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25

Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

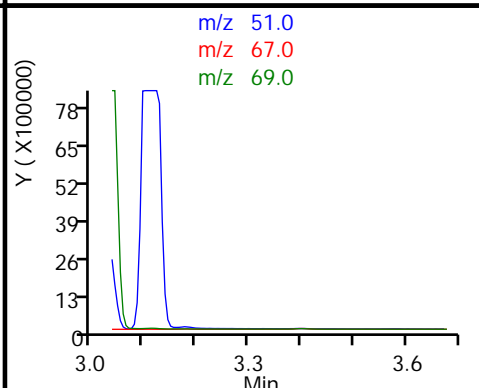
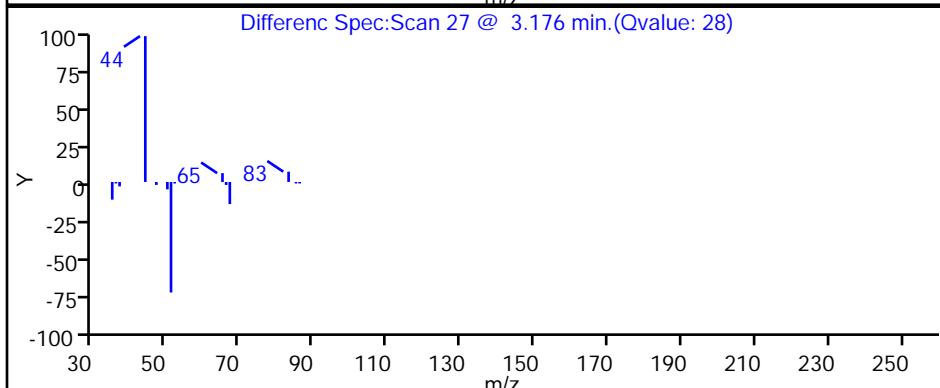
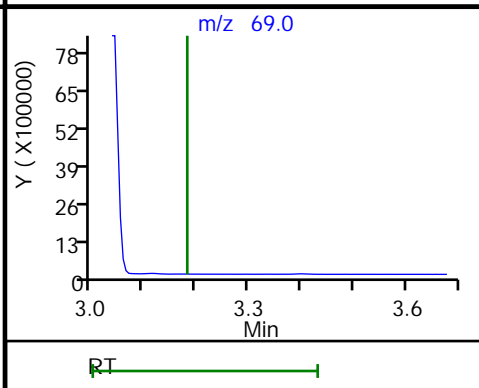
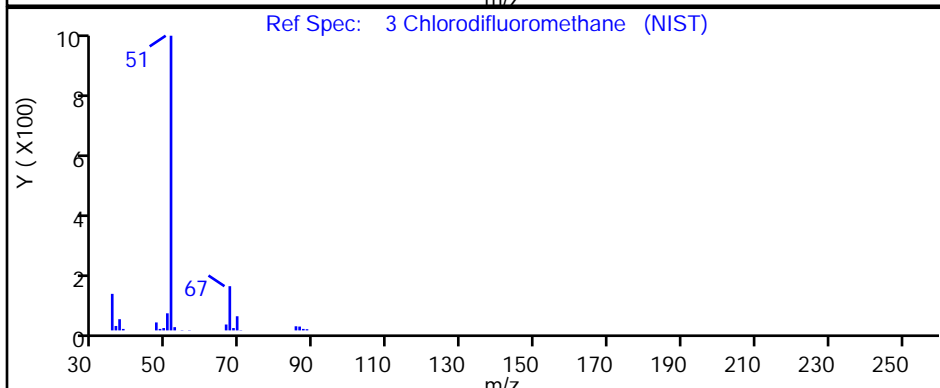
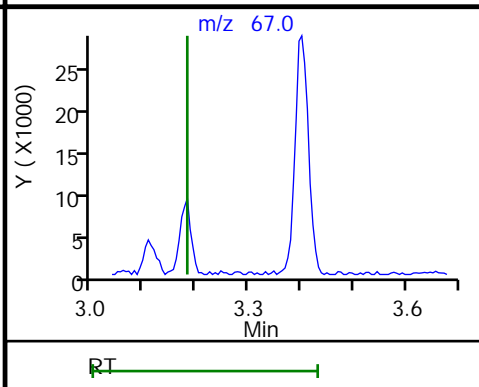
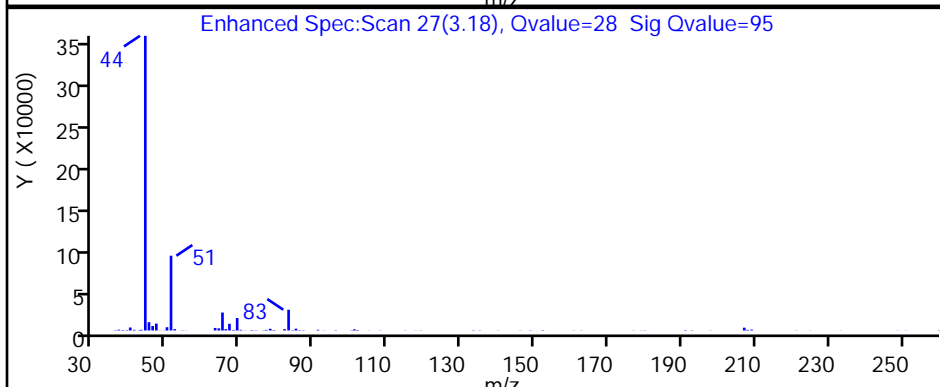
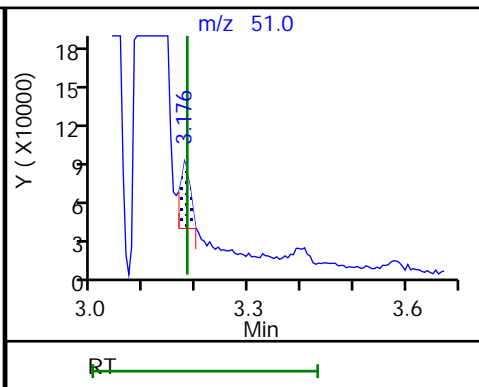
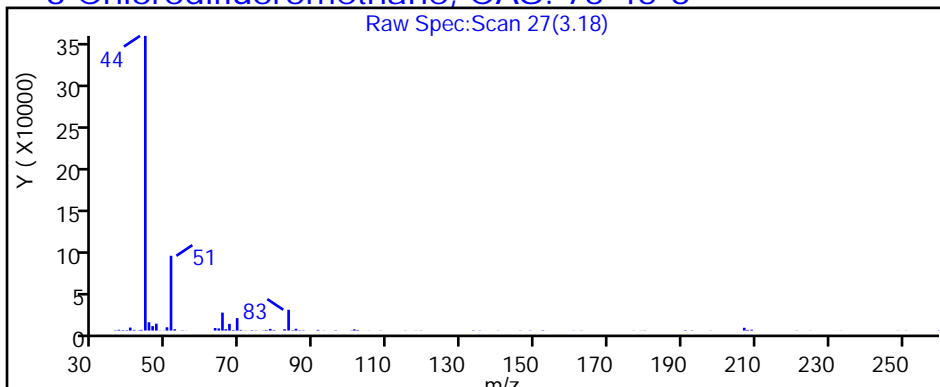
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

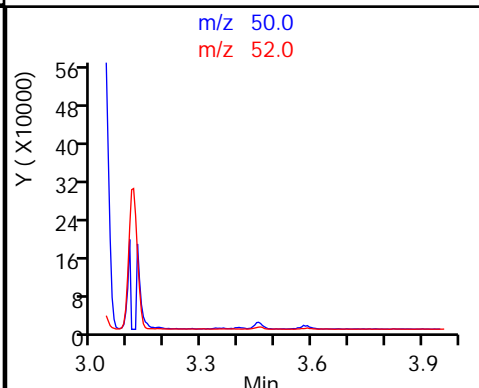
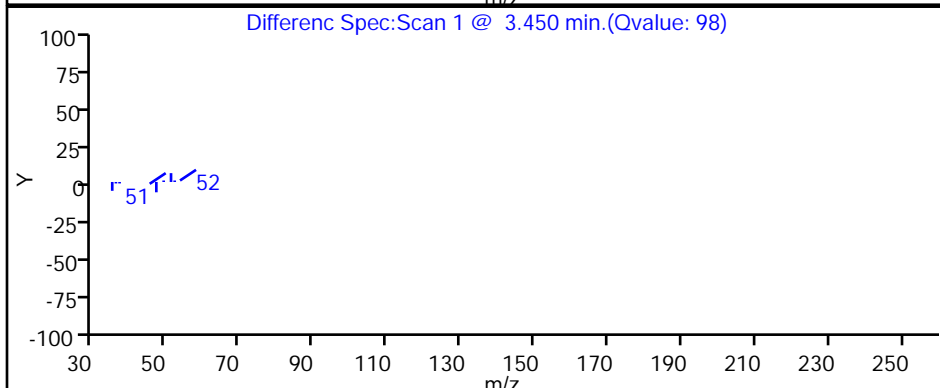
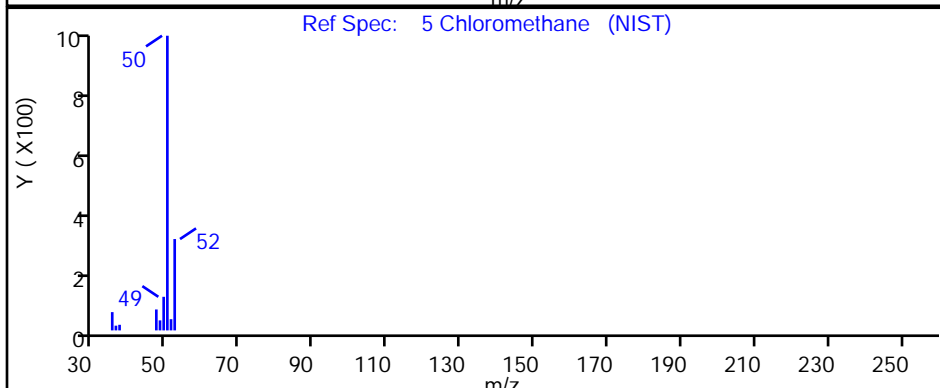
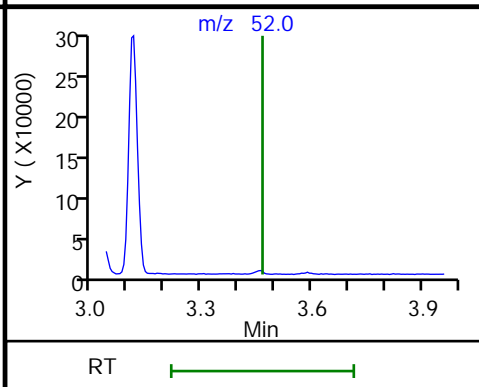
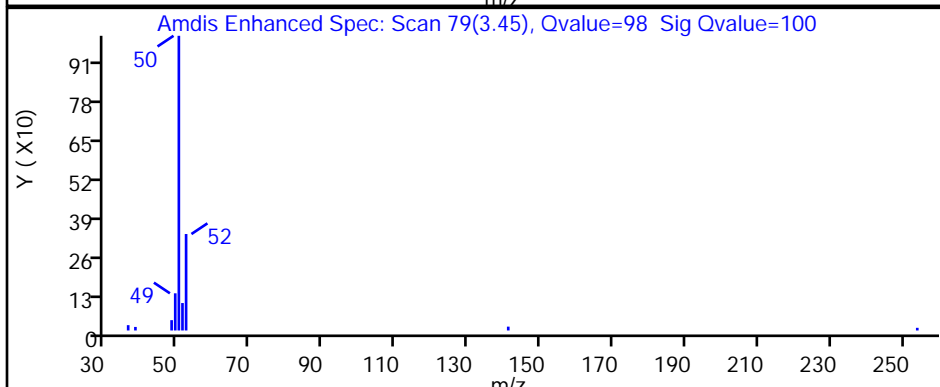
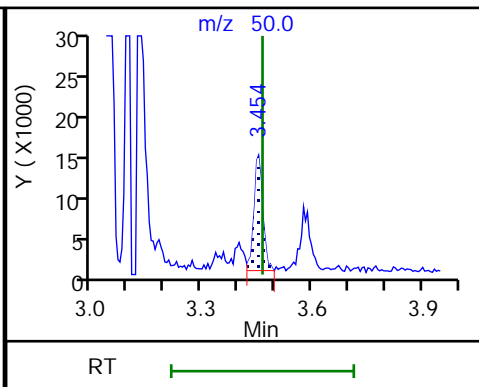
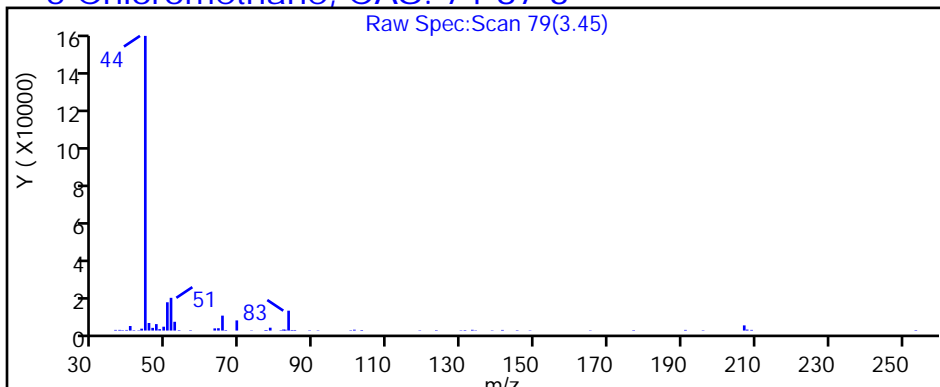
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

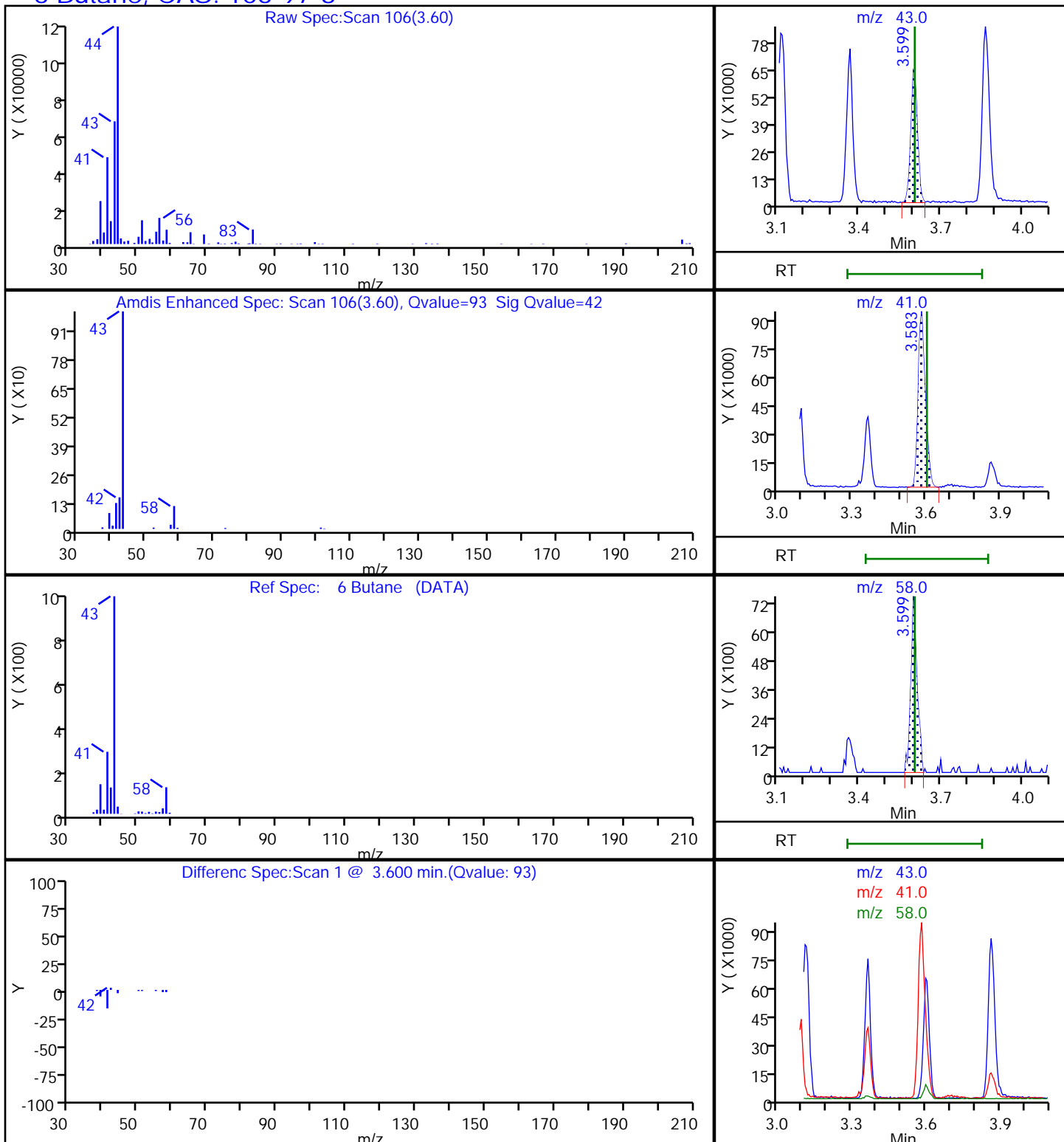
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

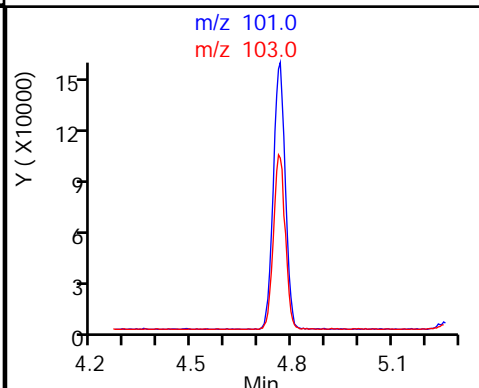
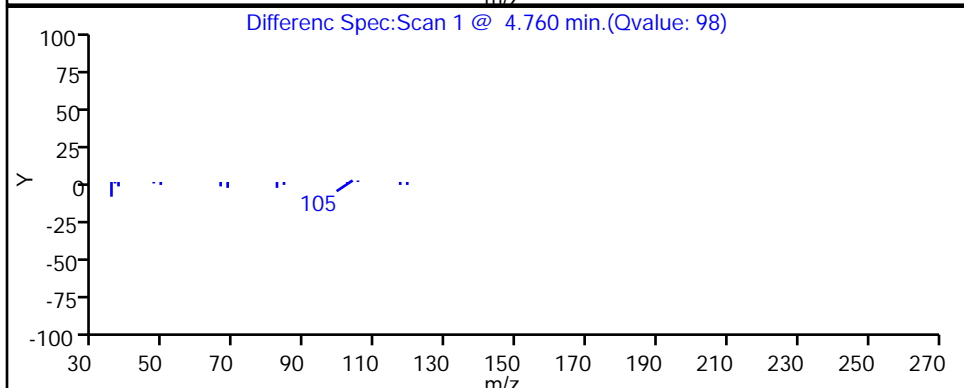
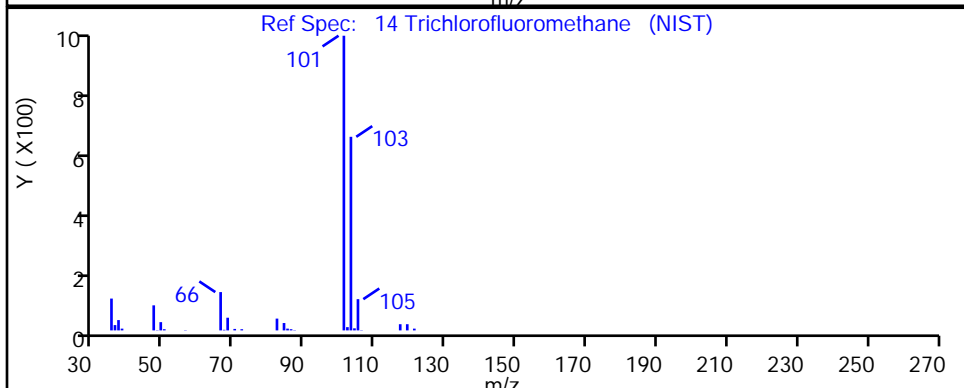
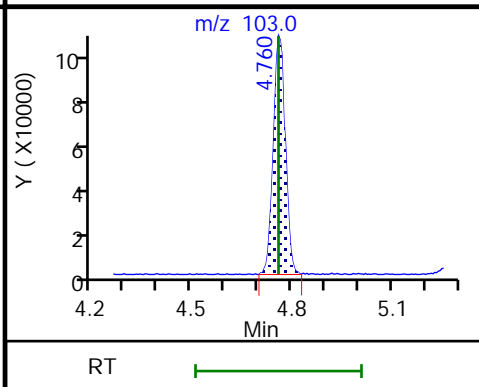
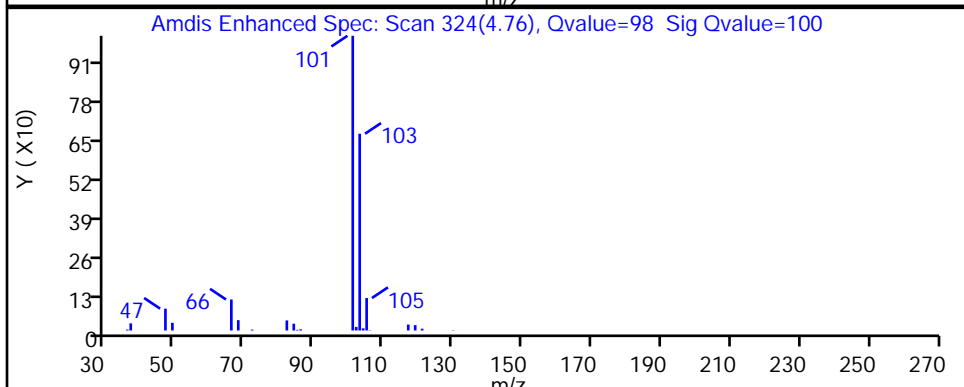
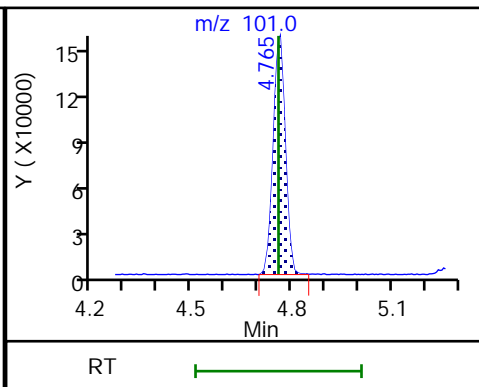
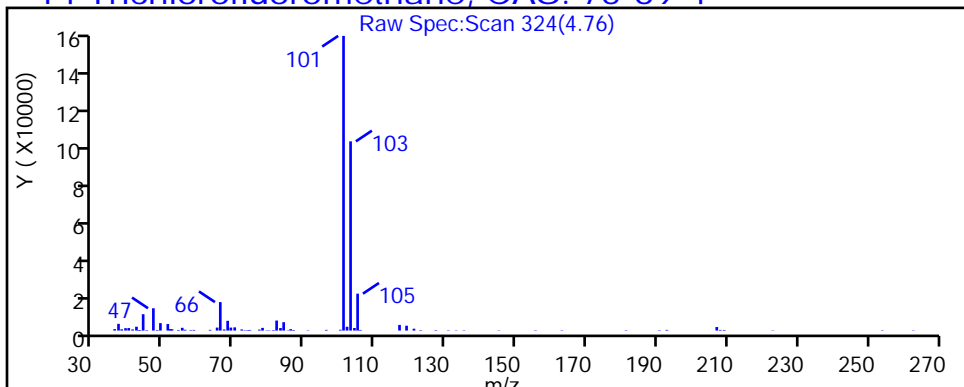
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

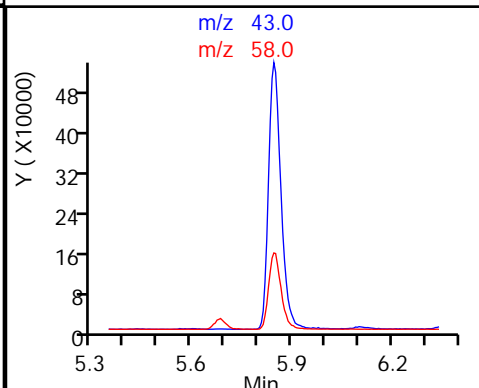
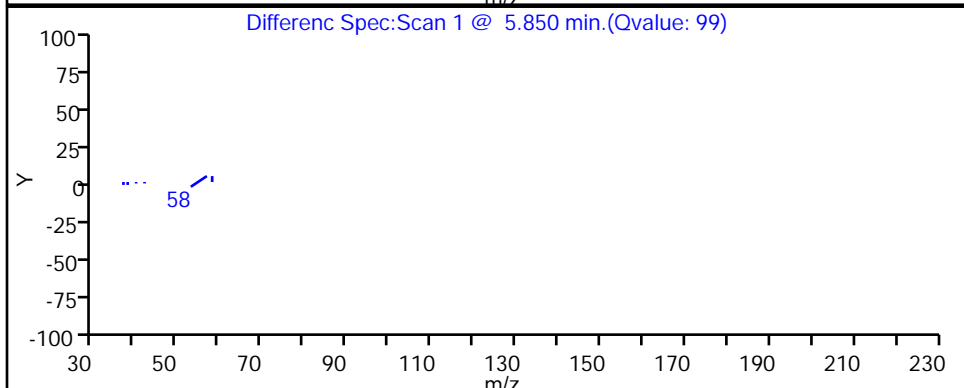
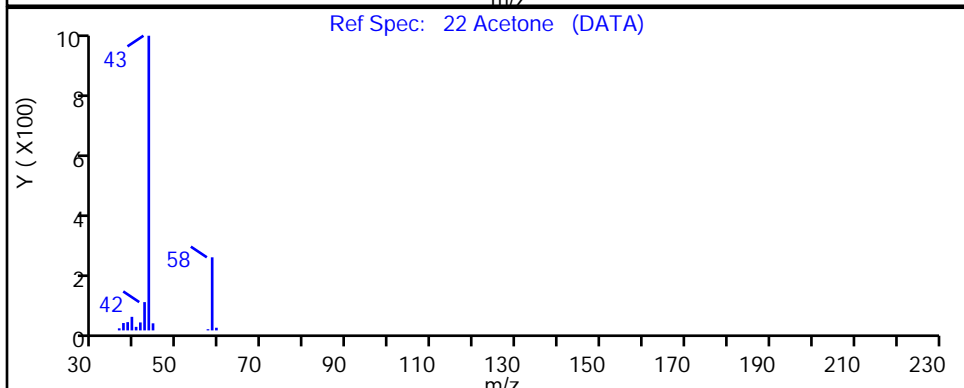
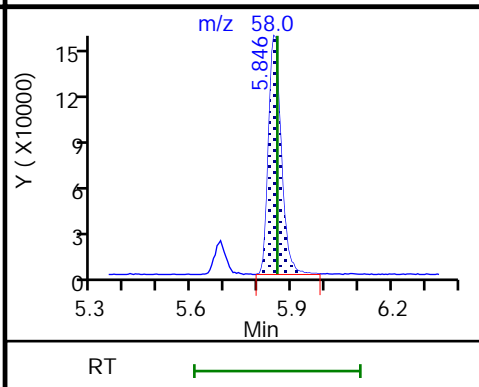
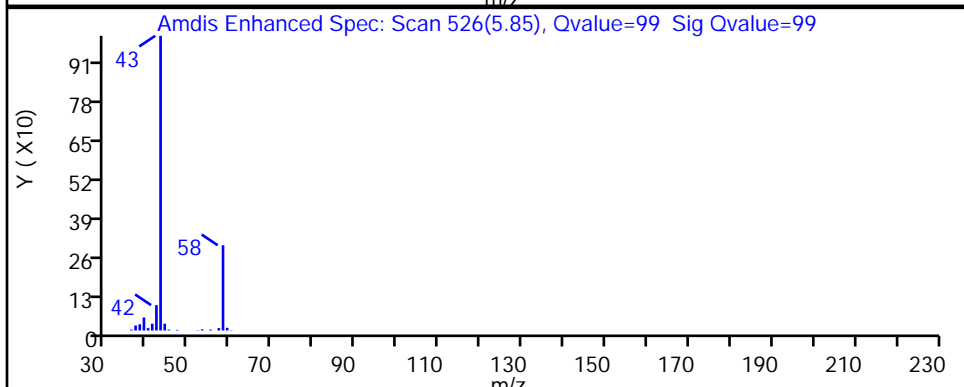
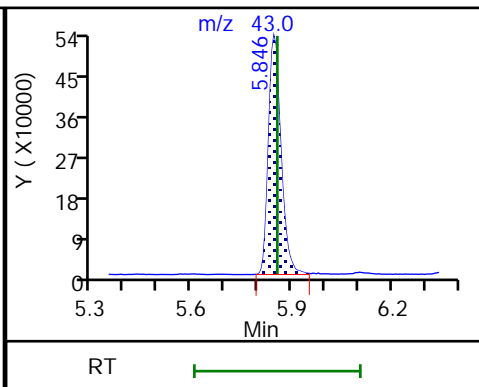
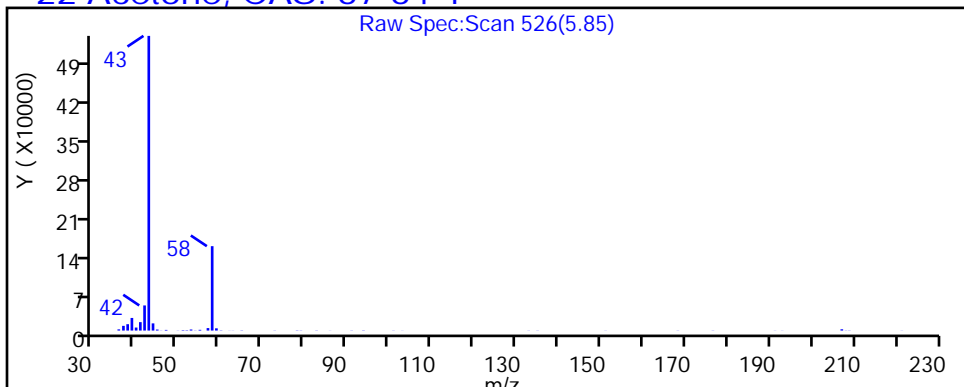
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

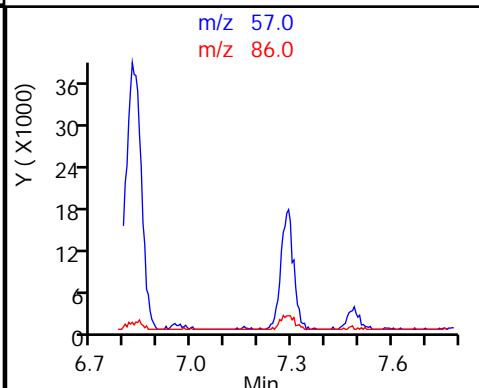
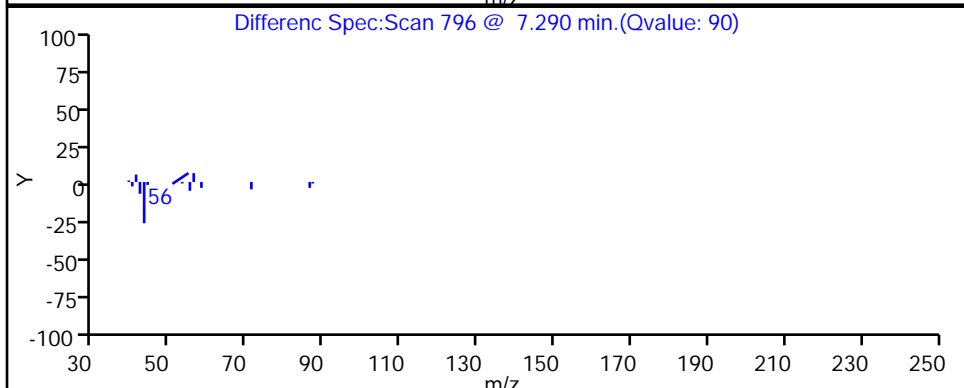
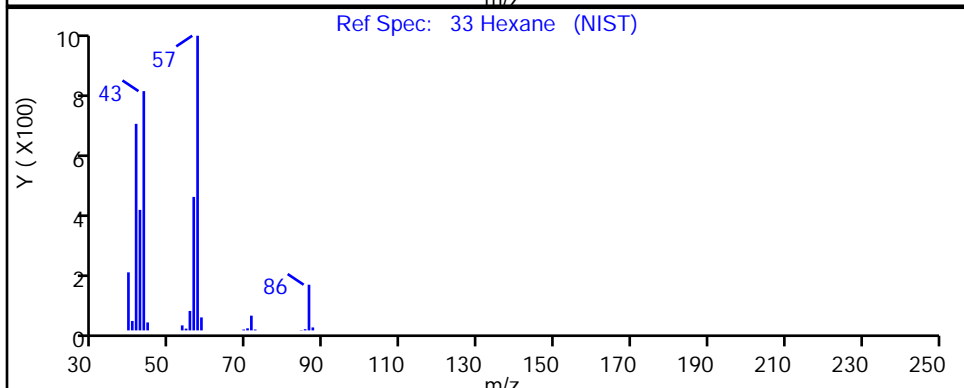
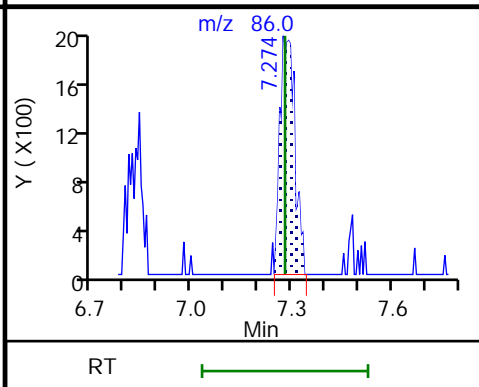
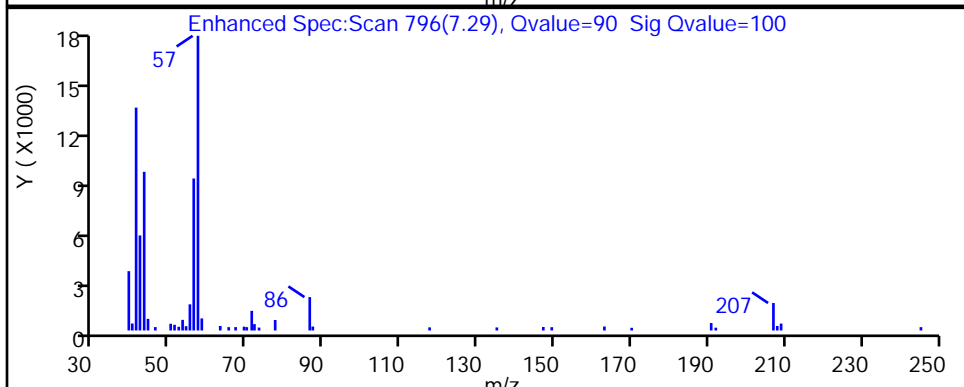
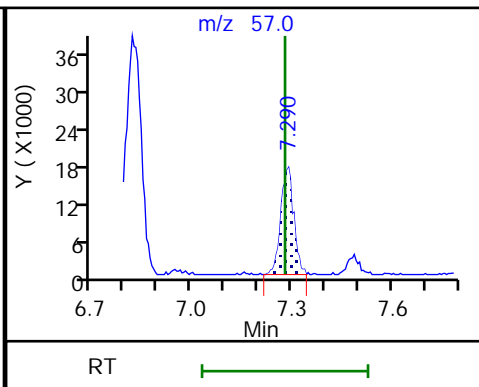
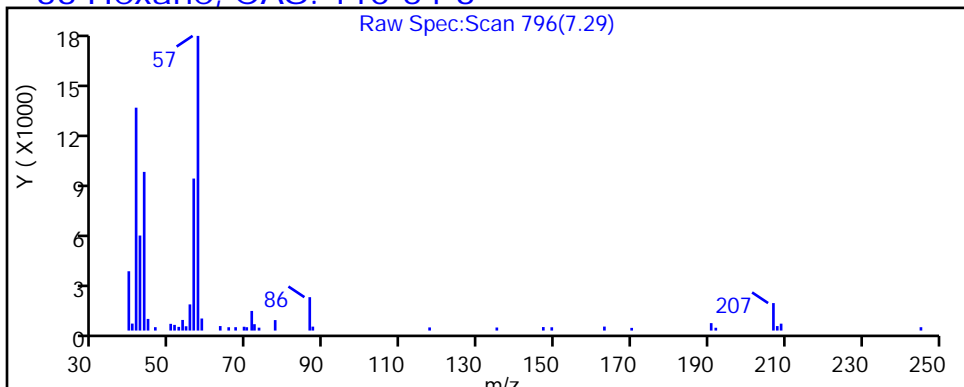
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

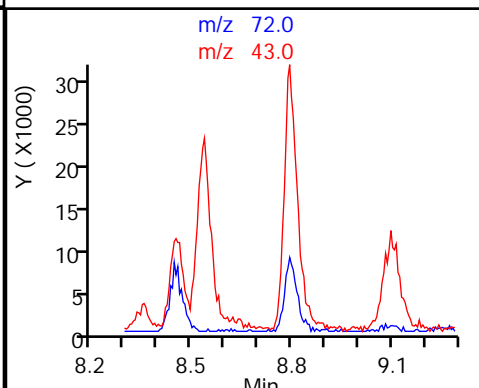
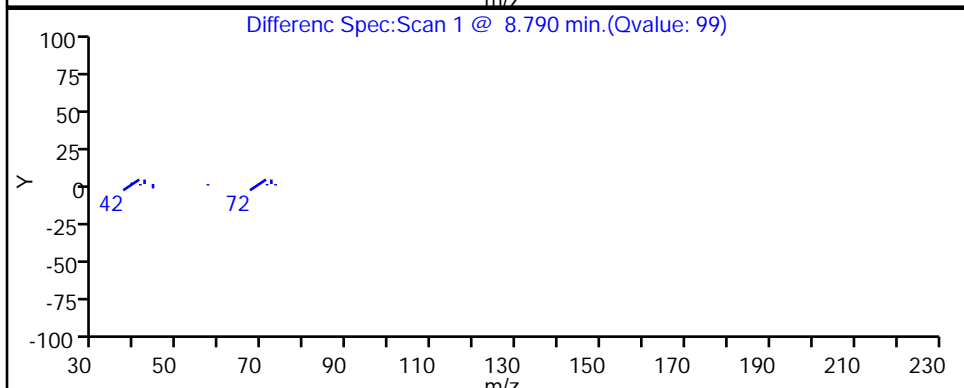
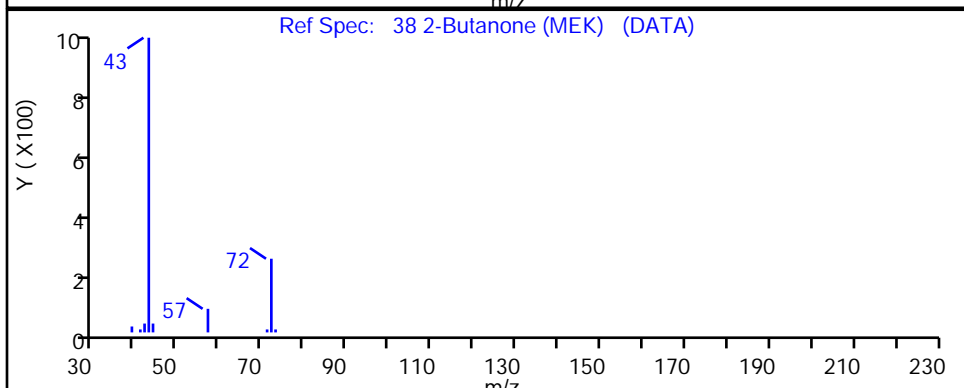
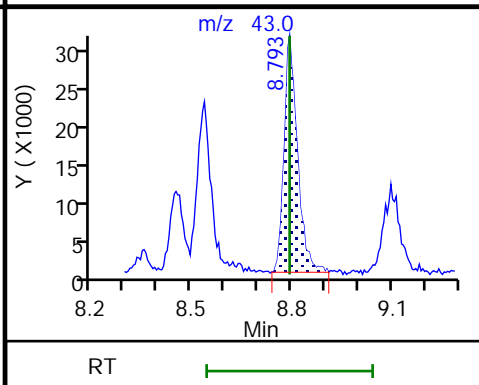
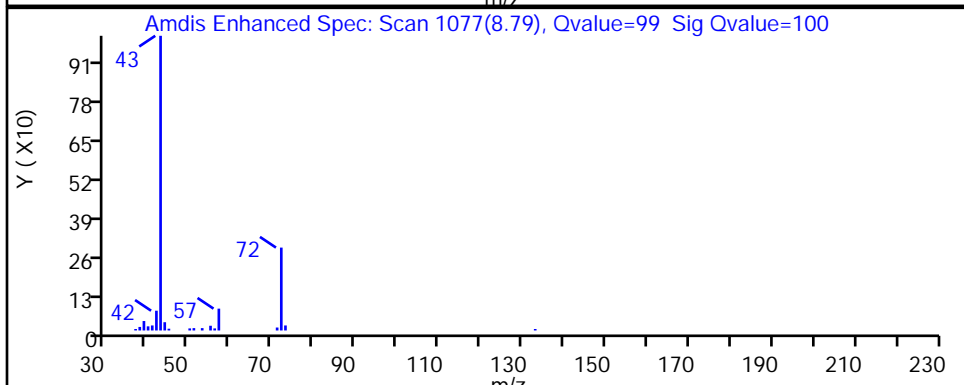
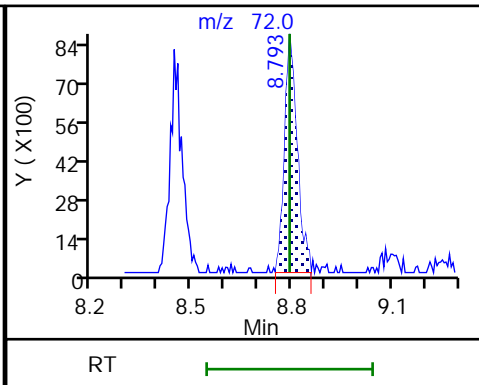
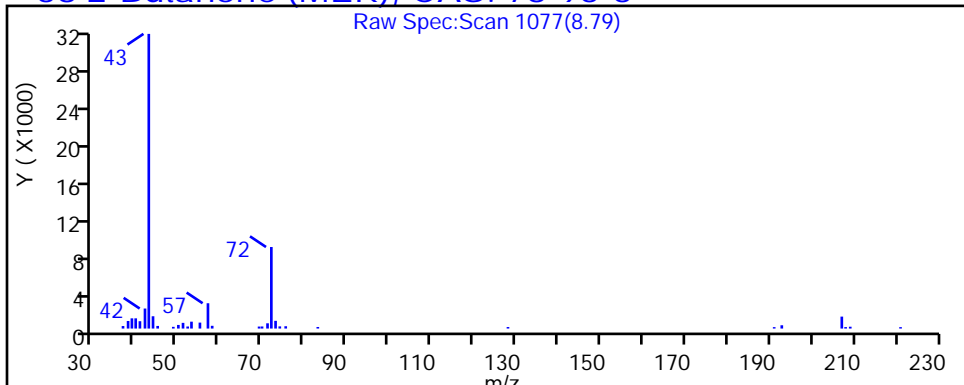
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

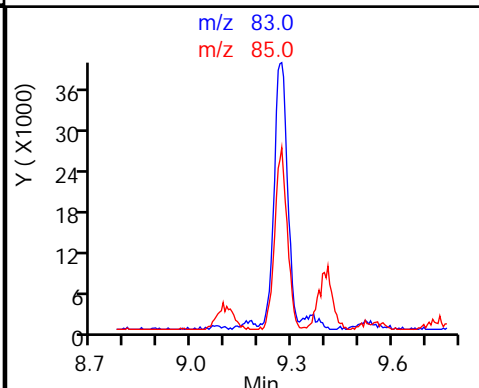
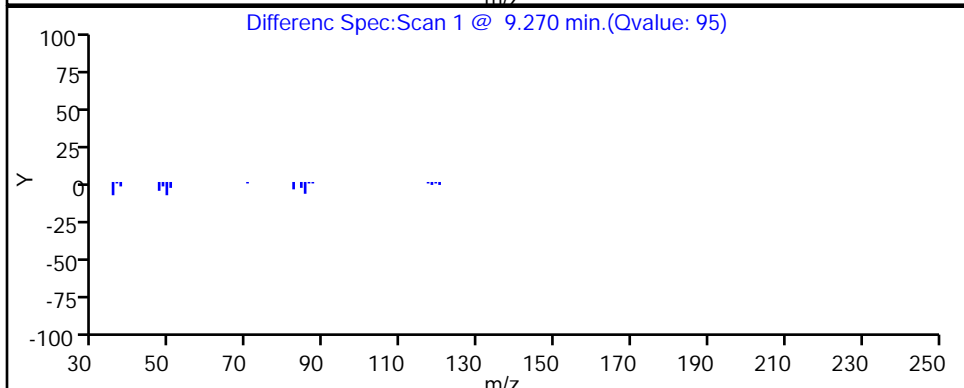
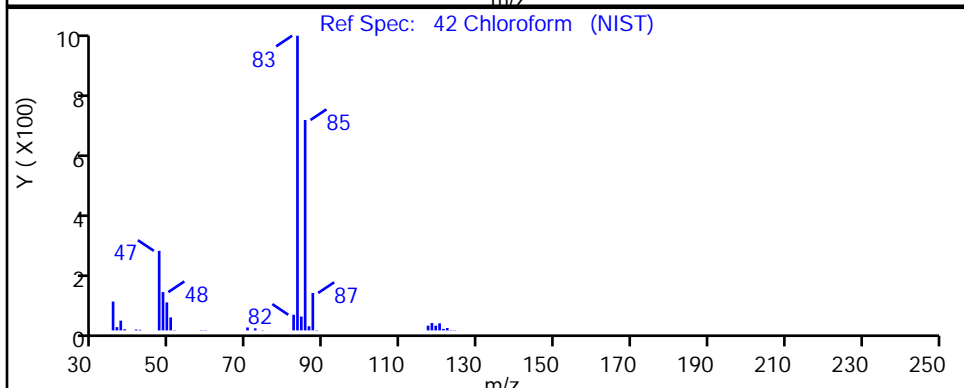
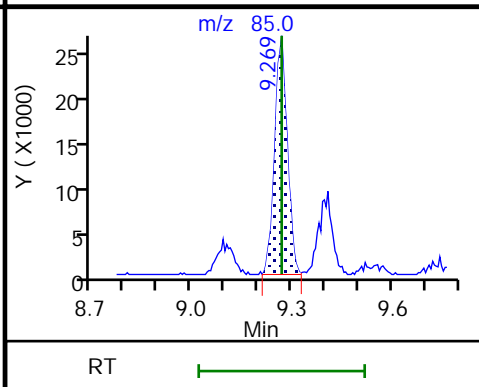
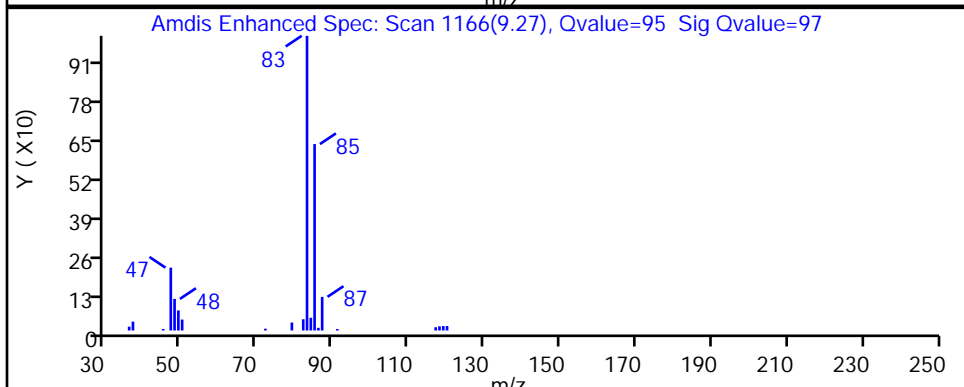
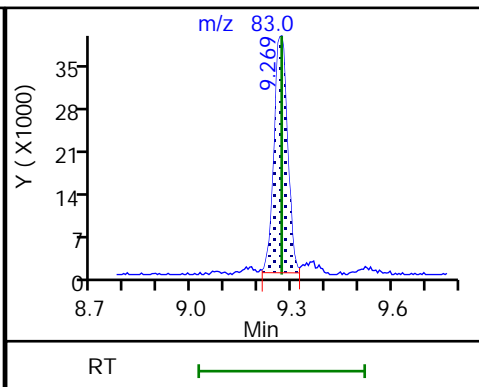
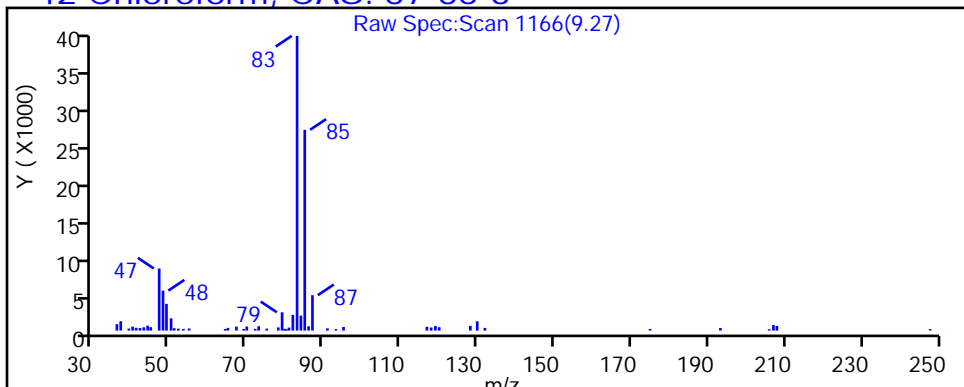
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

42 Chloroform, CAS: 67-66-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

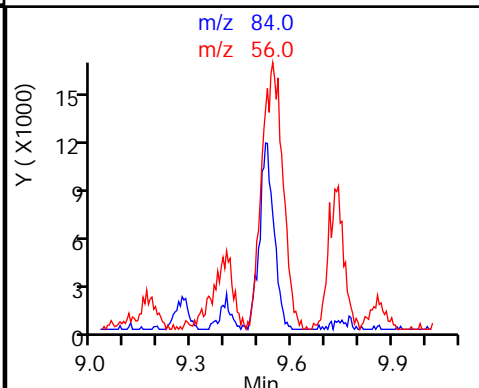
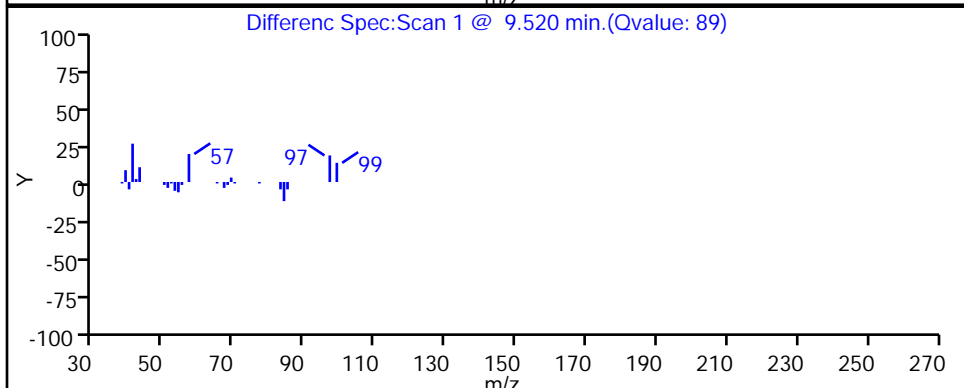
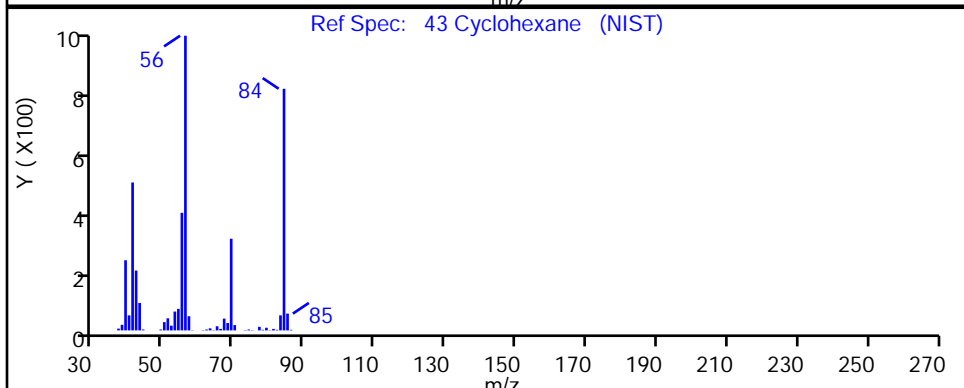
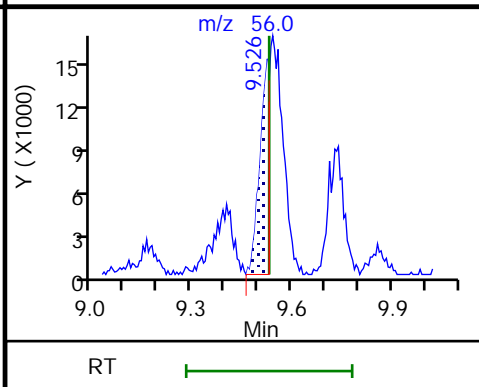
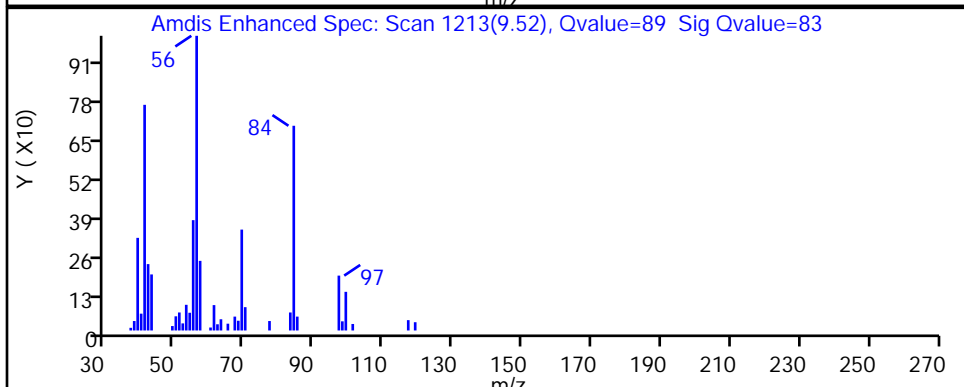
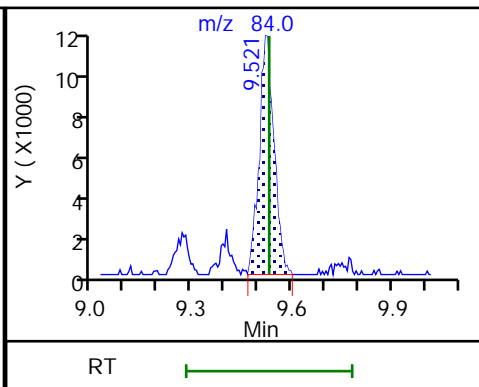
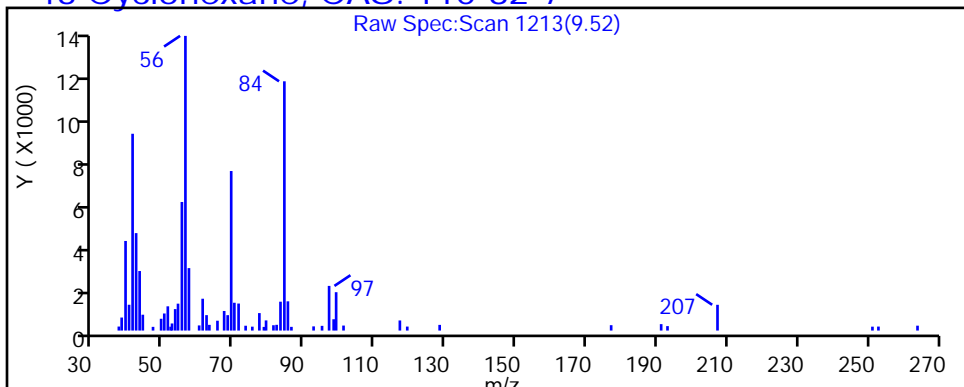
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

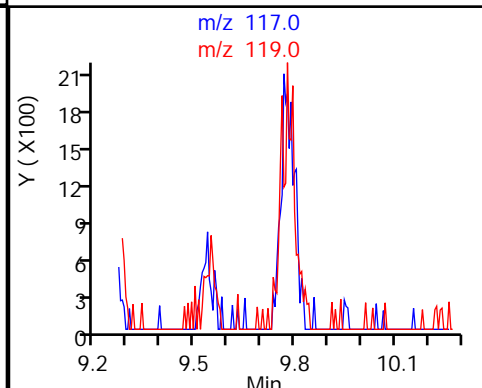
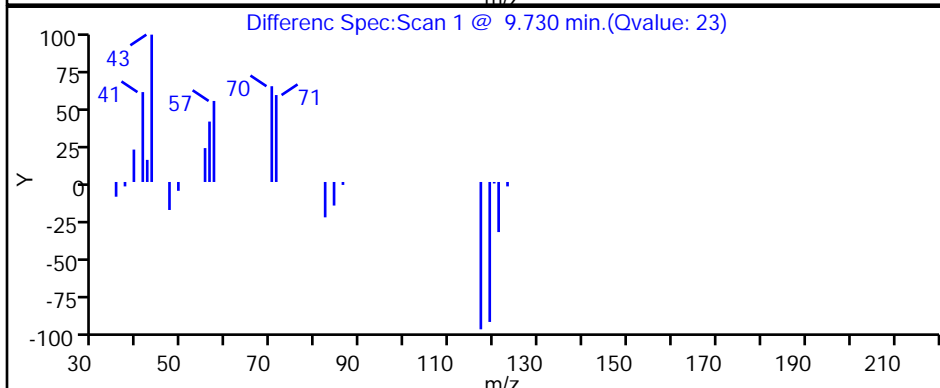
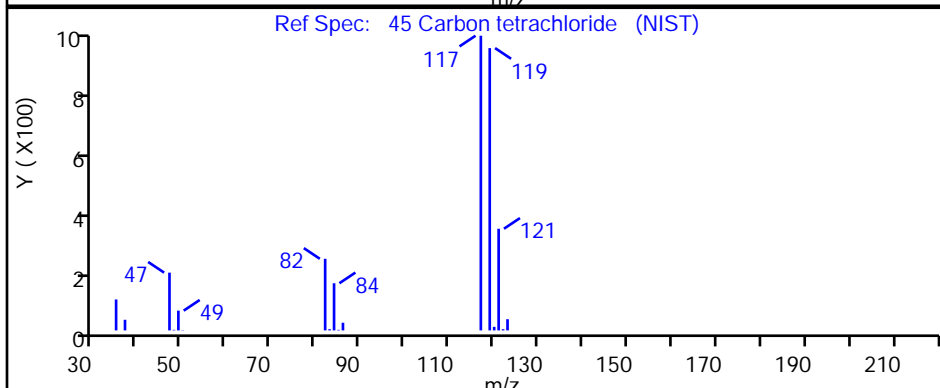
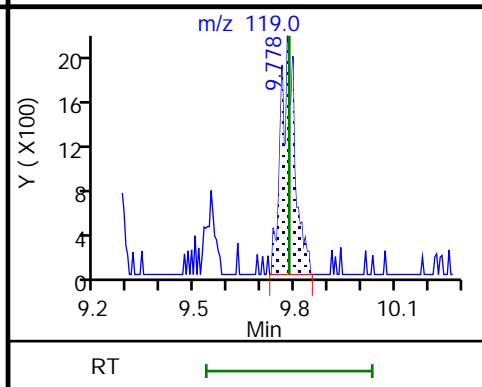
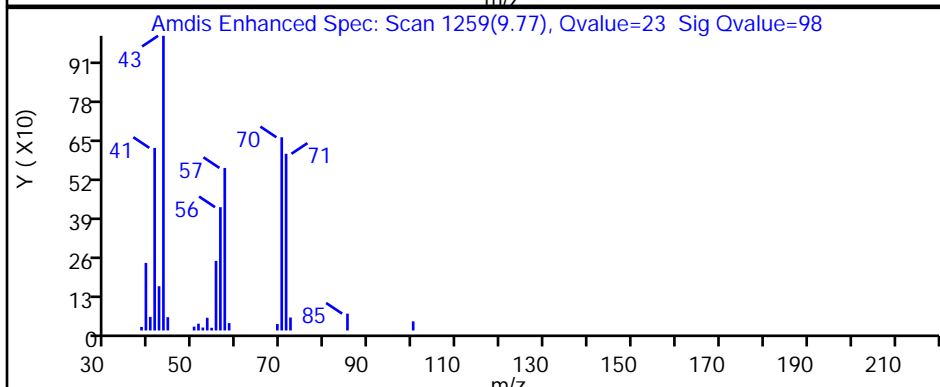
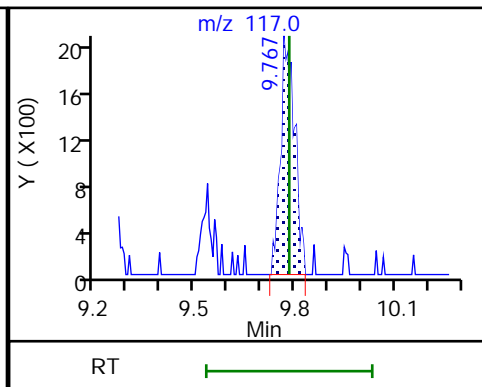
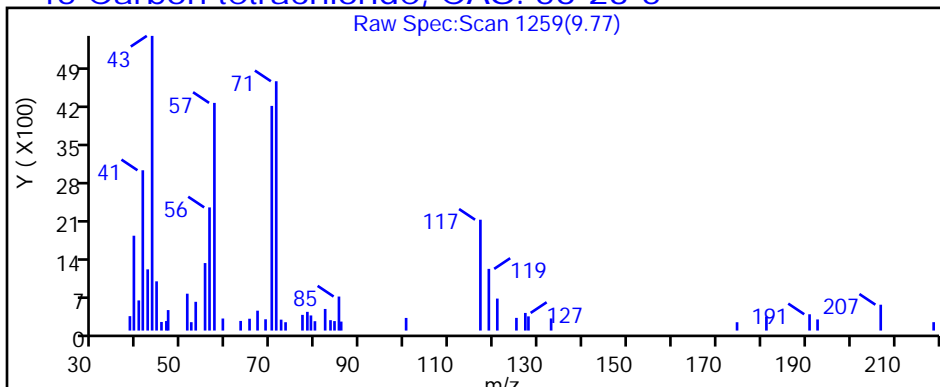
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

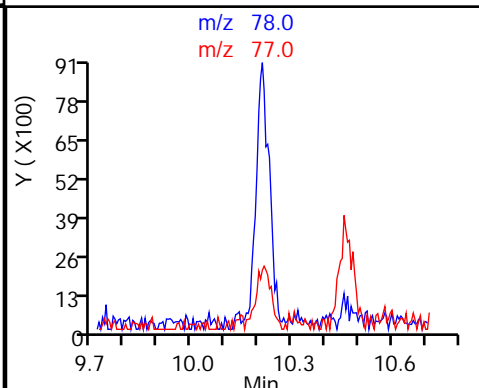
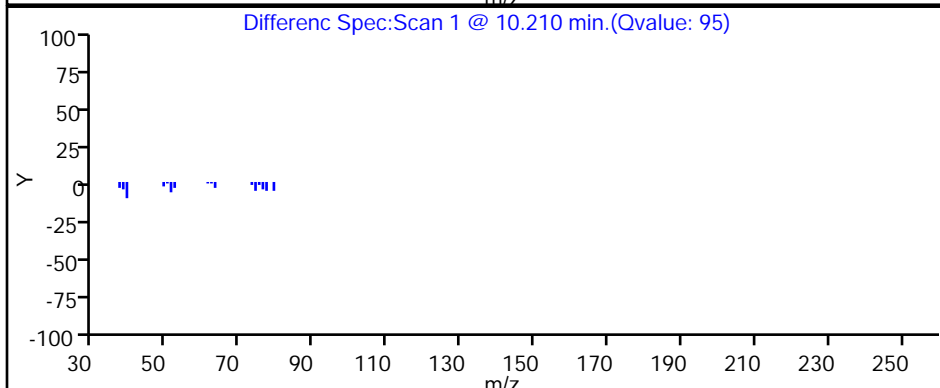
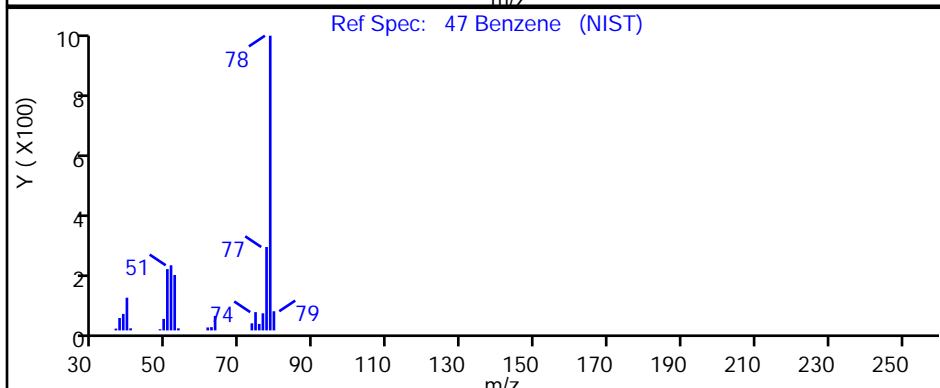
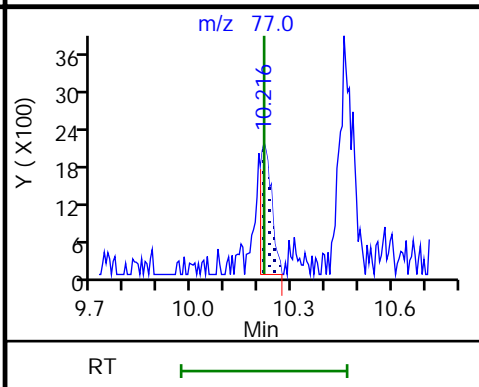
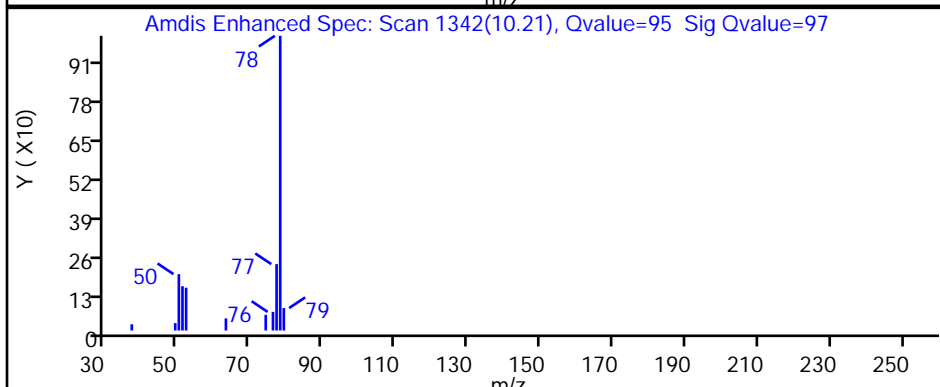
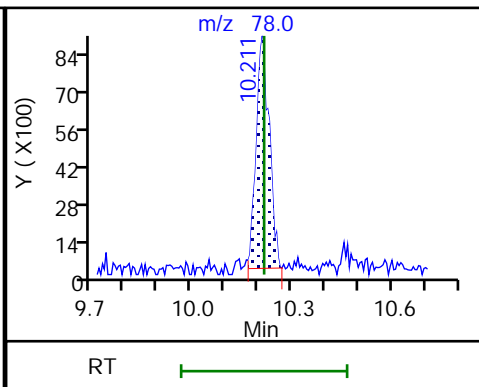
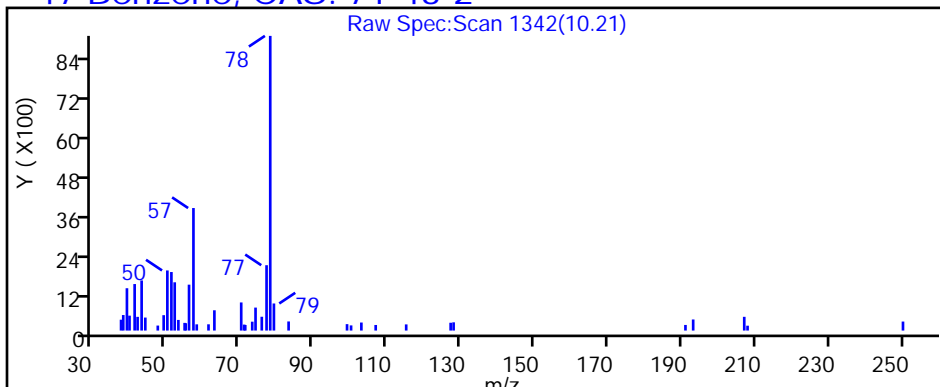
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

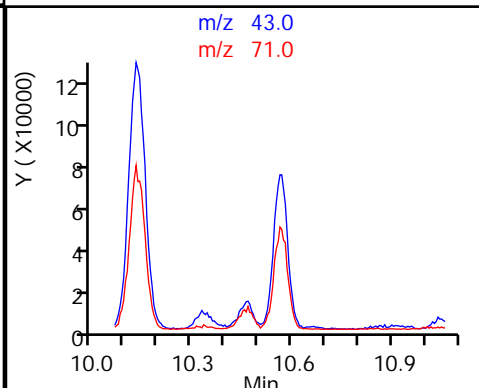
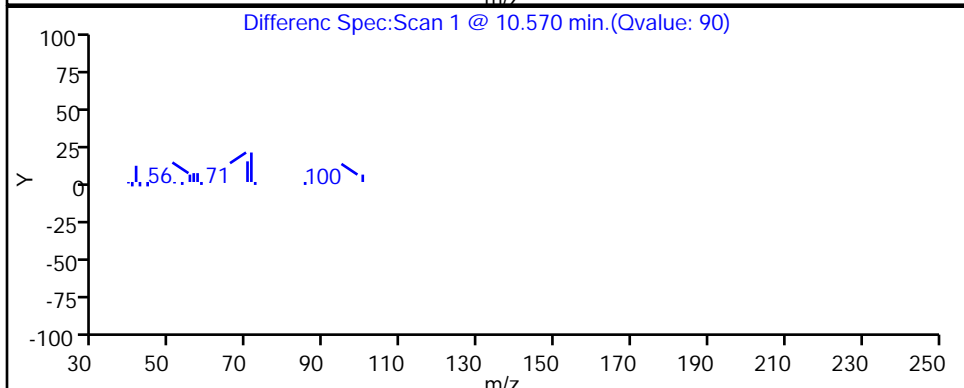
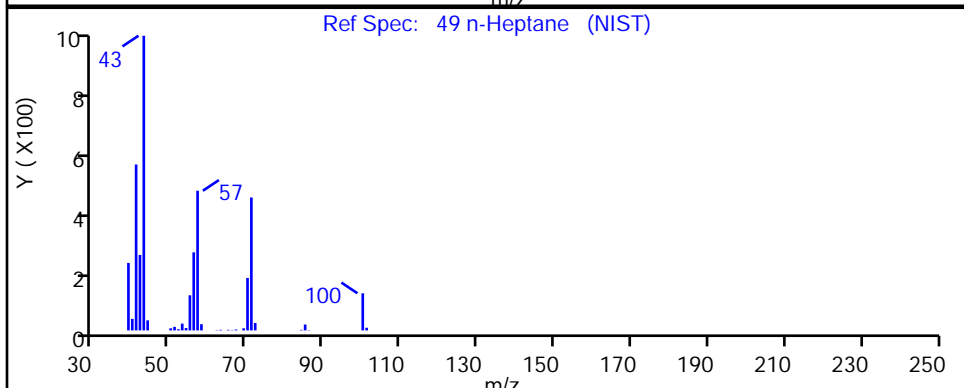
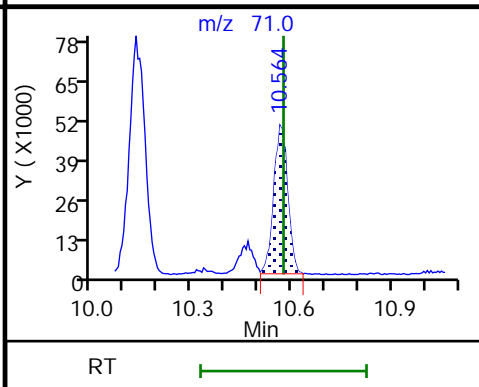
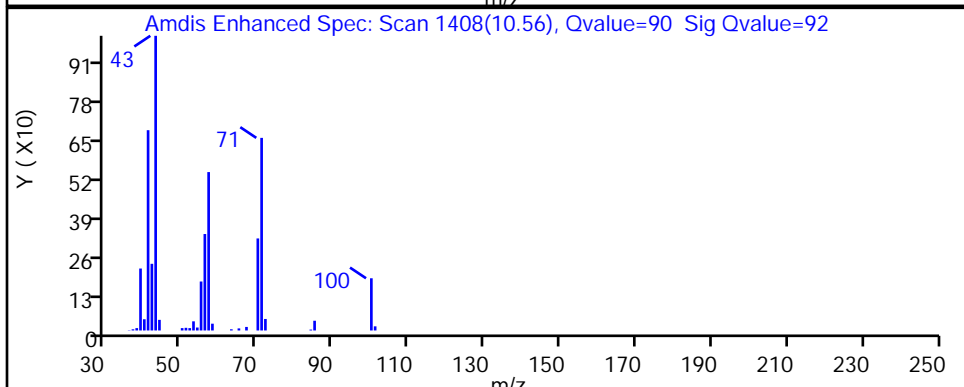
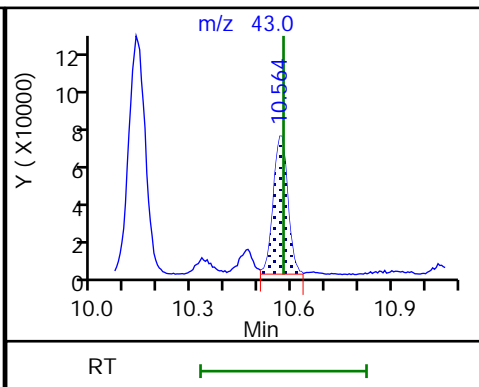
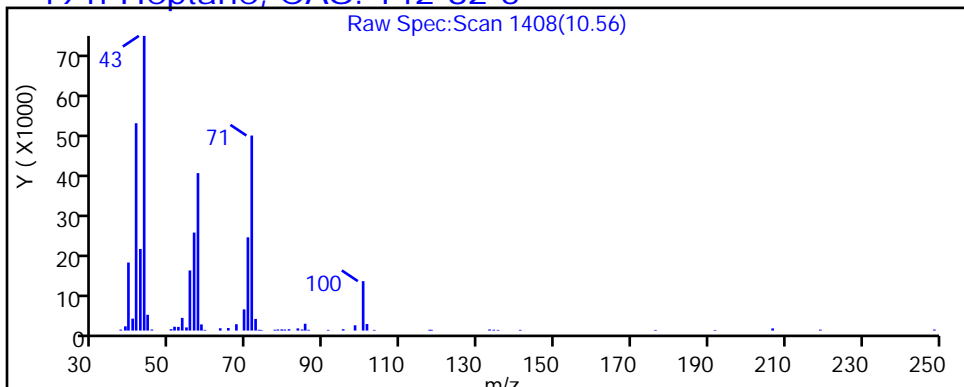
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

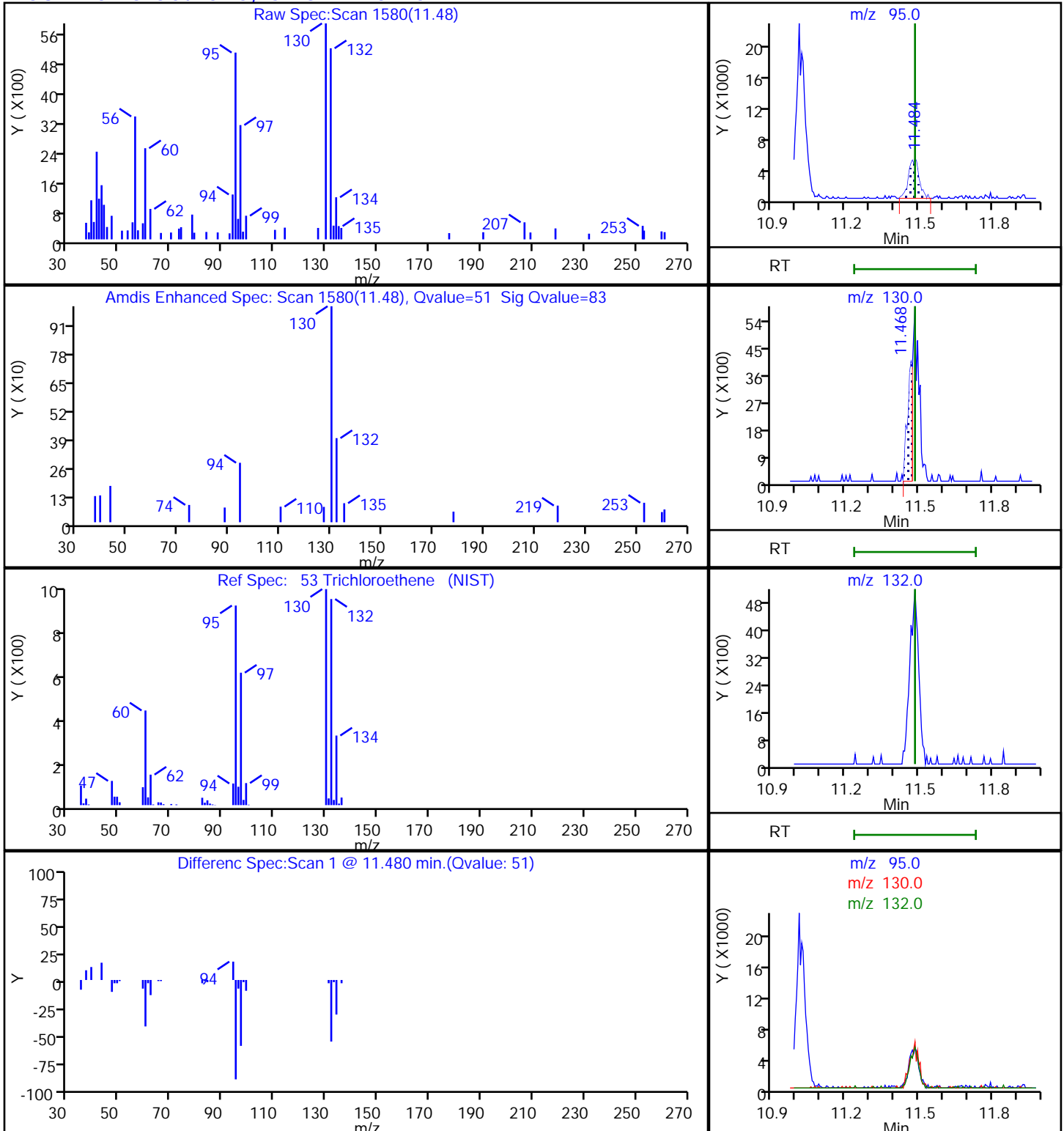
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

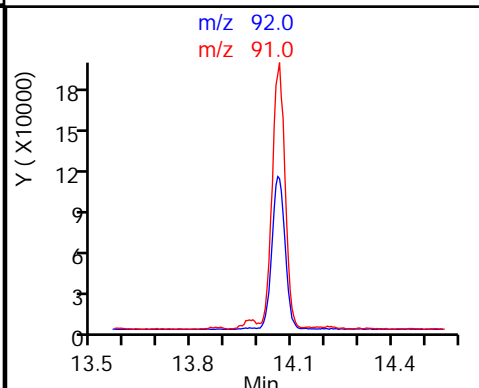
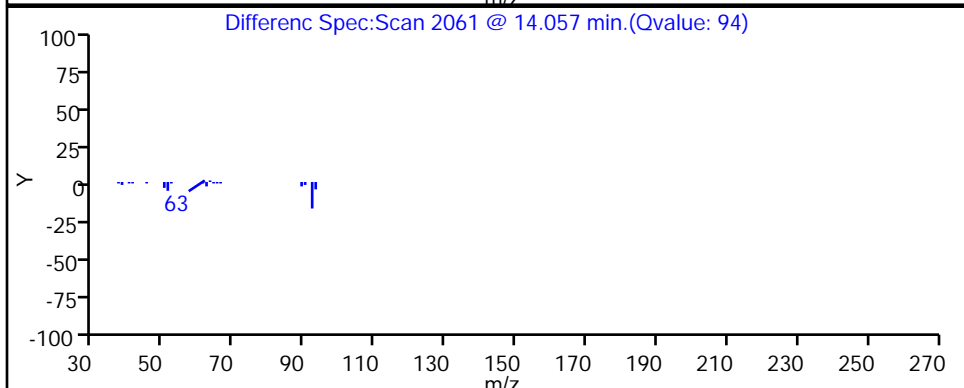
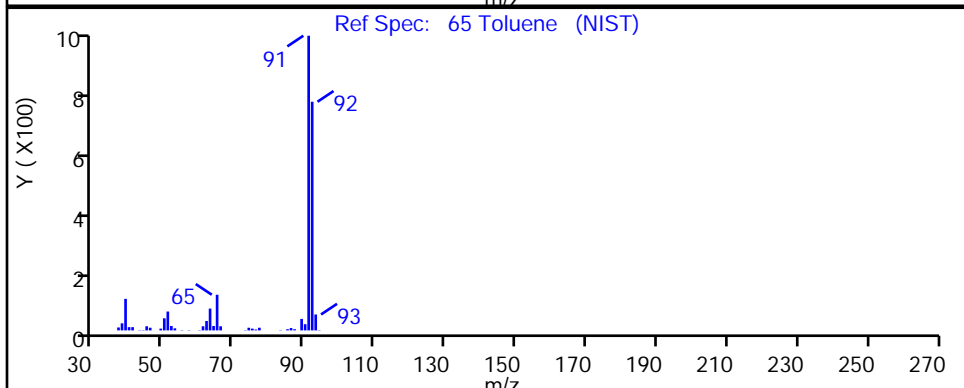
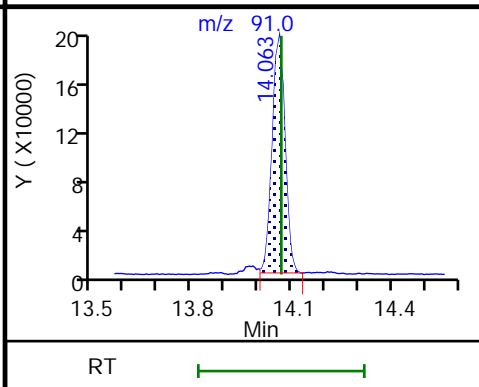
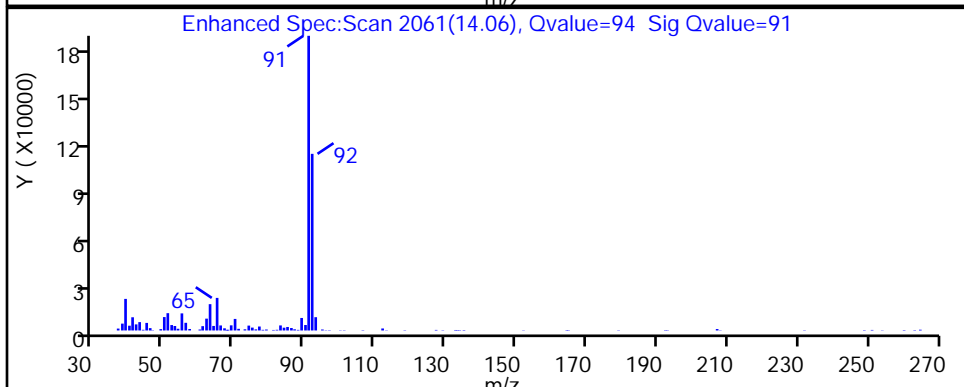
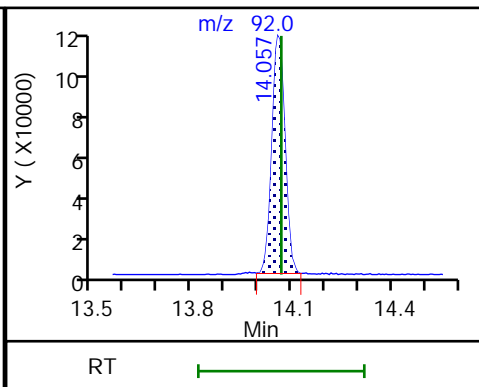
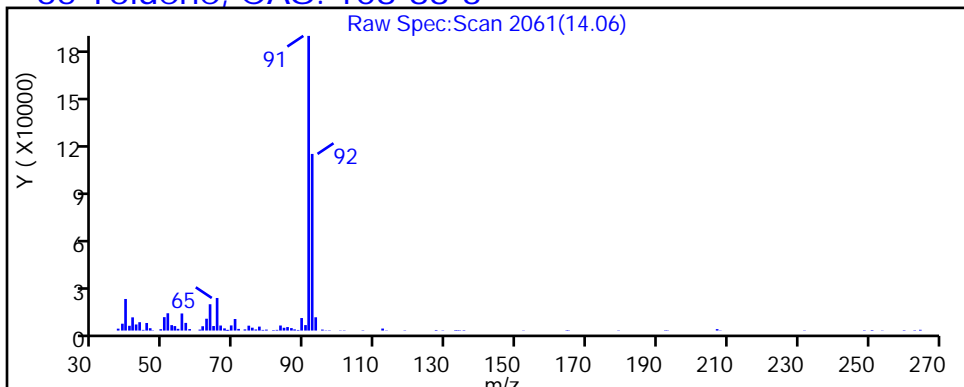
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

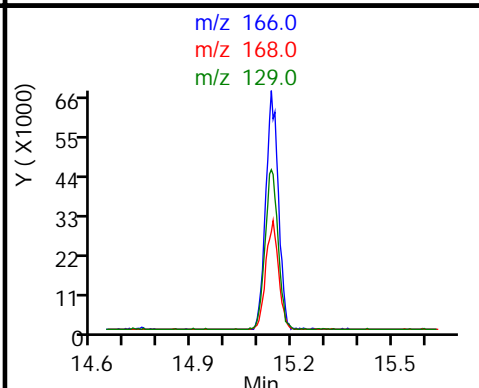
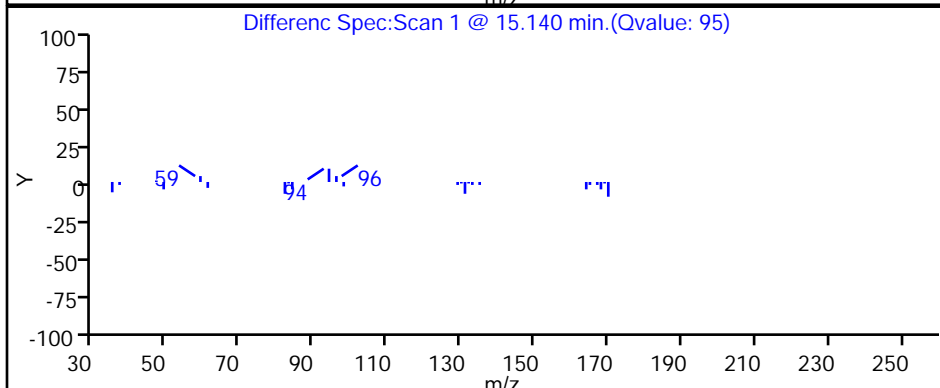
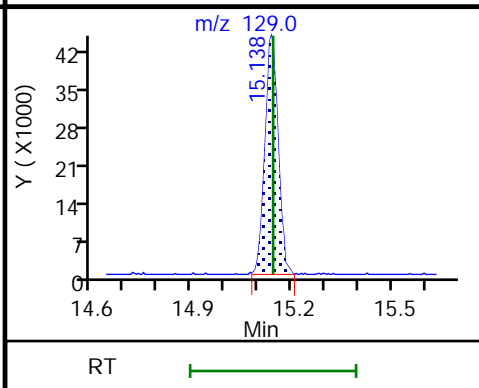
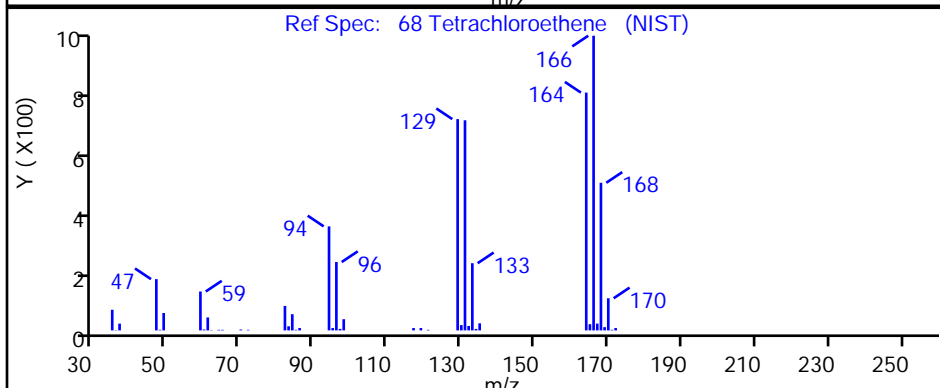
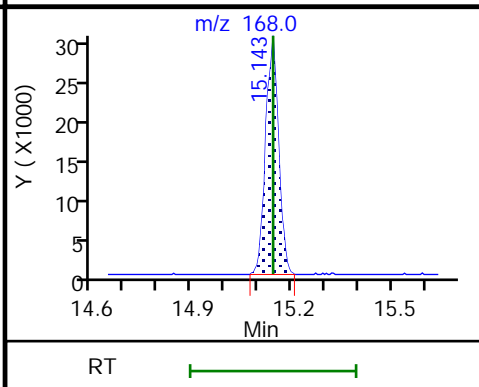
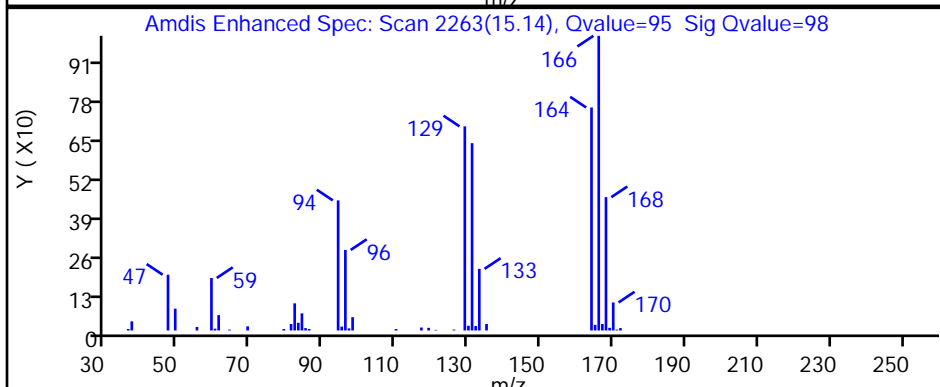
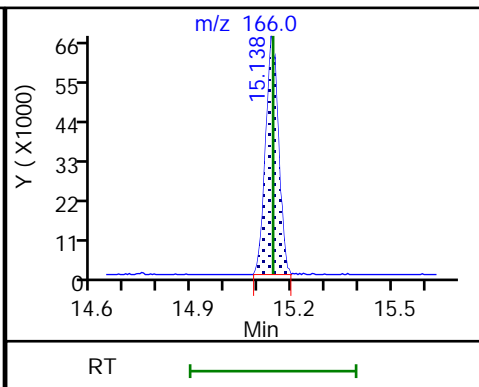
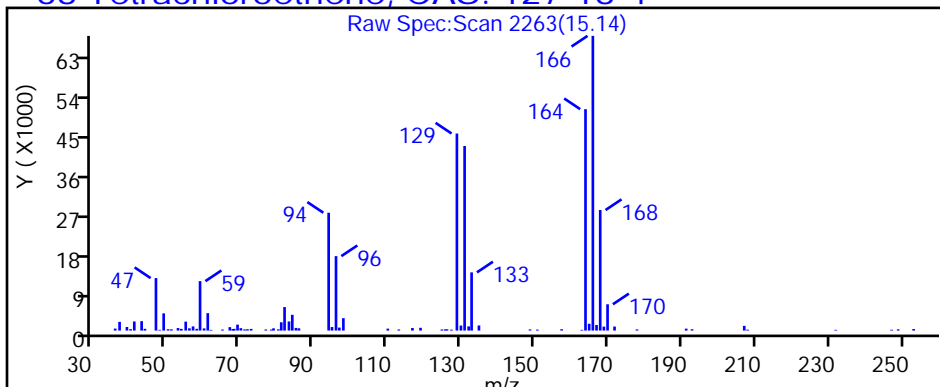
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

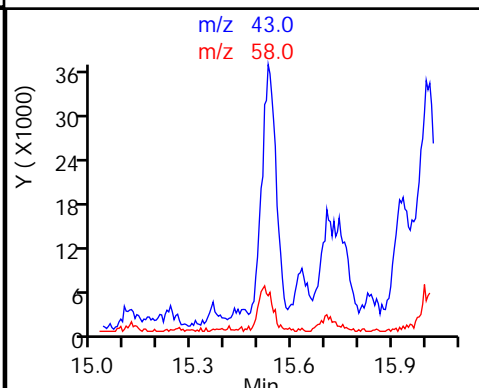
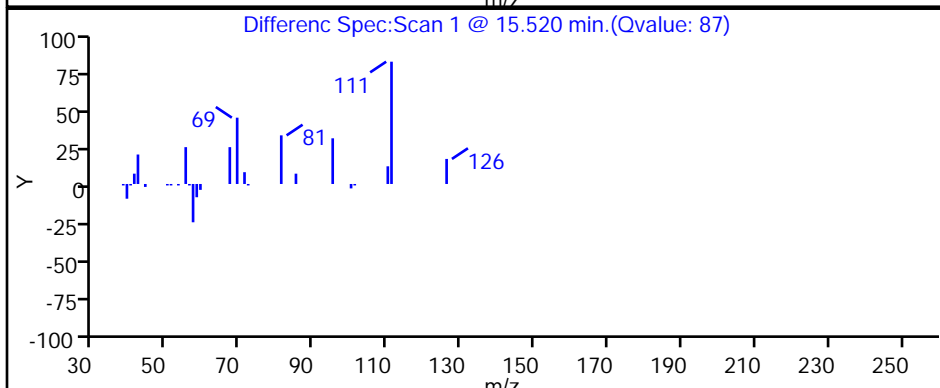
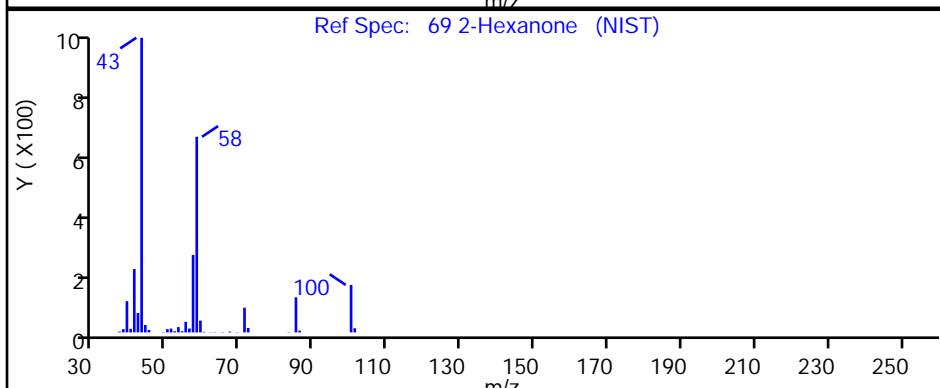
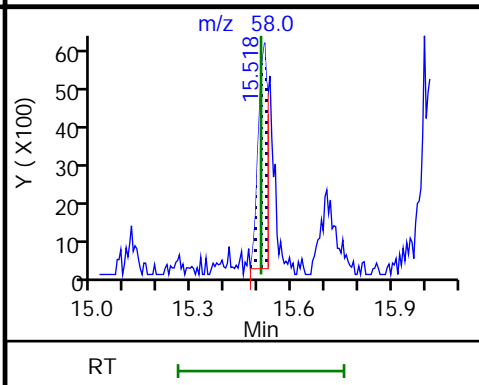
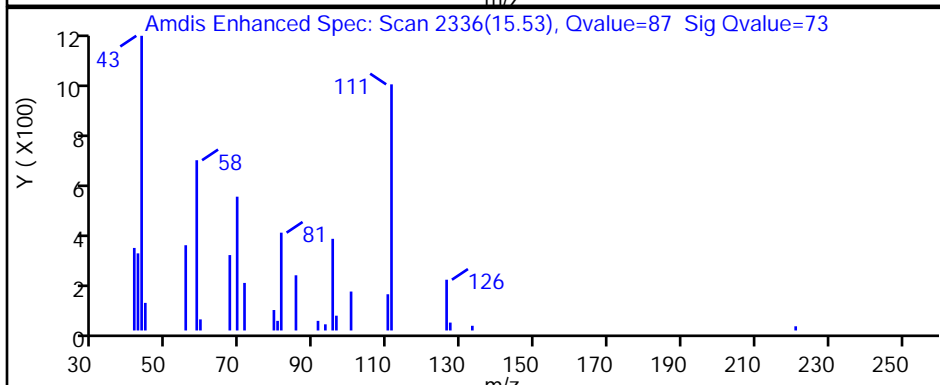
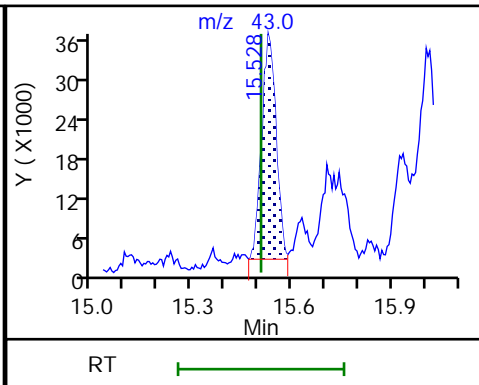
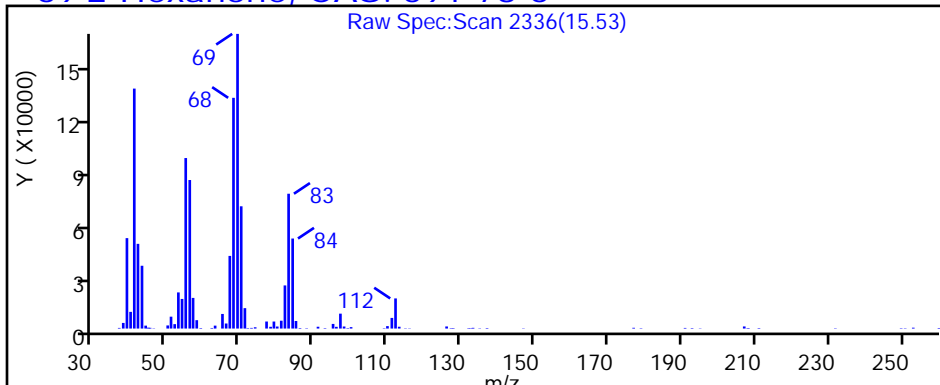
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

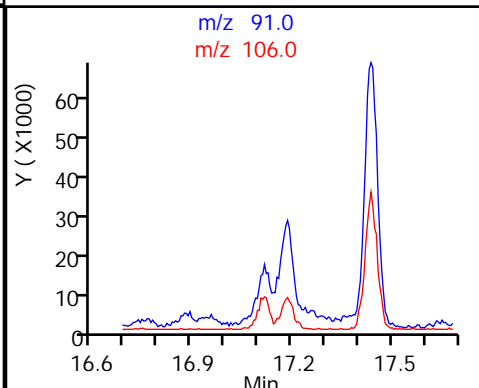
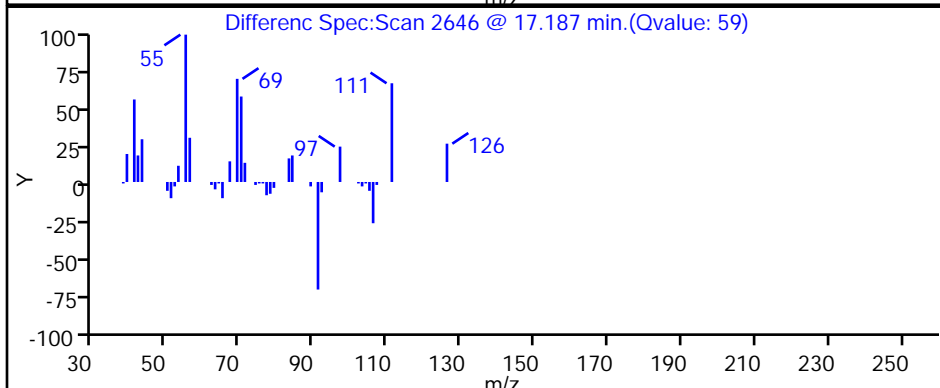
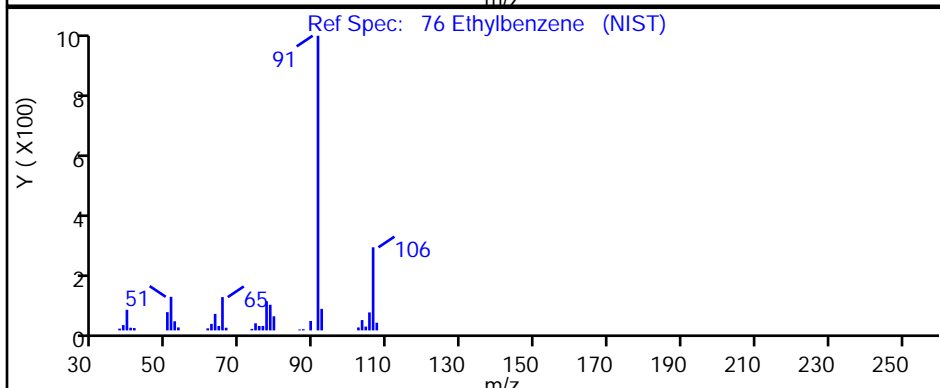
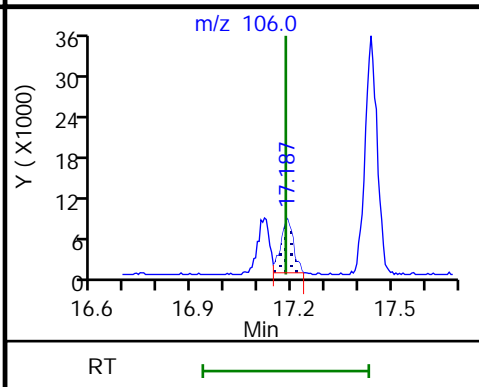
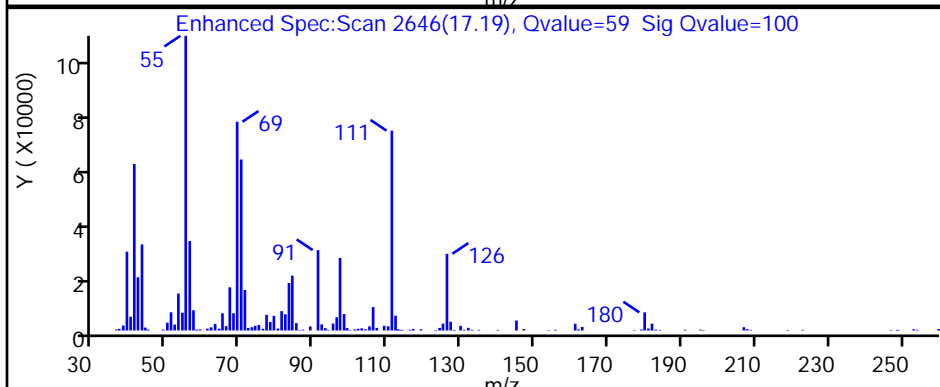
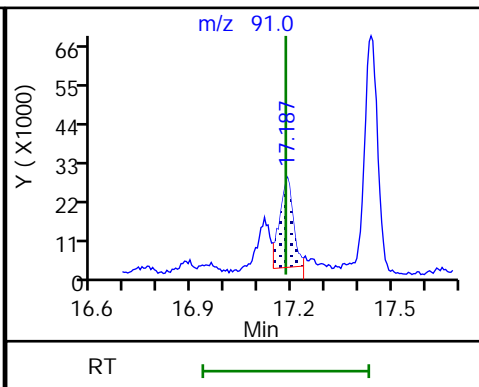
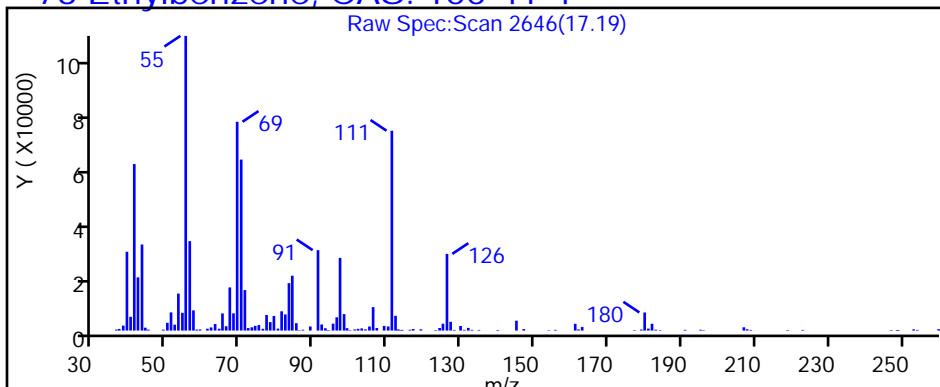
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25

Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

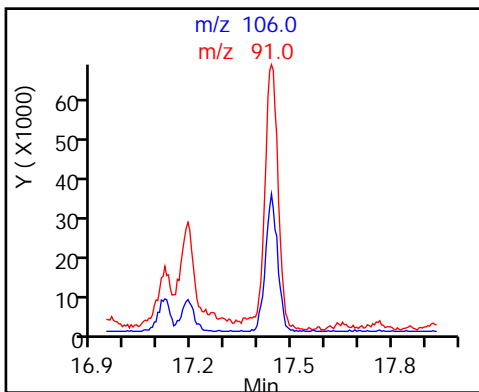
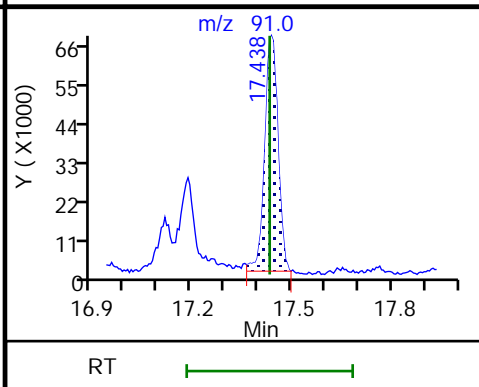
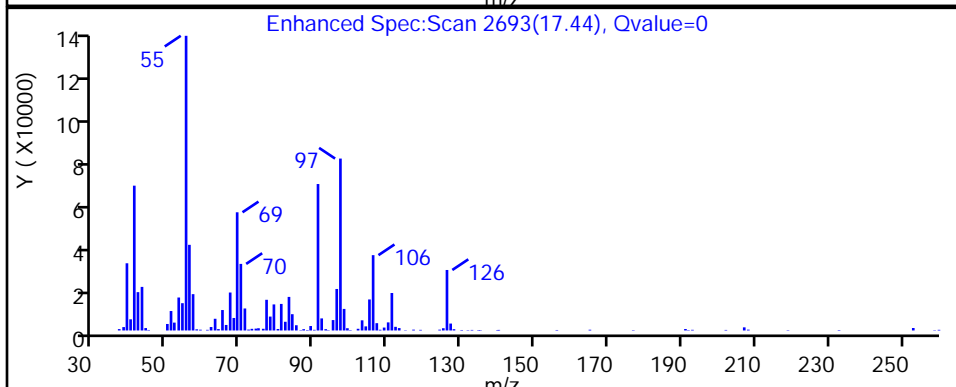
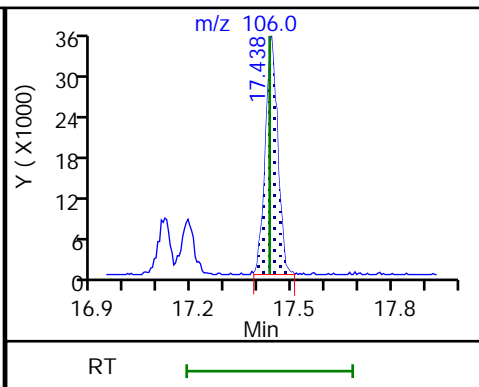
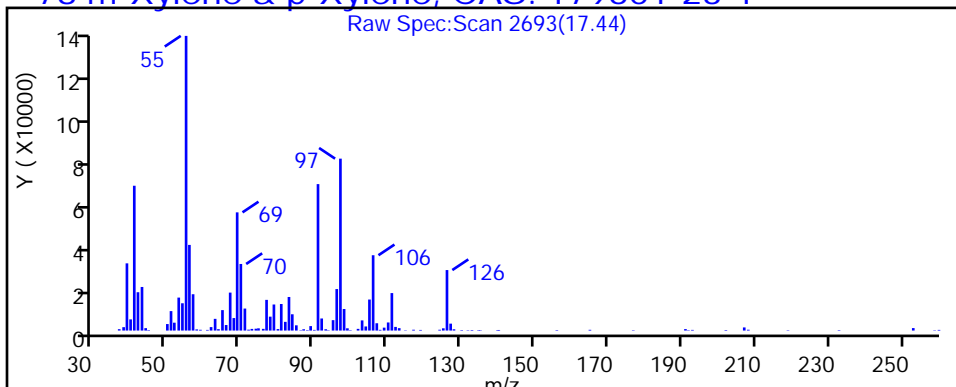
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

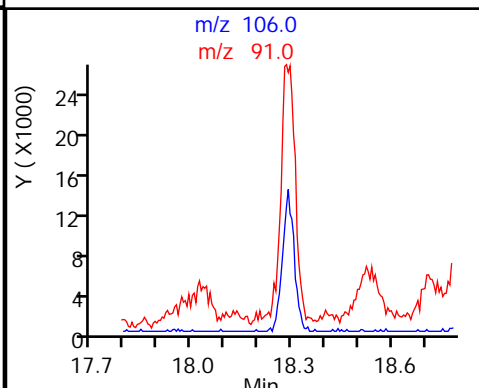
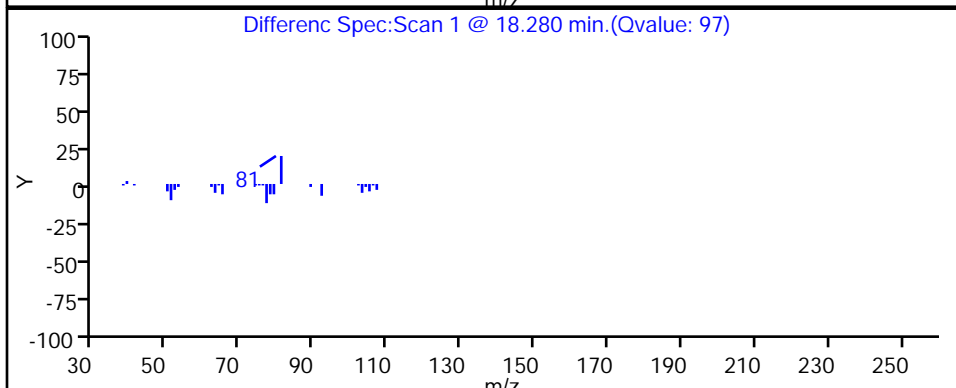
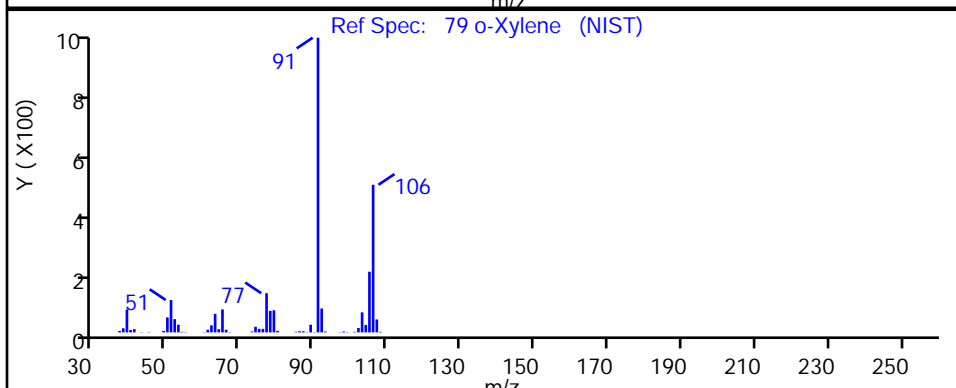
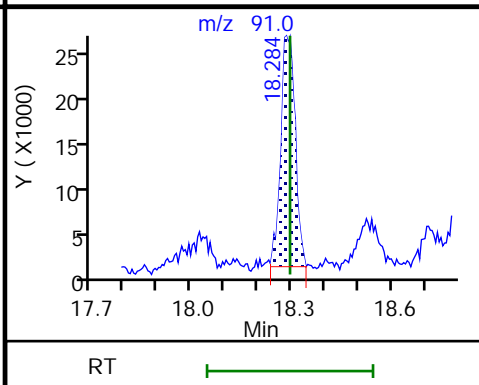
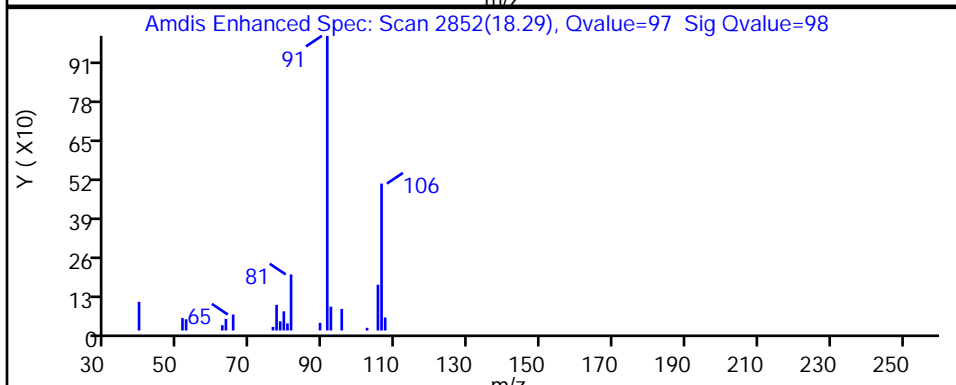
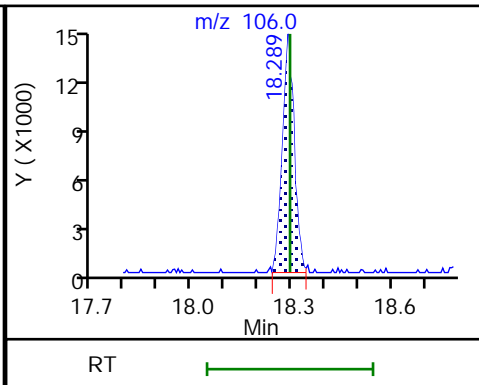
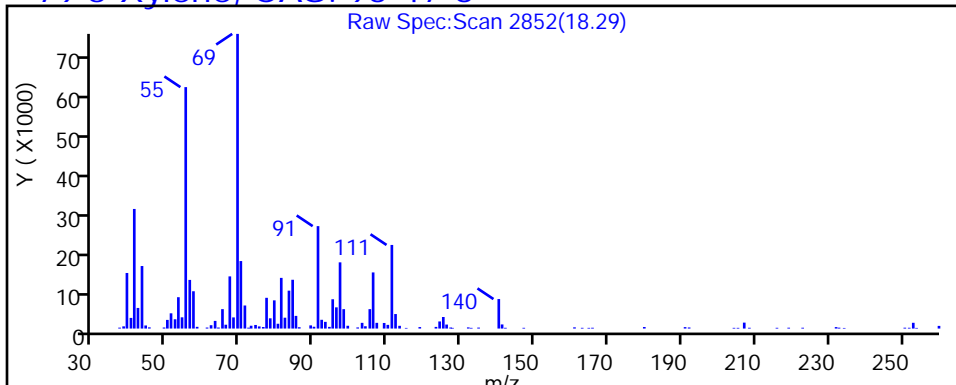
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D

Injection Date: 06-Dec-2018 10:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-9

Lab Sample ID: 200-46353-9

Client ID: MP-3\_20181120

Operator ID: ert

ALS Bottle#: 25 Worklist Smp#: 25

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

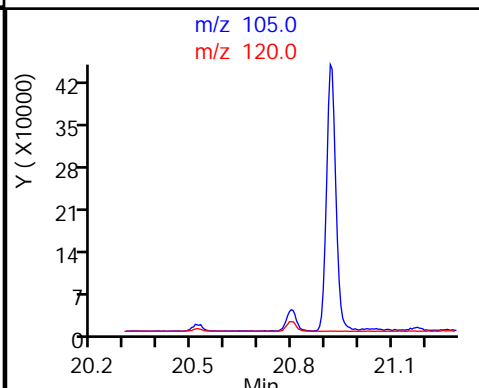
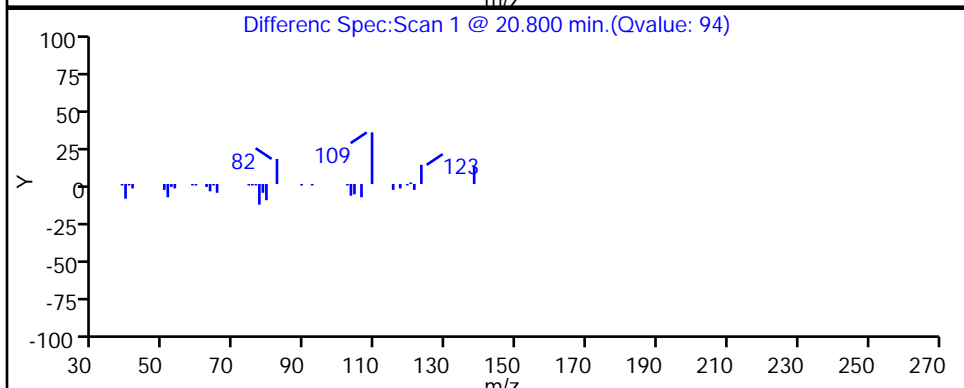
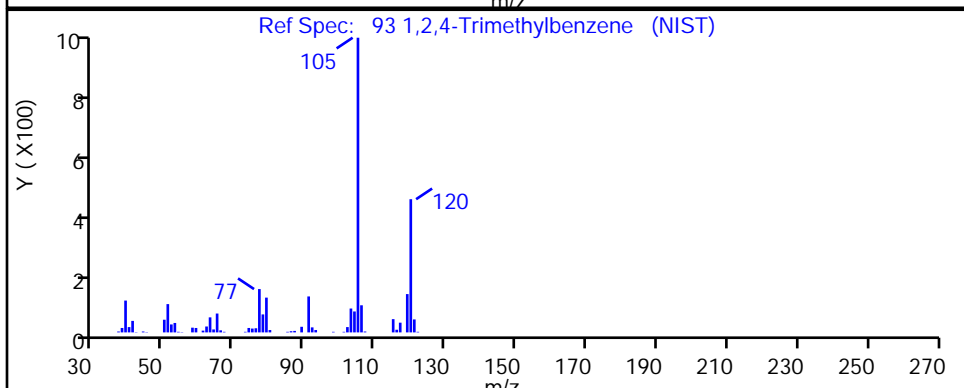
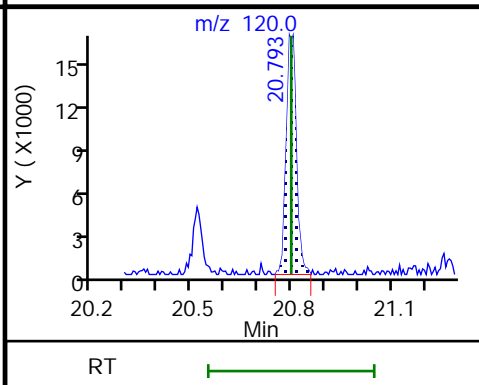
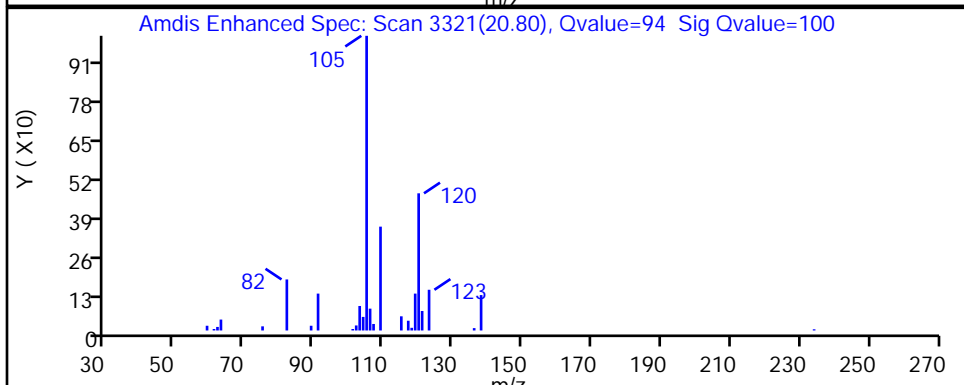
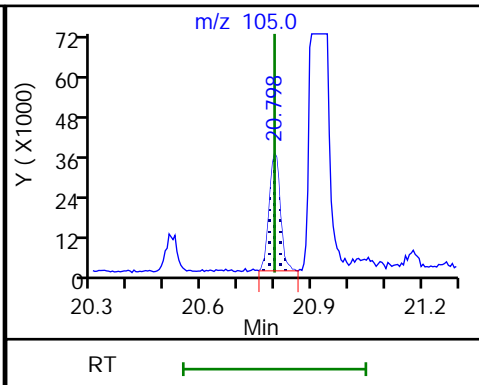
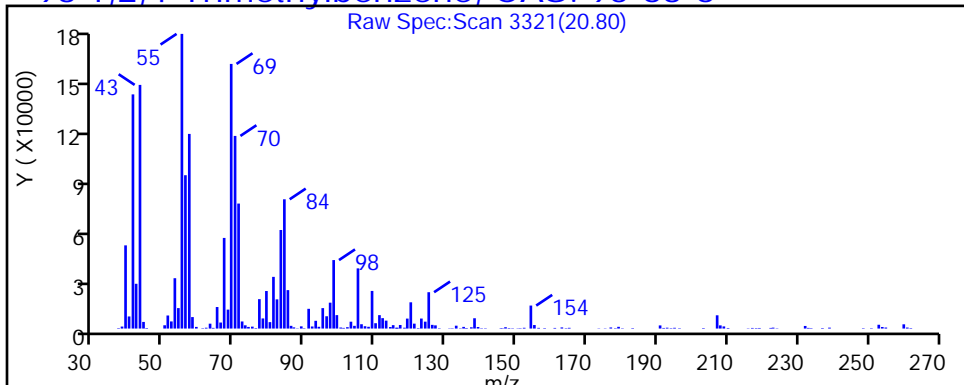
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Burlington

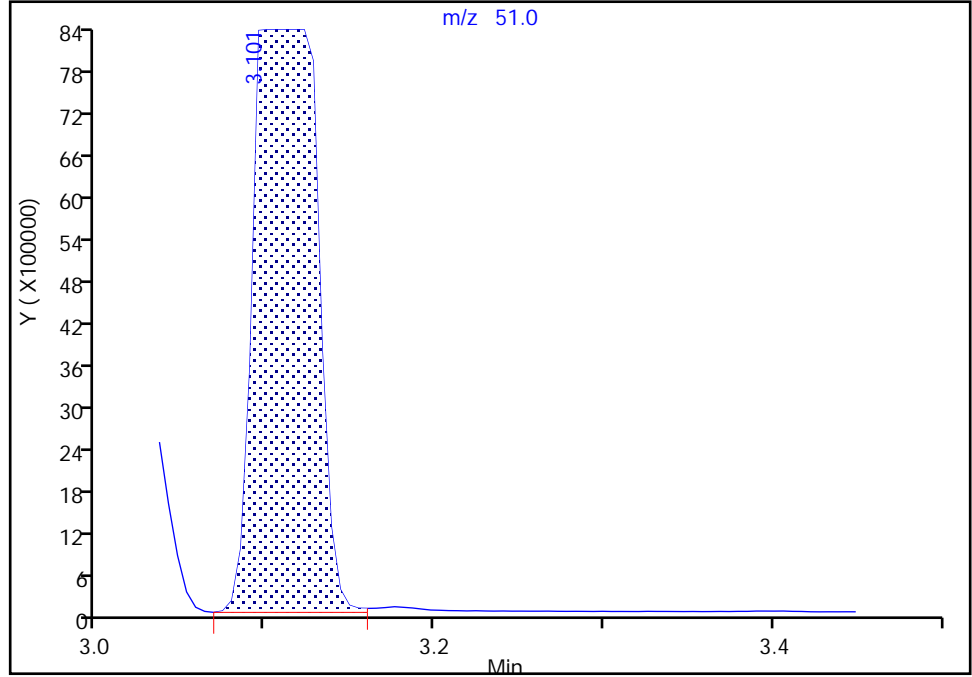
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

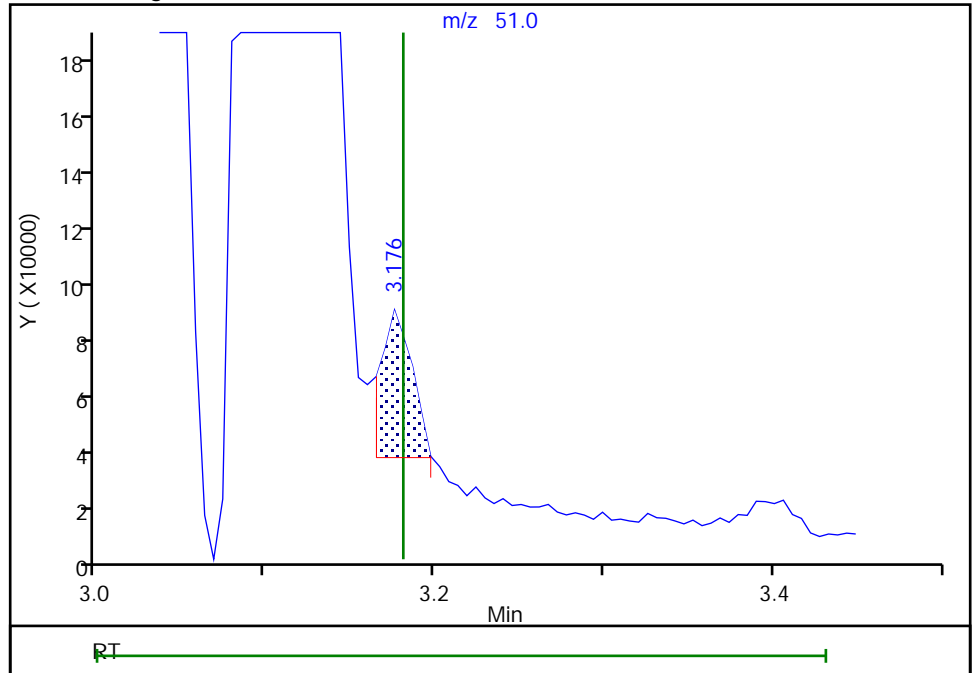
RT: 3.10  
Area: 21950152  
Amount: 266.4273  
Amount Units: ppb v/v

Processing Integration Results



RT: 3.18  
Area: 62571  
Amount: 0.759476  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:39:37  
Audit Action: Manually Integrated

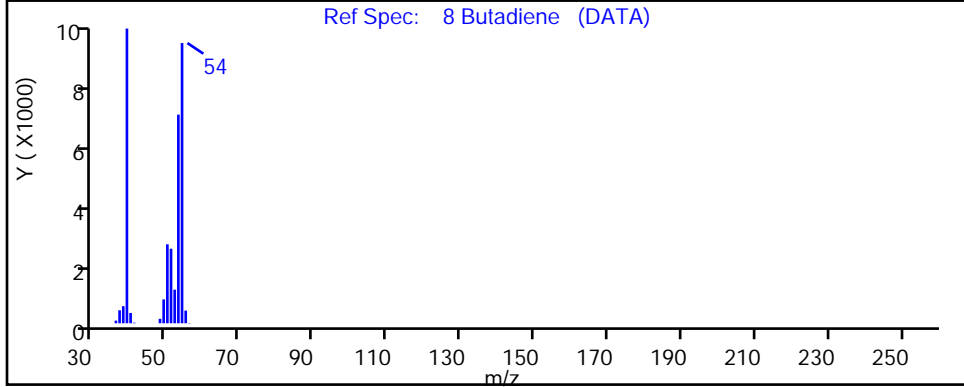
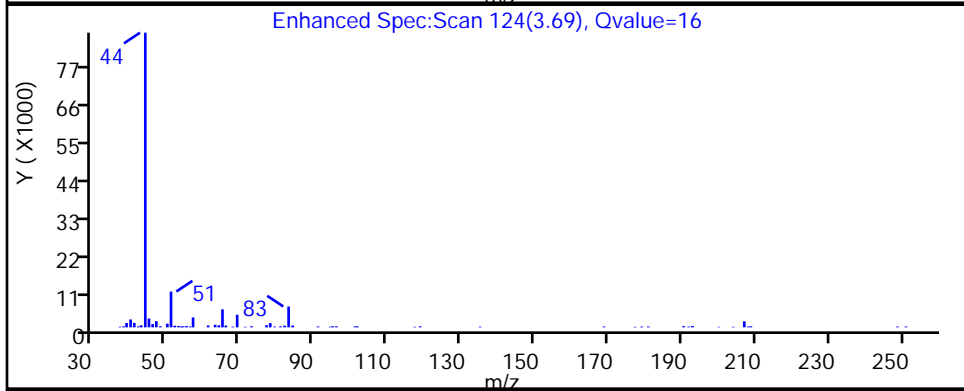
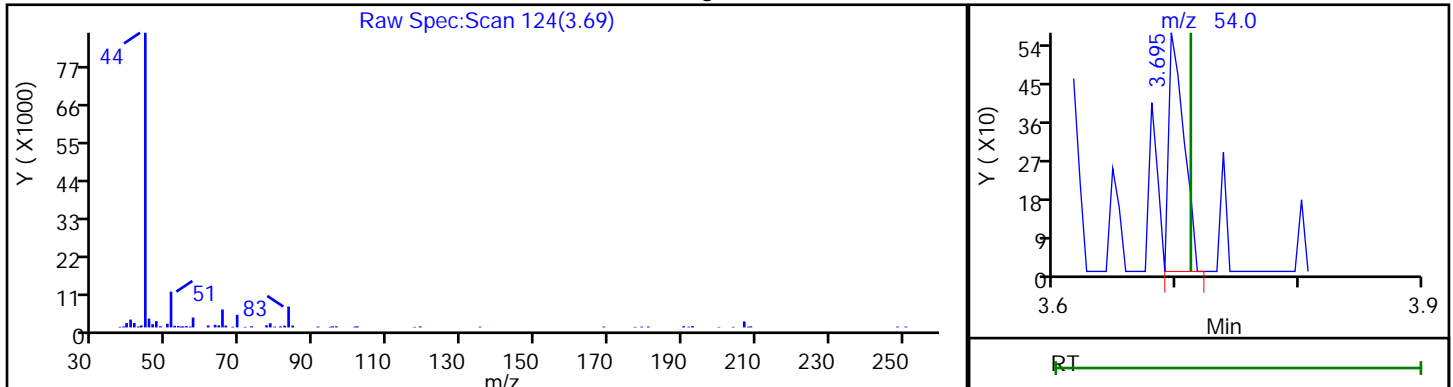
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 485      | 0.017197 |

Reviewer: guazzonig, 06-Dec-2018 13:44:07

Audit Action: Marked Compound Undetected

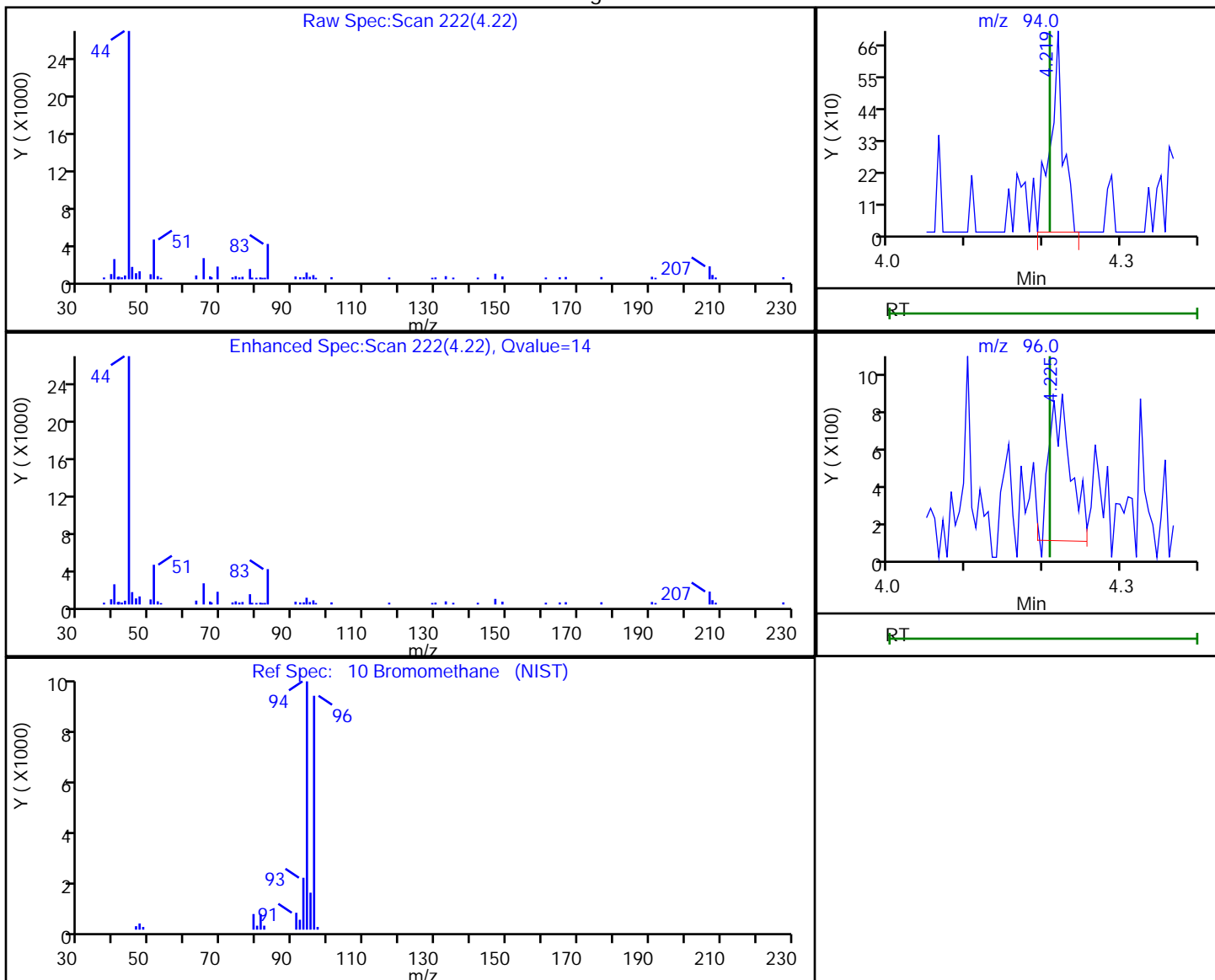
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.22 | 94.00 | 805      | 0.015381 |
| 4.22 | 96.00 | 1497     |          |

Reviewer: guazzonig, 06-Dec-2018 13:44:09

Audit Action: Marked Compound Undetected

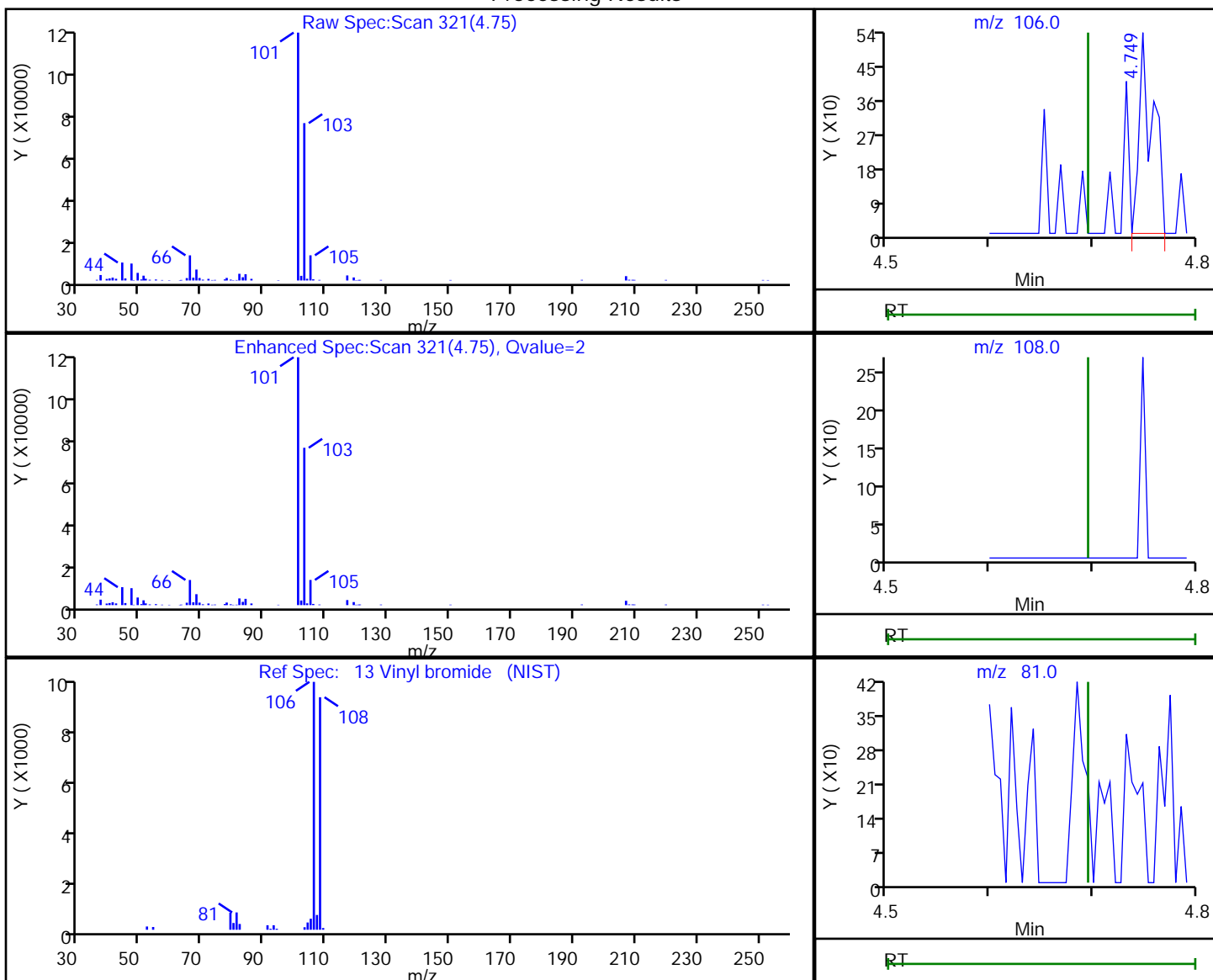
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.75 | 106.00 | 504      | 0.009740 |
| 4.70 | 108.00 | 0        |          |
| 4.70 | 81.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:44:11  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

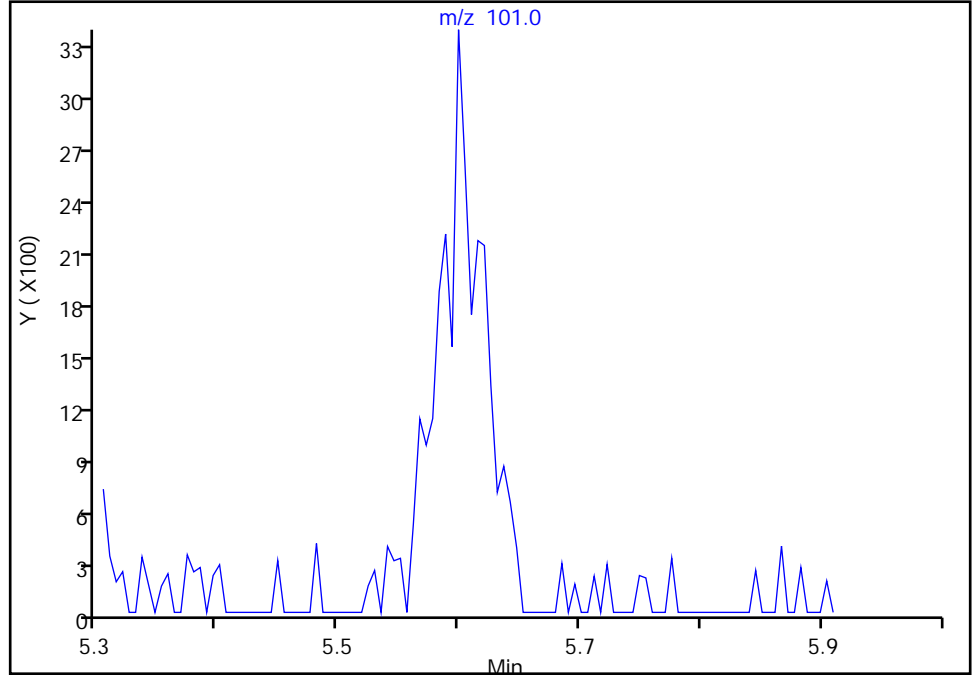
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

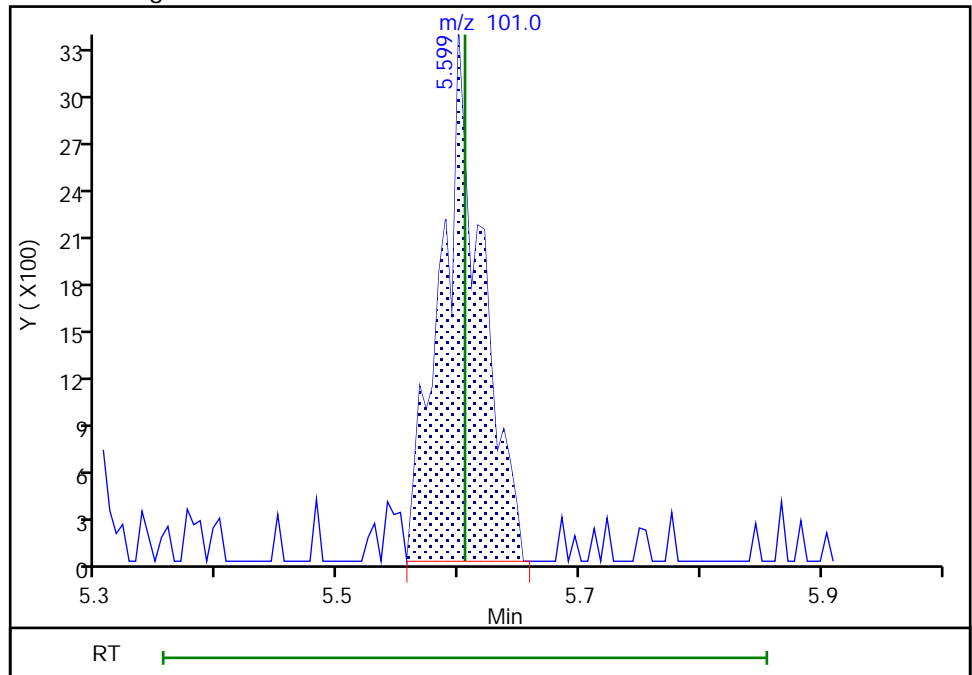
Not Detected  
Expected RT: 5.60

Processing Integration Results



Manual Integration Results

RT: 5.60  
Area: 8013  
Amount: 0.074379  
Amount Units: ppb v/v



Reviewer: guazzonig, 06-Dec-2018 13:44:22  
Audit Action: Manually Integrated

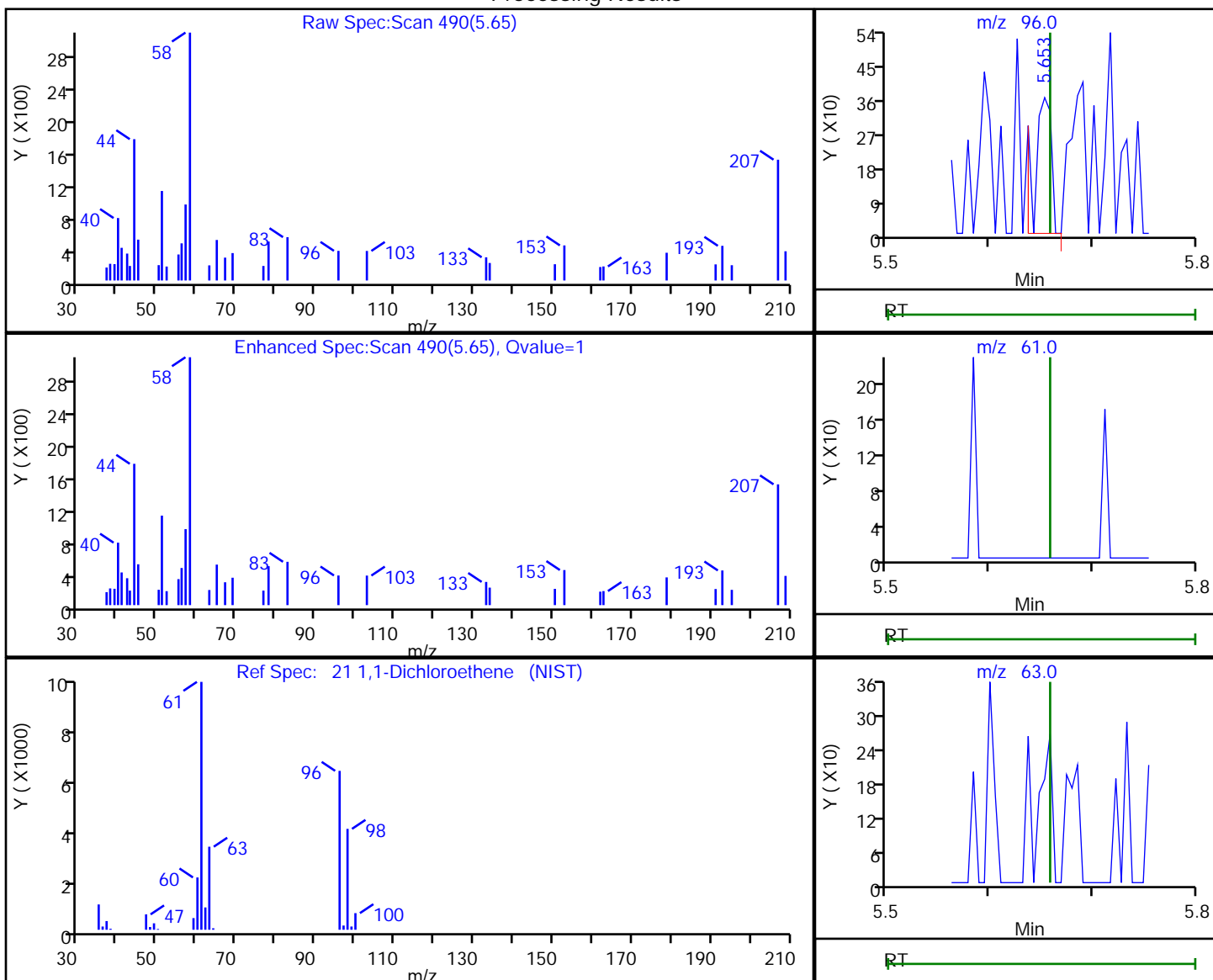
Audit Reason: Incomplete Integration

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.65 | 96.00 | 410      | 0.008646 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:40:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

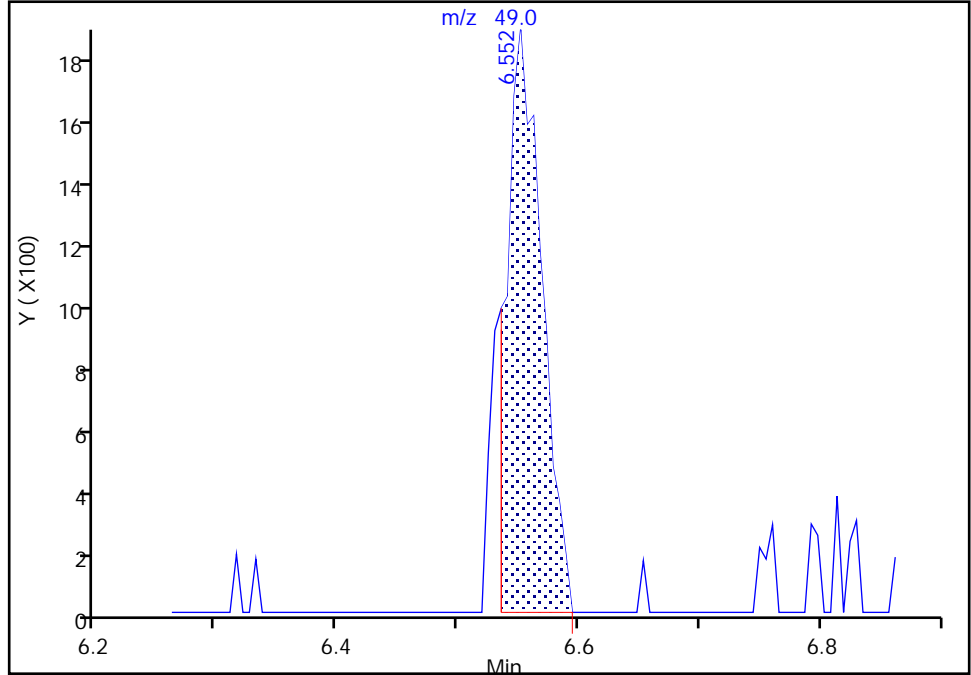
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

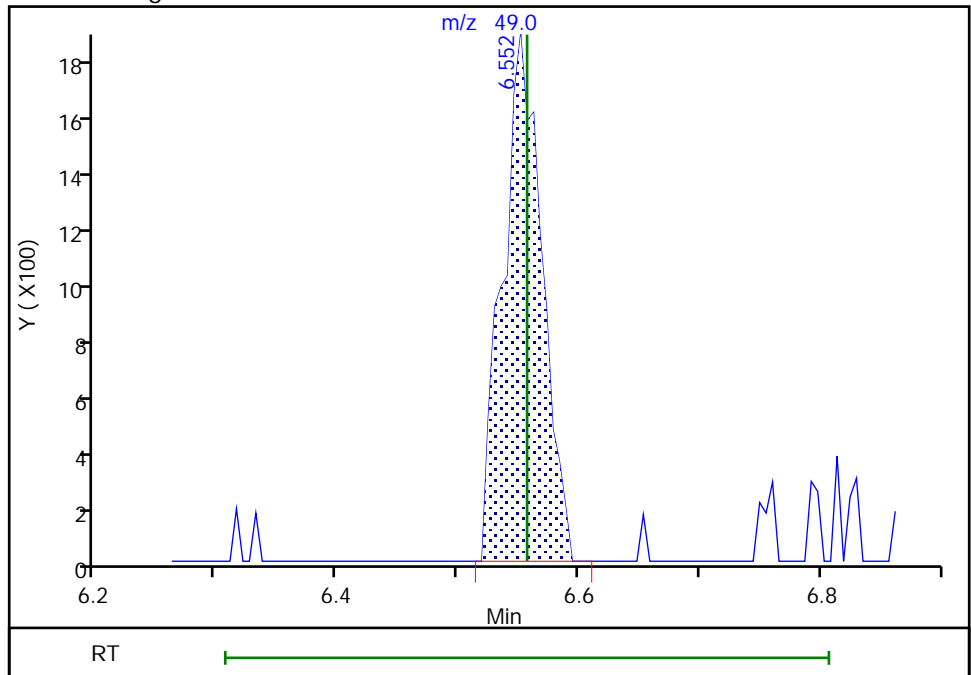
RT: 6.55  
Area: 3657  
Amount: 0.085449  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.55  
Area: 4098  
Amount: 0.095753  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

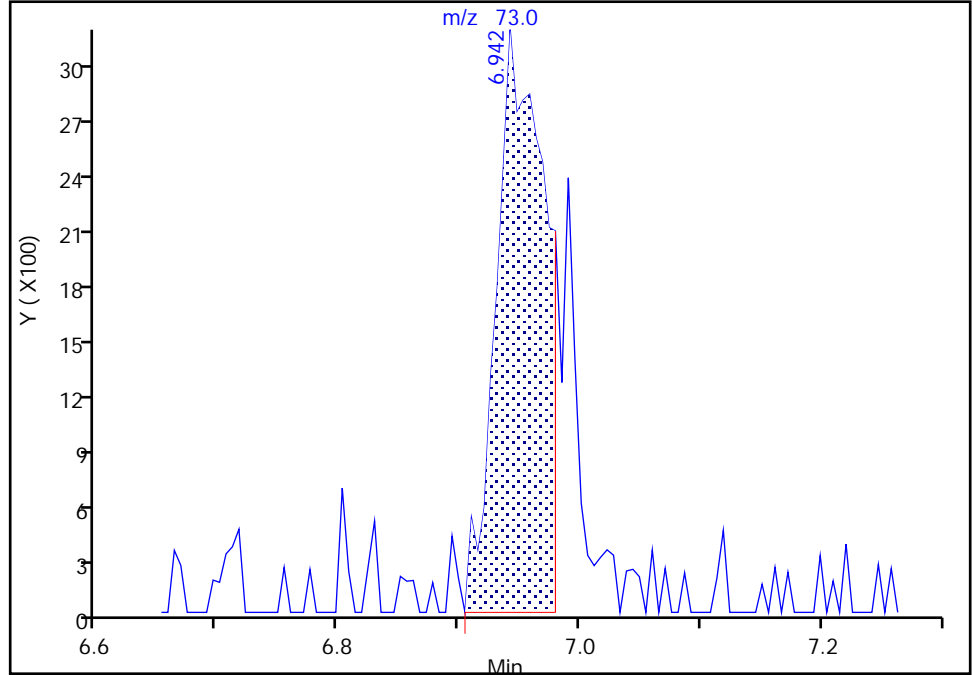
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

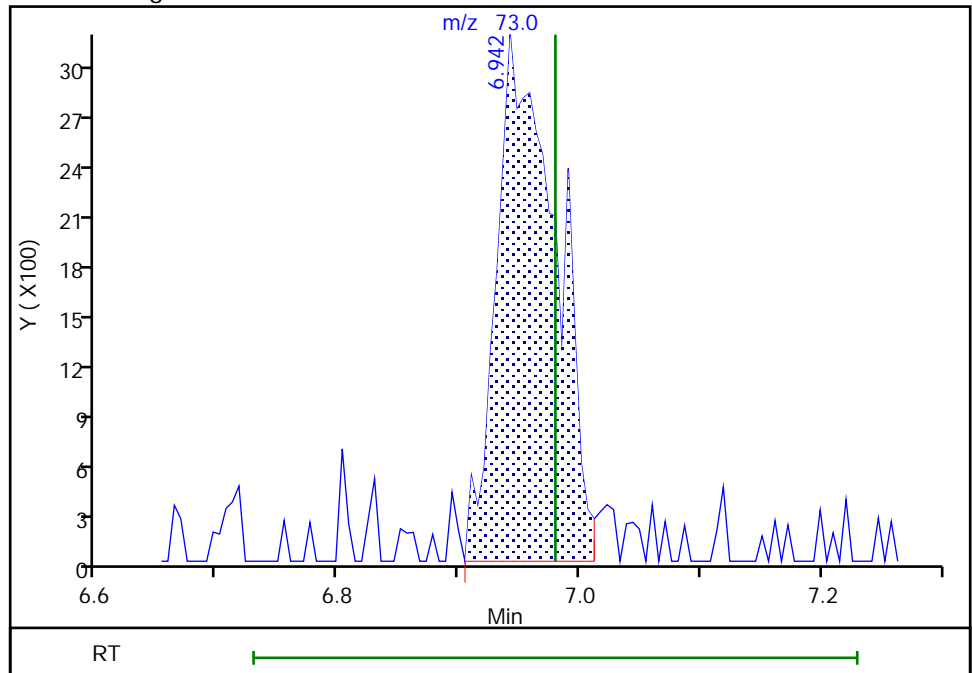
RT: 6.94  
Area: 8783  
Amount: 0.095269  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.94  
Area: 10744  
Amount: 0.116540  
Amount Units: ppb v/v

Manual Integration Results

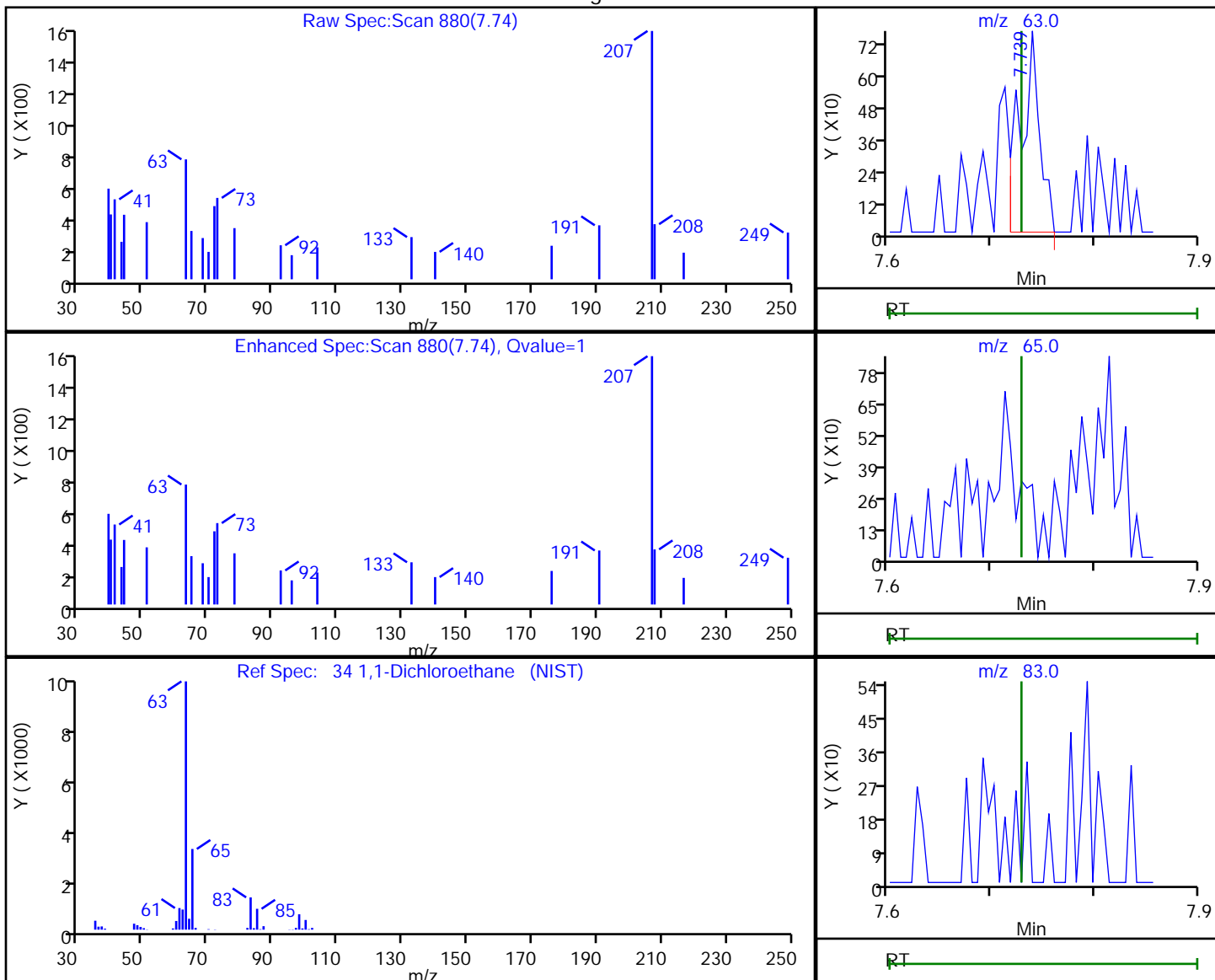


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.74 | 63.00 | 992      | 0.013378 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:41:22

Audit Action: Marked Compound Undetected

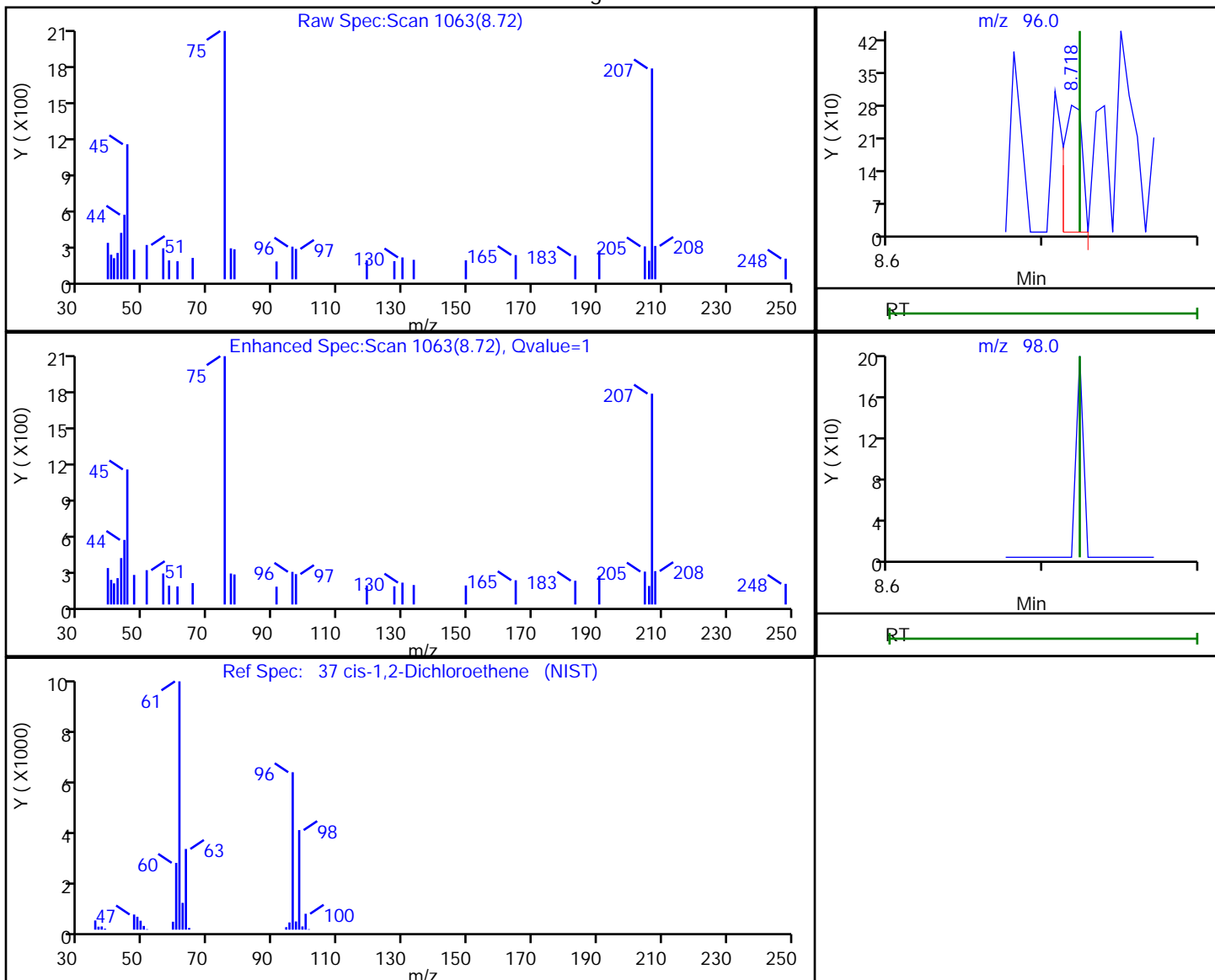
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.72 | 96.00 | 232      | 0.005165 |
| 8.72 | 98.00 | 0        |          |

Reviewer: guazonig, 06-Dec-2018 13:45:32

Audit Action: Marked Compound Undetected

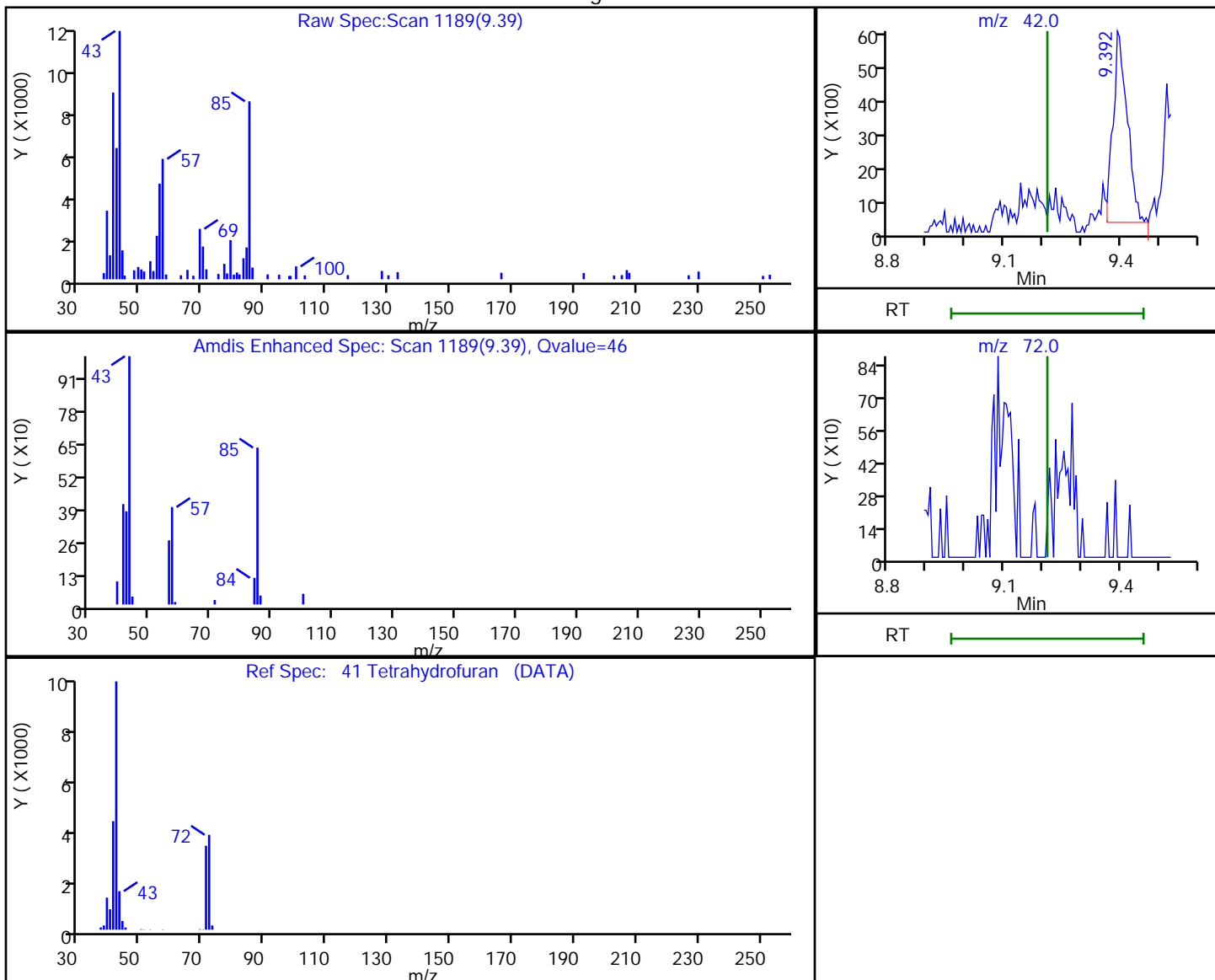
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.39 | 42.00 | 14586    | 0.685918 |
| 9.21 | 72.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:45:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

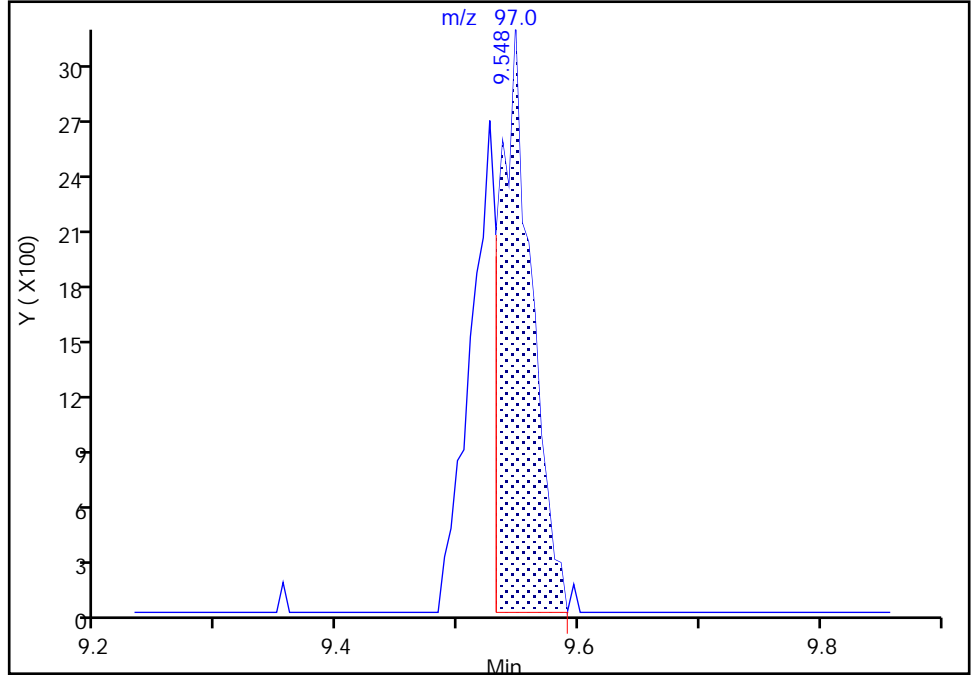
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

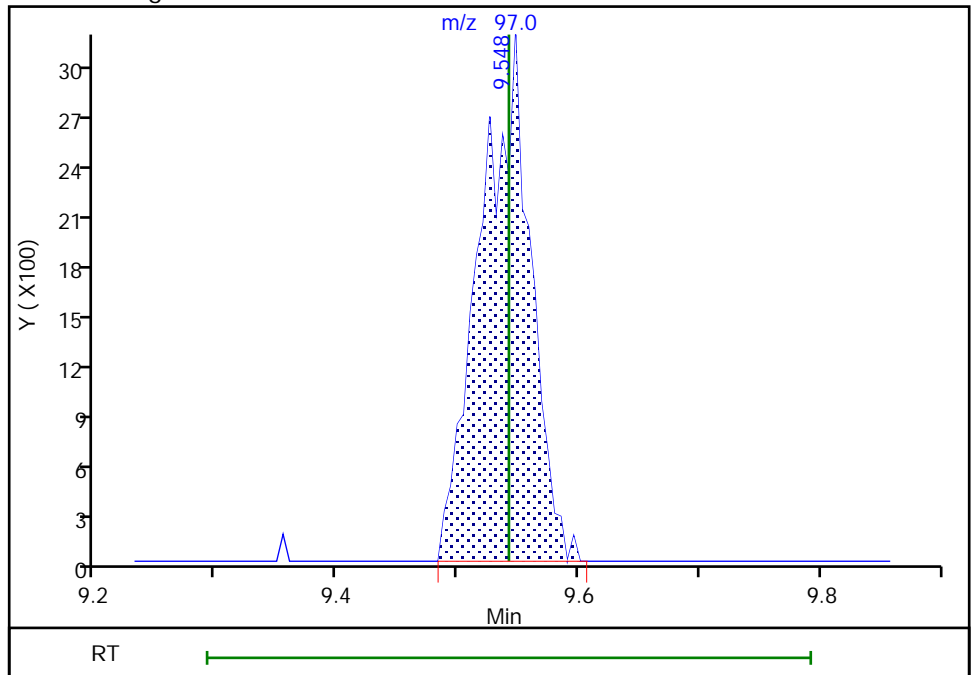
RT: 9.55  
Area: 5756  
Amount: 0.055575  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.55  
Area: 9170  
Amount: 0.088538  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

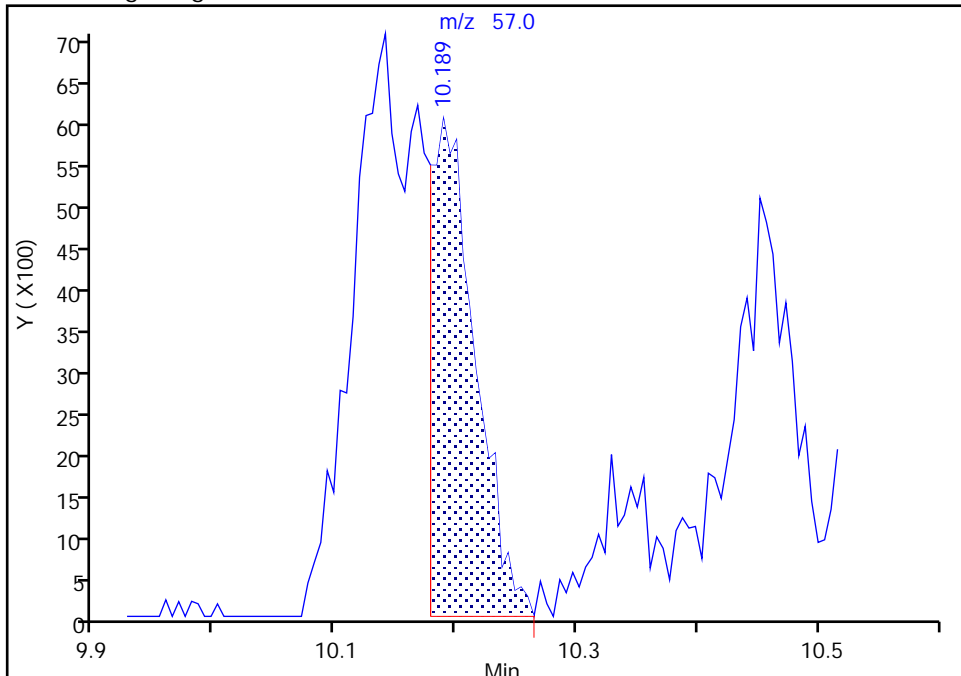
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Isooctane, CAS: 540-84-1

Signal: 1

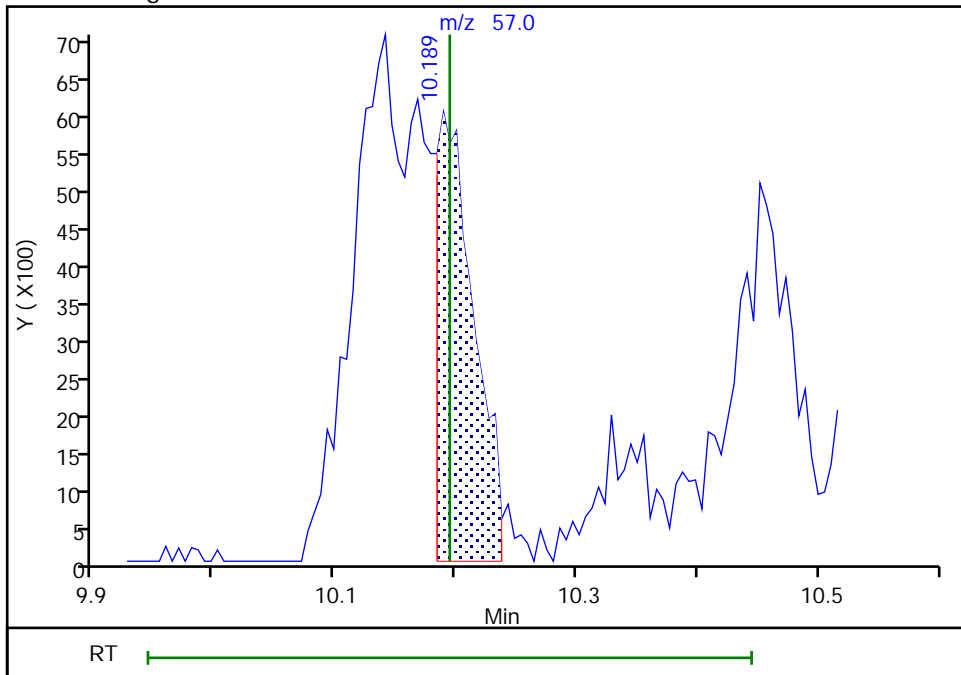
RT: 10.19  
Area: 15455  
Amount: 0.109204  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.19  
Area: 13158  
Amount: 0.092973  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 07-Dec-2018 09:42:41  
Audit Action: Manually Integrated

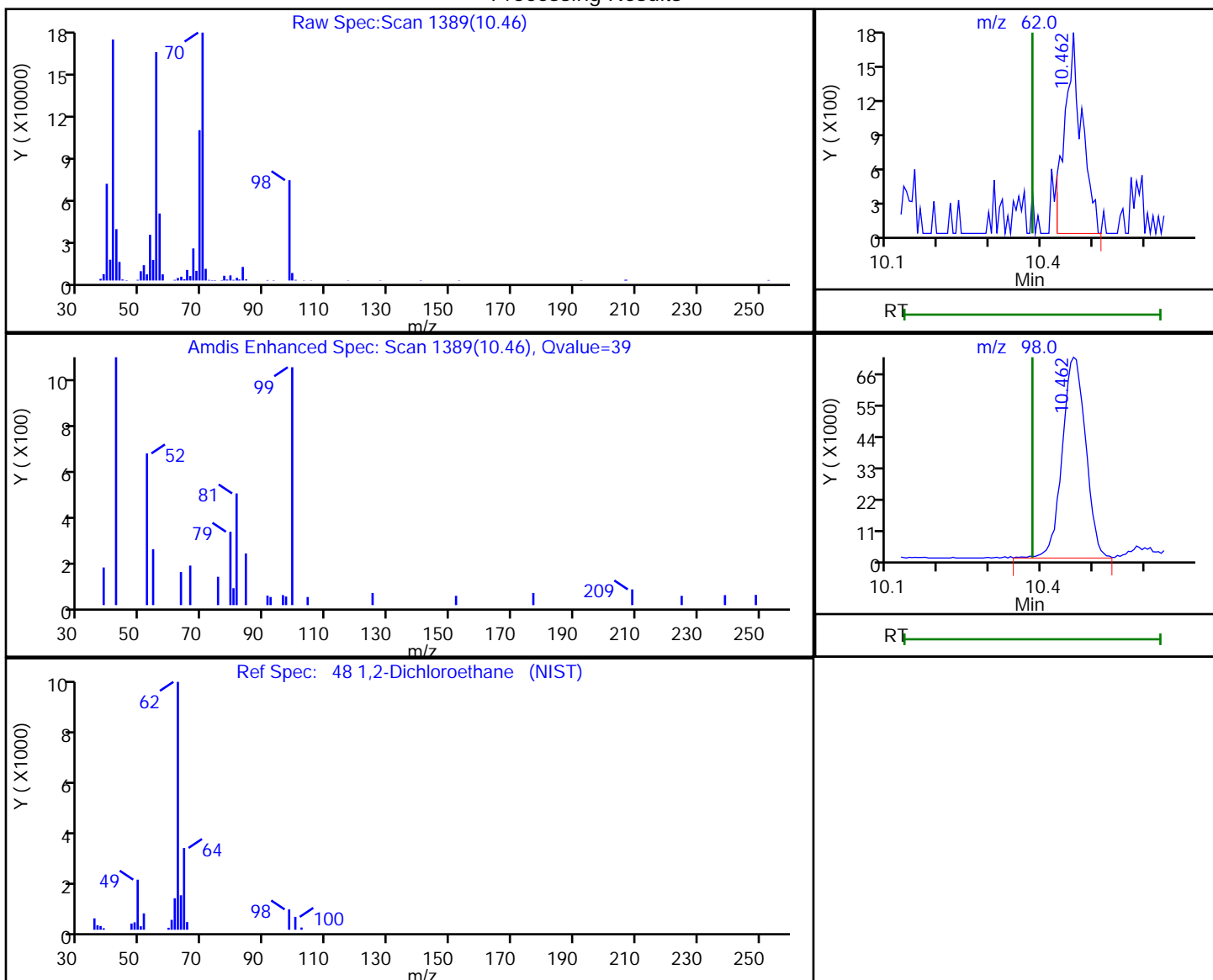
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

48 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.46 | 62.00 | 4148     | 0.072253 |
| 10.46 | 98.00 | 229023   |          |

Reviewer: guazzonig, 06-Dec-2018 13:45:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

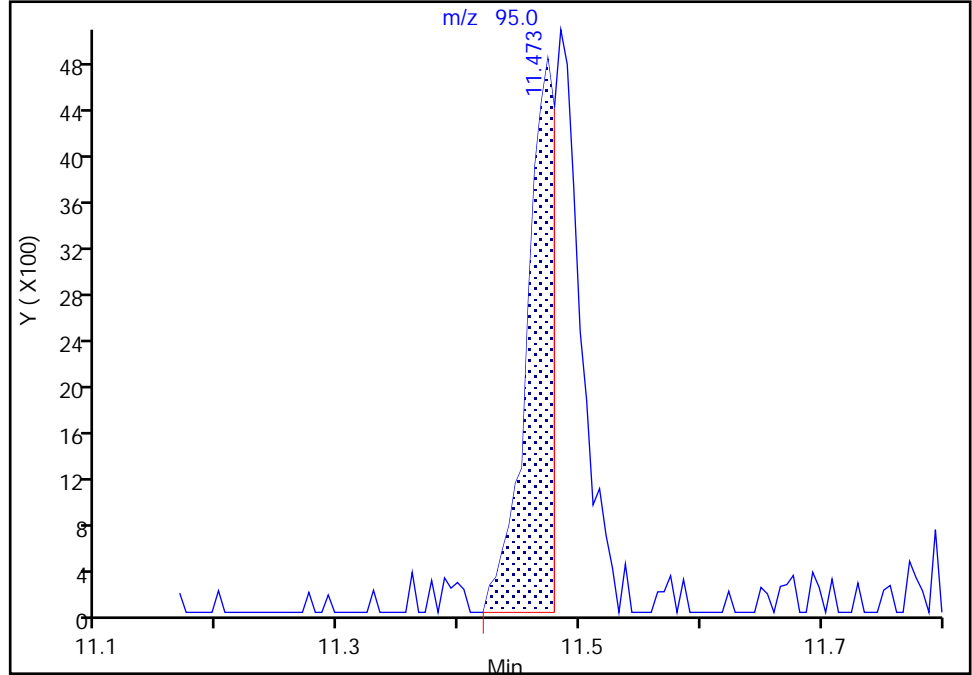
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Signal: 1

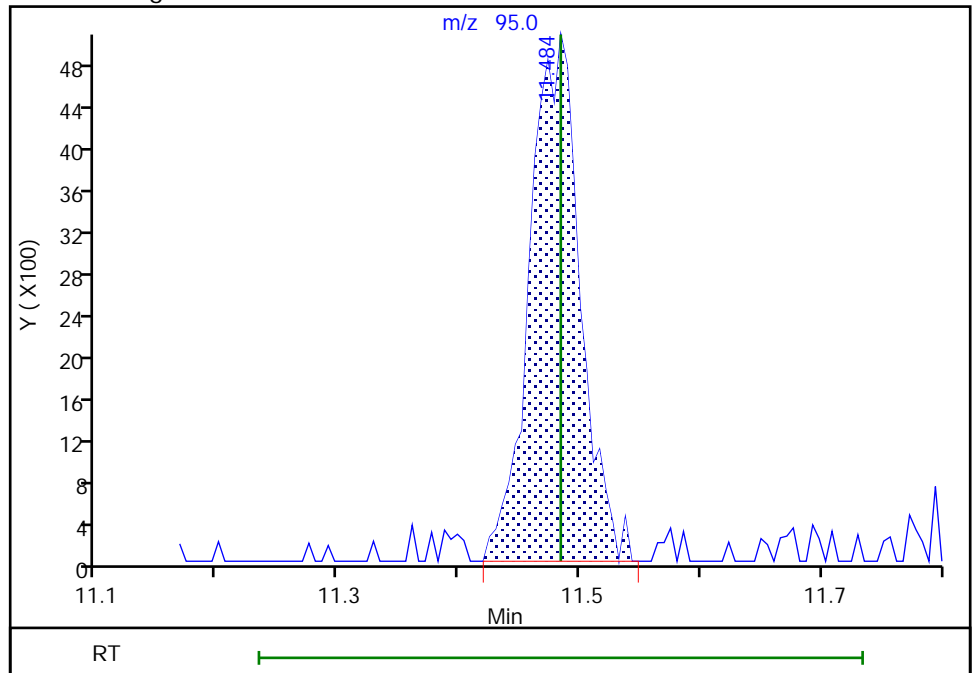
RT: 11.47  
Area: 7827  
Amount: 0.120502  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.48  
Area: 14649  
Amount: 0.225532  
Amount Units: ppb v/v

Manual Integration Results

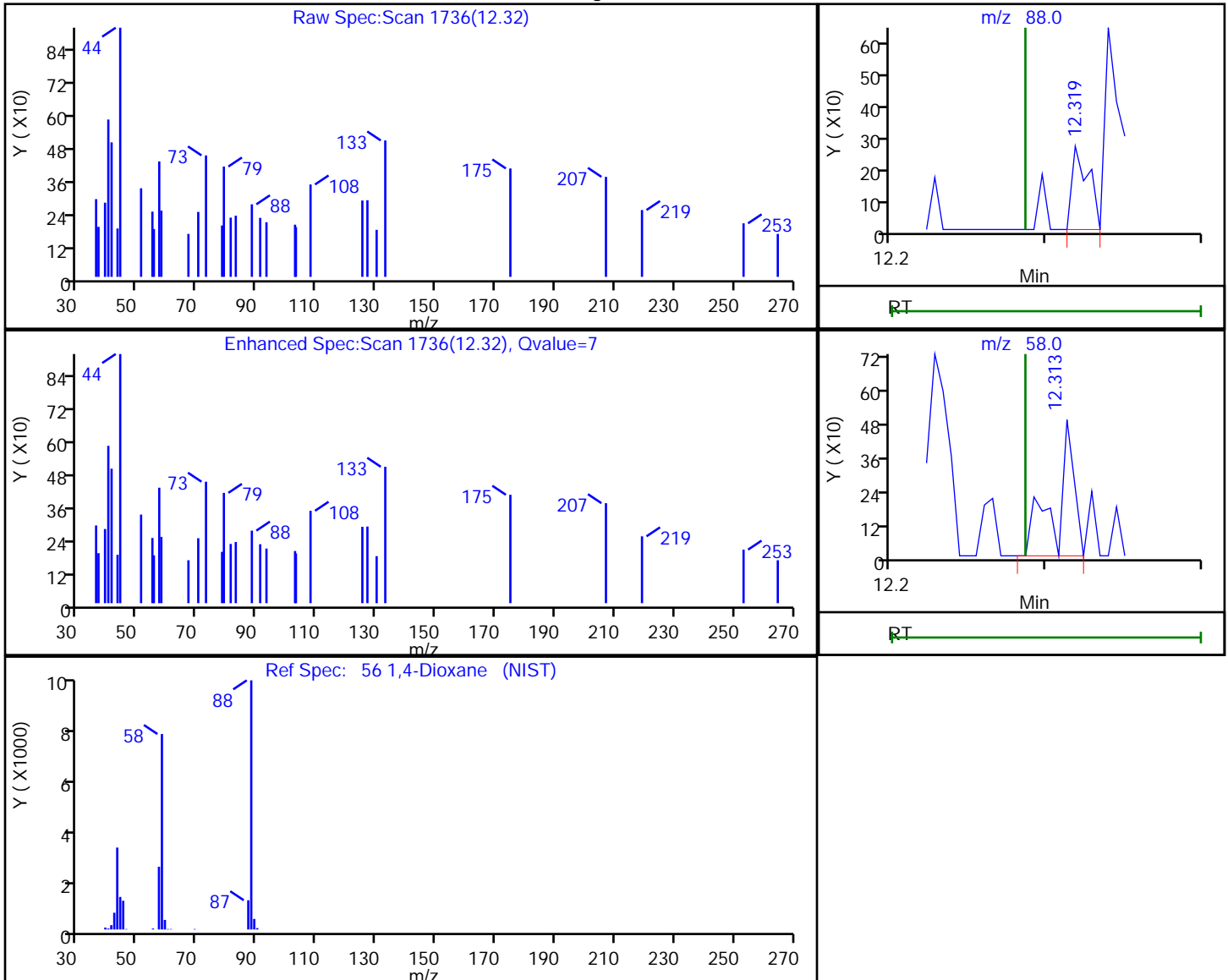


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.32 | 88.00 | 198      | 0.010852 |
| 12.31 | 58.00 | 411      |          |

Reviewer: bunmaa, 07-Dec-2018 09:43:13

Audit Action: Marked Compound Undetected

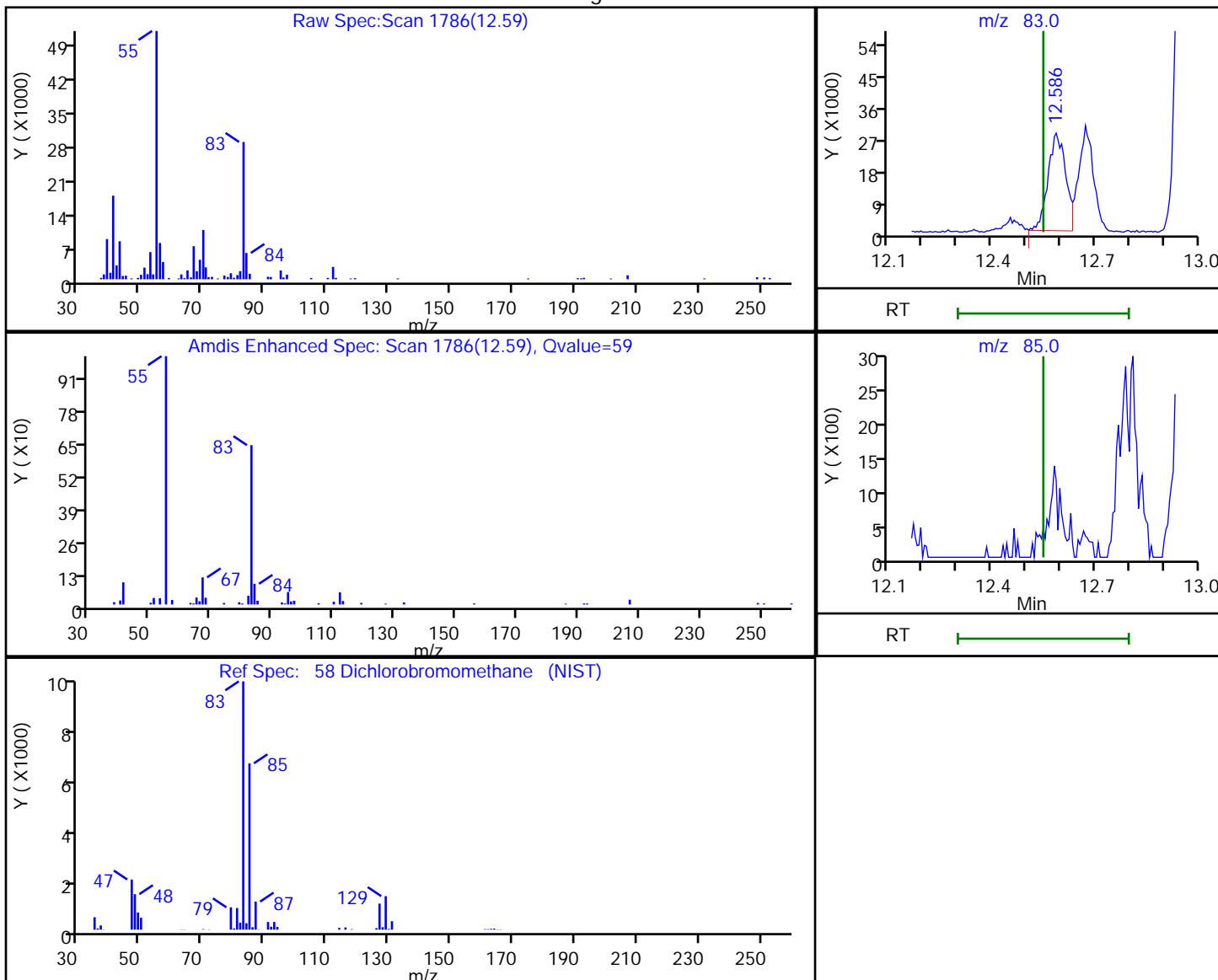
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.59 | 83.00 | 101341   | 1.004682 |
| 12.55 | 85.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:43:21

Audit Action: Marked Compound Undetected

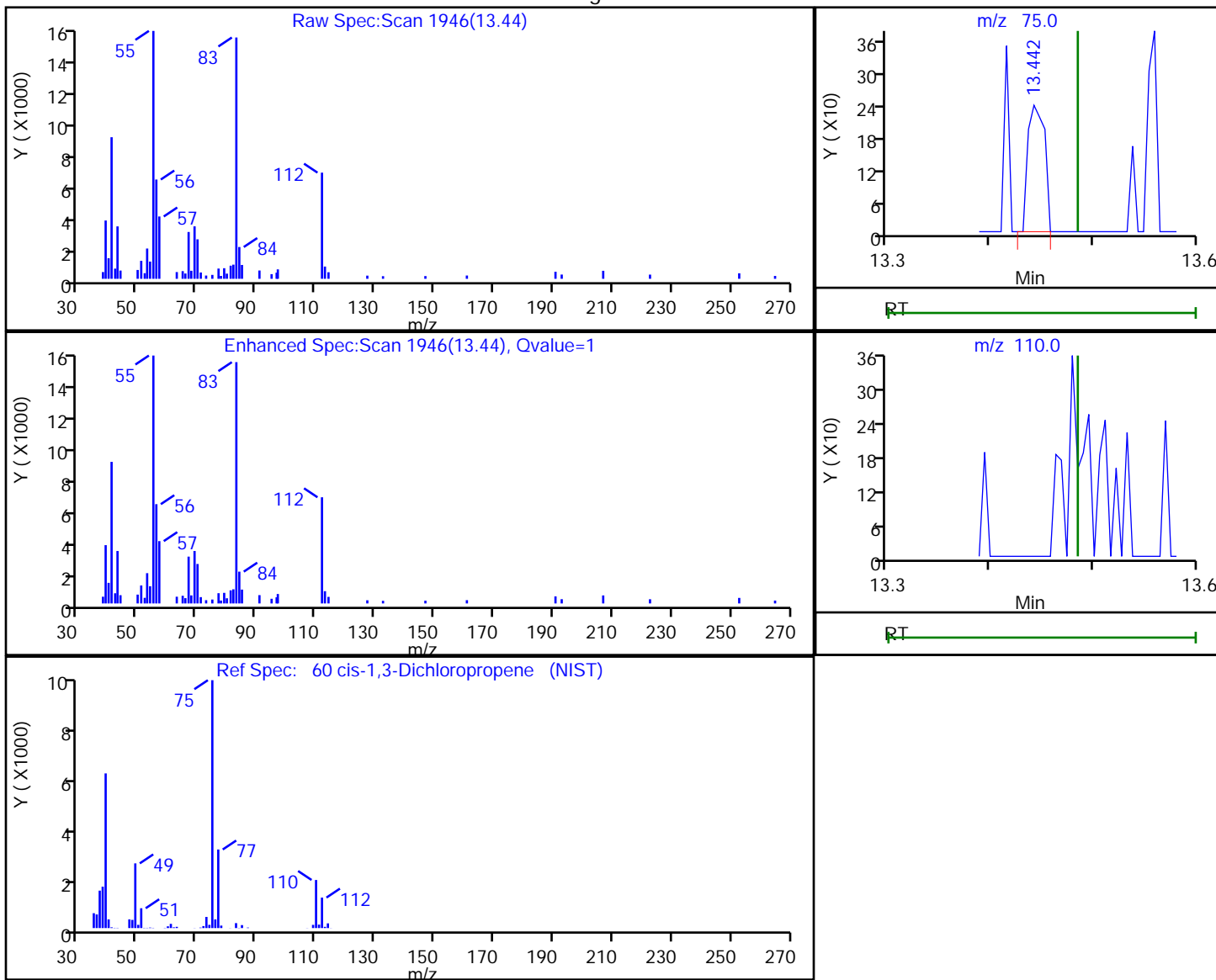
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.44 | 75.00  | 270      | 0.004323 |
| 13.48 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:43:23

Audit Action: Marked Compound Undetected

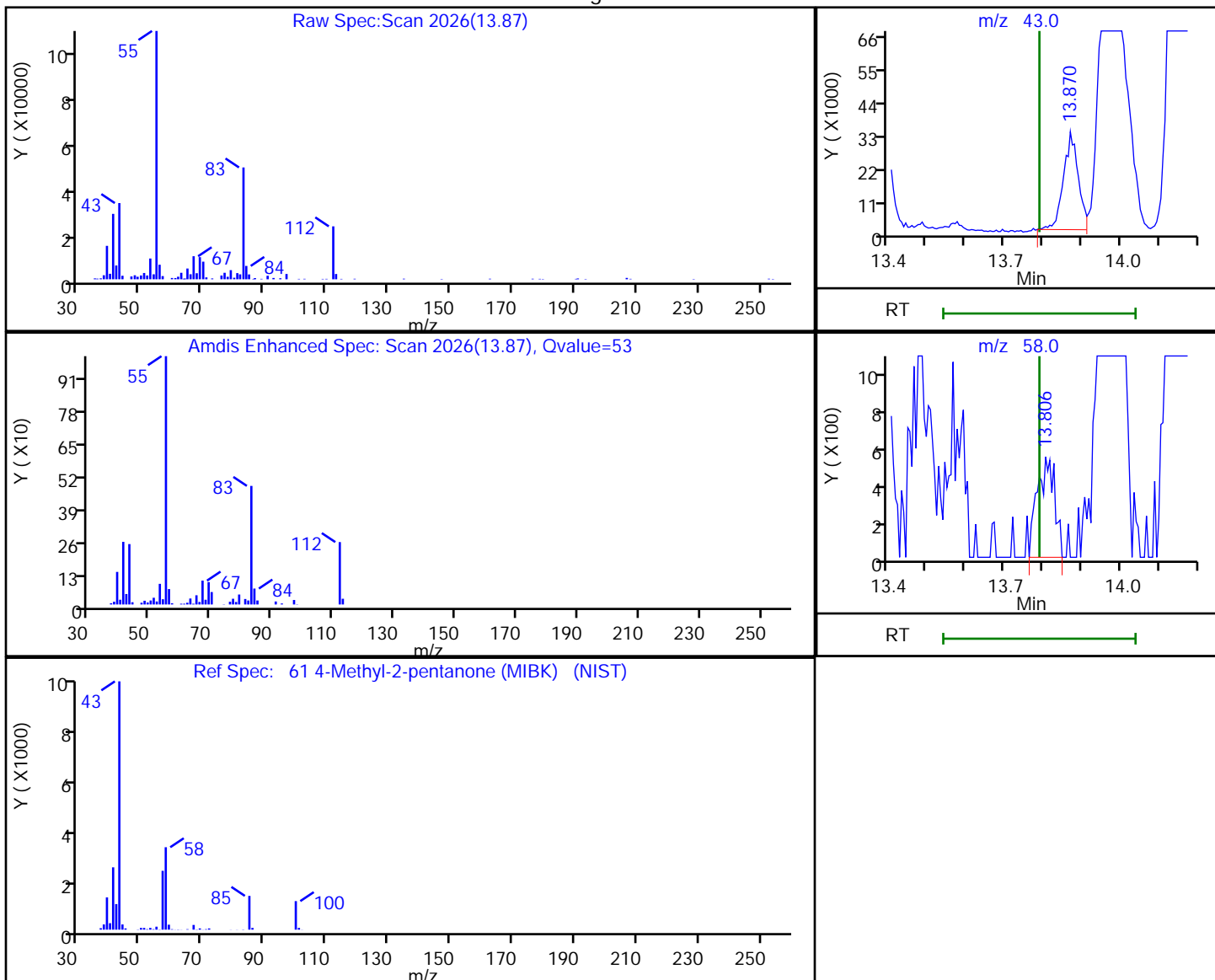
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.87 | 43.00 | 86865    | 1.345817 |
| 13.81 | 58.00 | 1579     |          |

Reviewer: guazzonig, 06-Dec-2018 13:46:22

Audit Action: Marked Compound Undetected

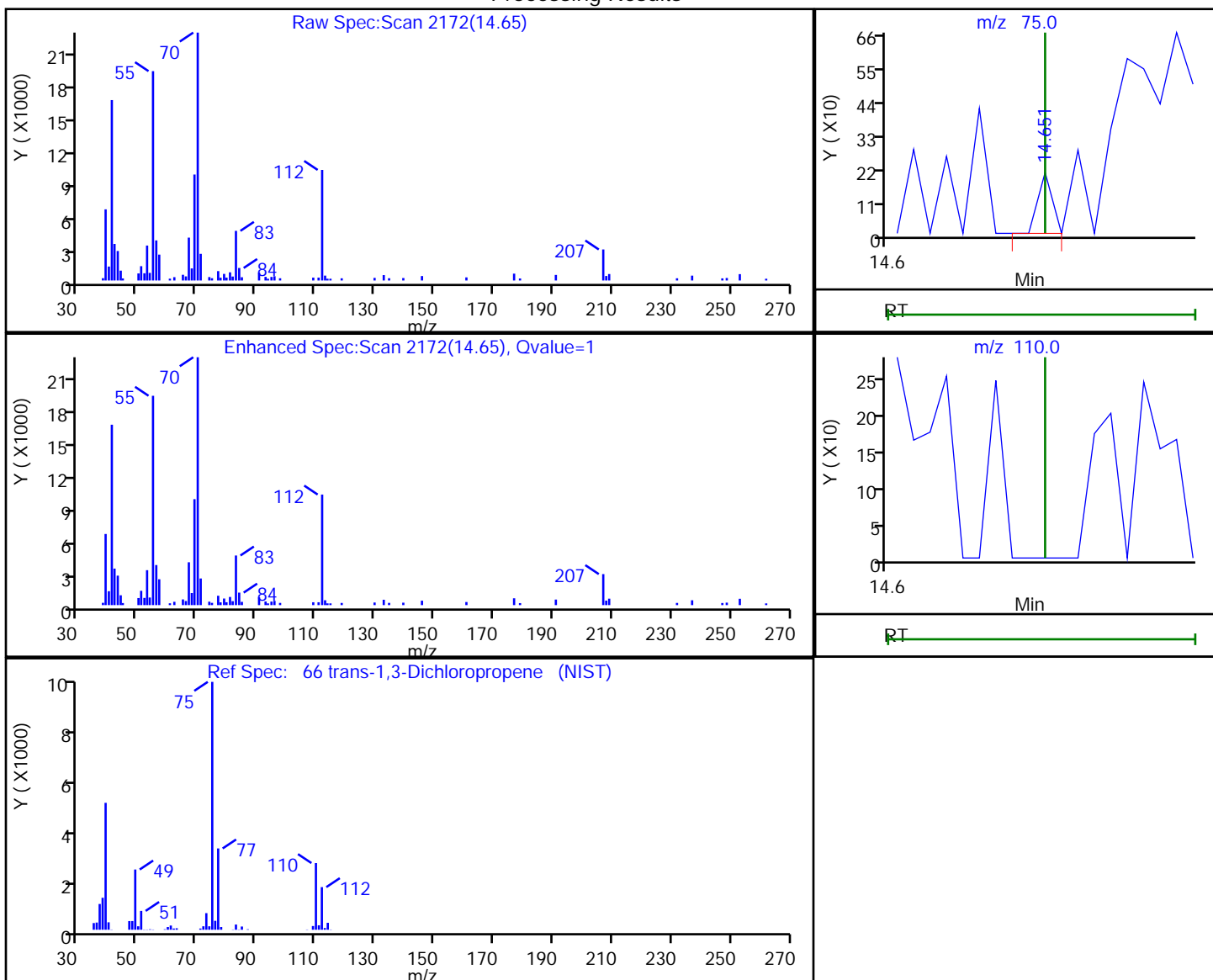
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.65 | 75.00  | 65       | 0.001058 |
| 14.65 | 110.00 | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:43:30  
 Audit Action: Marked Compound Undetected

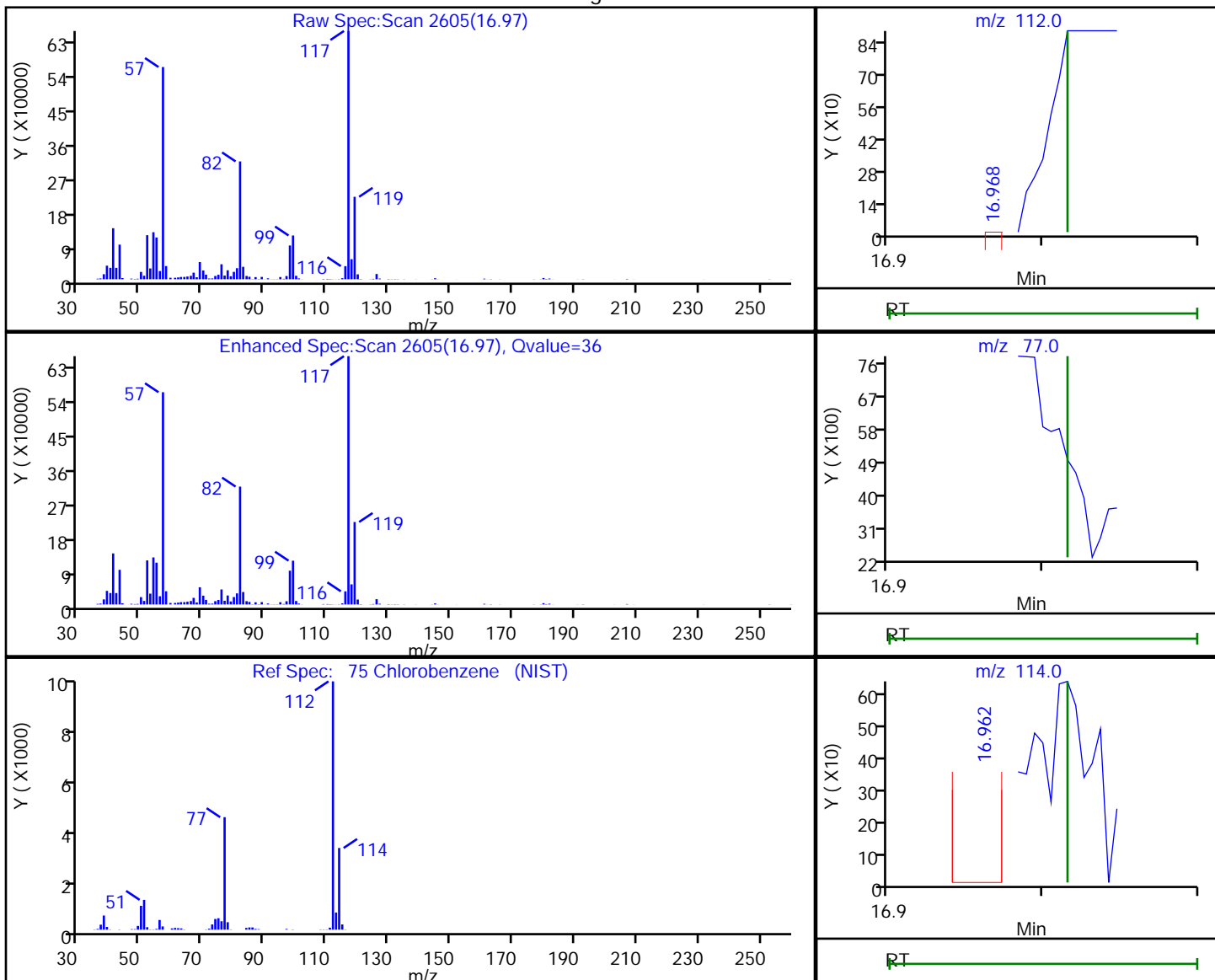
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 16.97 | 112.00 | 141      | 0.001084 |
| 16.96 | 114.00 | 905      |          |
| 17.02 | 77.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:43:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

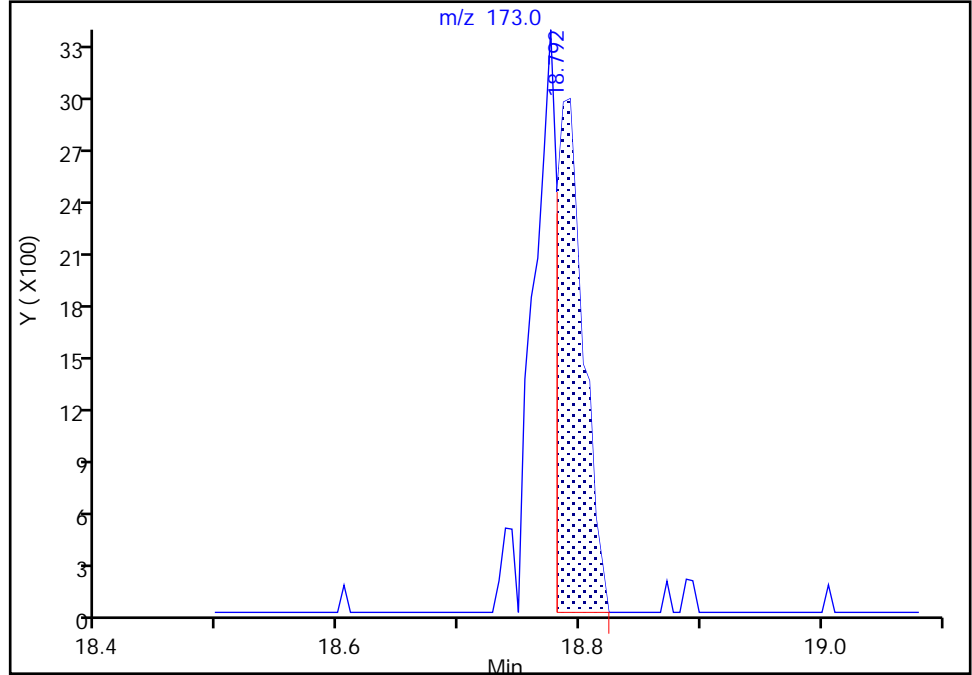
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Bromoform, CAS: 75-25-2

Signal: 1

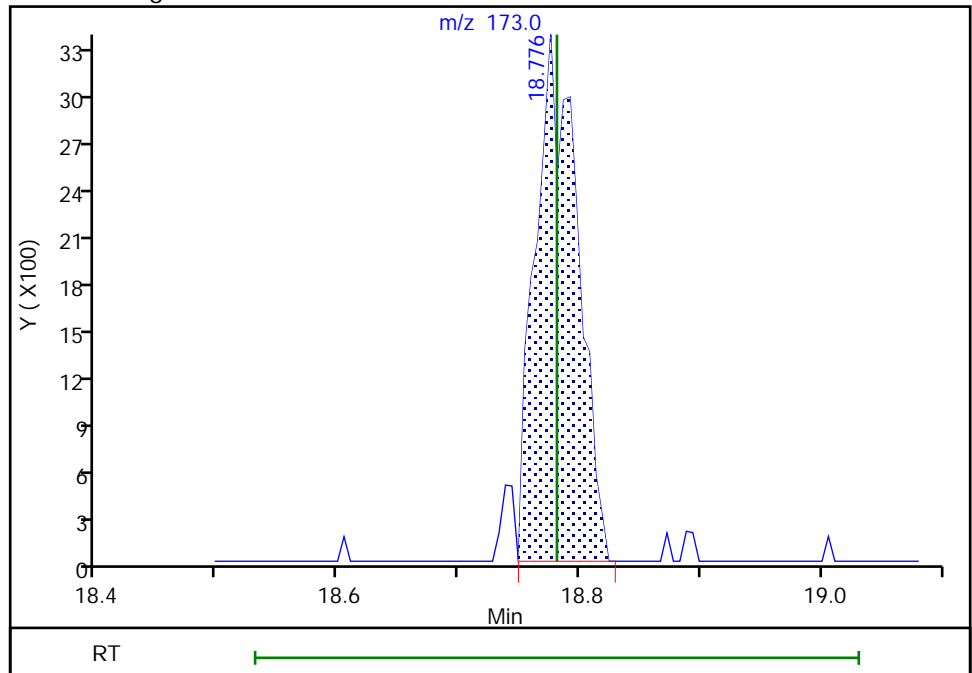
RT: 18.79  
Area: 4594  
Amount: 0.041526  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.78  
Area: 8229  
Amount: 0.074383  
Amount Units: ppb v/v

Manual Integration Results



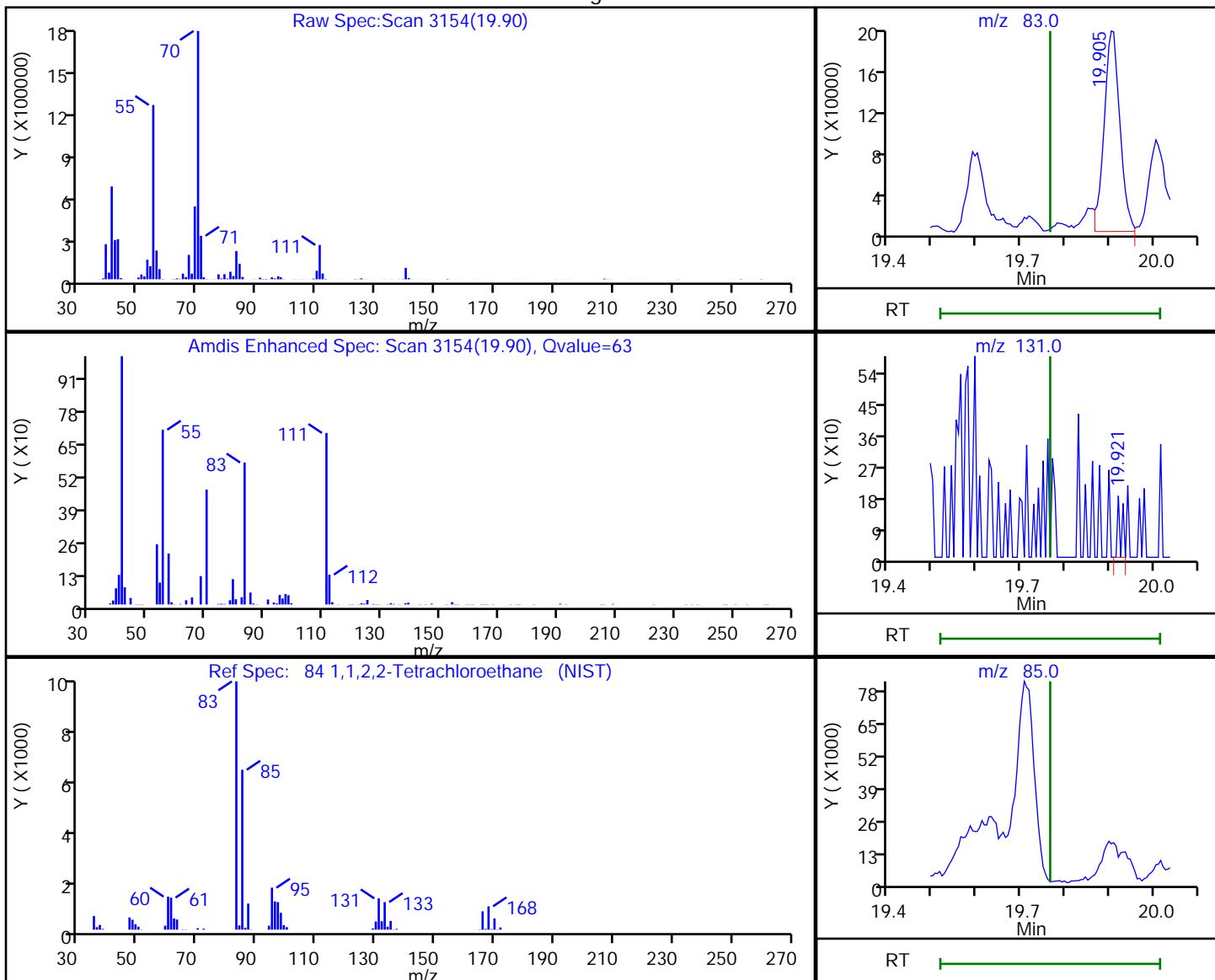


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.90 | 83.00  | 475917   | 4.067706 |
| 19.92 | 131.00 | 108      |          |
| 19.77 | 85.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:47:54  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

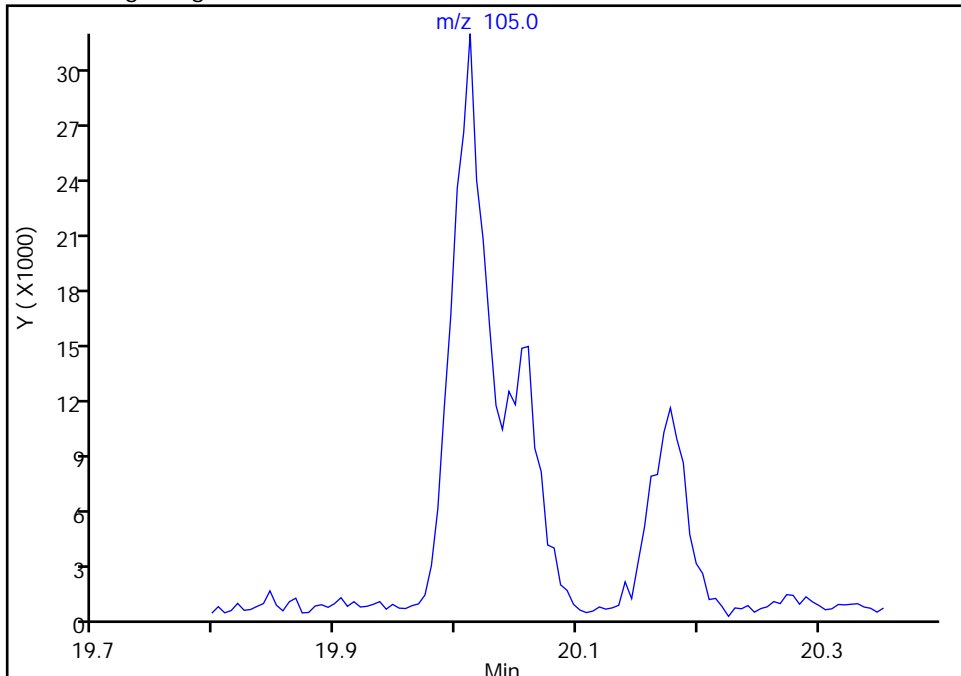
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

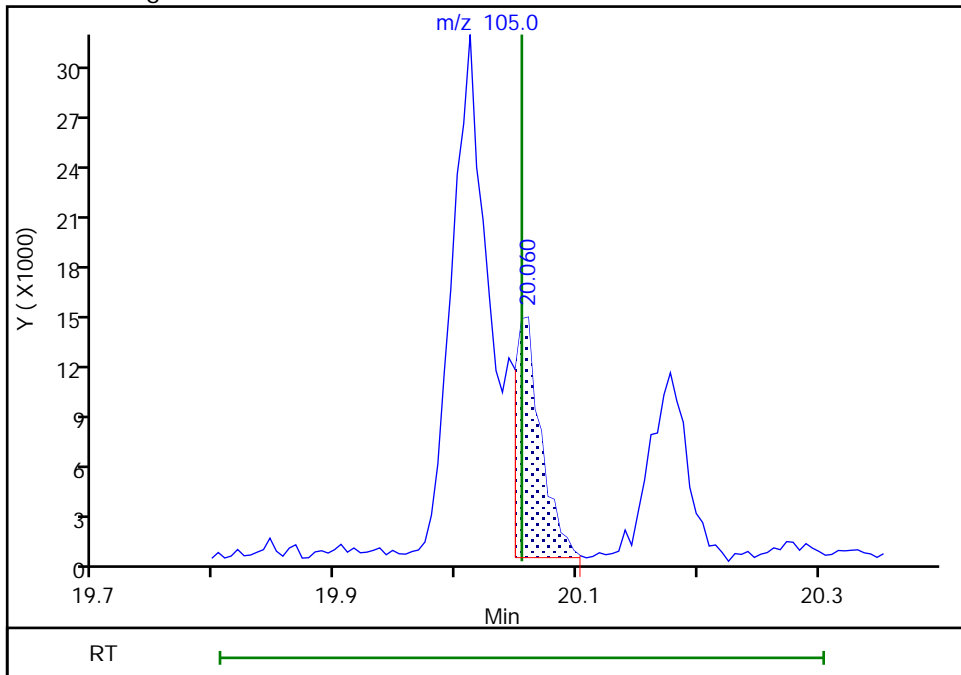
Not Detected  
Expected RT: 20.05

Processing Integration Results



Manual Integration Results

RT: 20.06  
Area: 21131  
Amount: 0.097211  
Amount Units: ppb v/v



TestAmerica Burlington

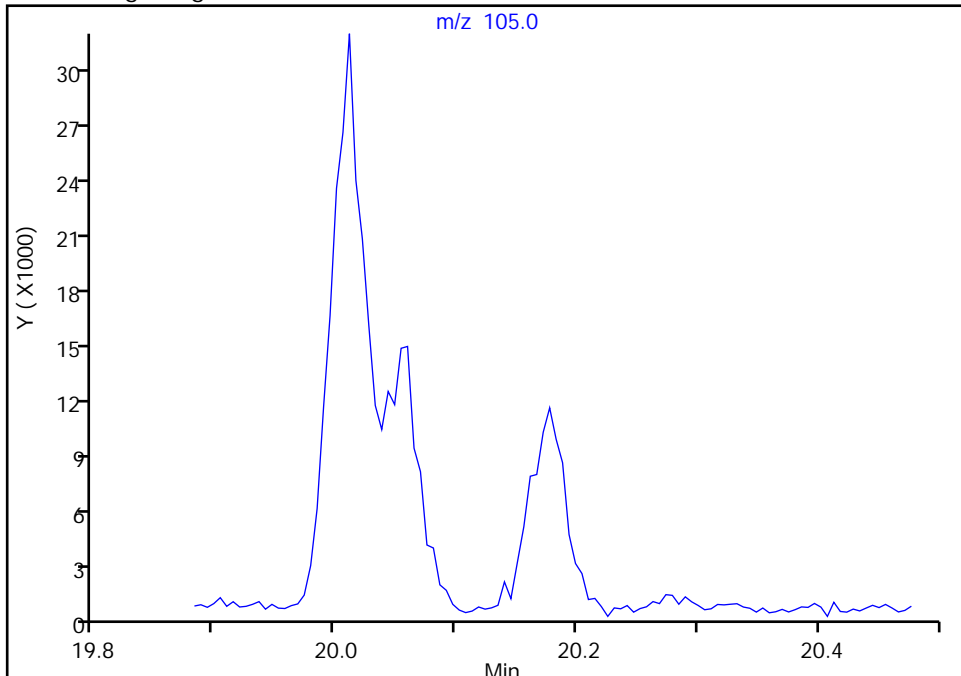
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

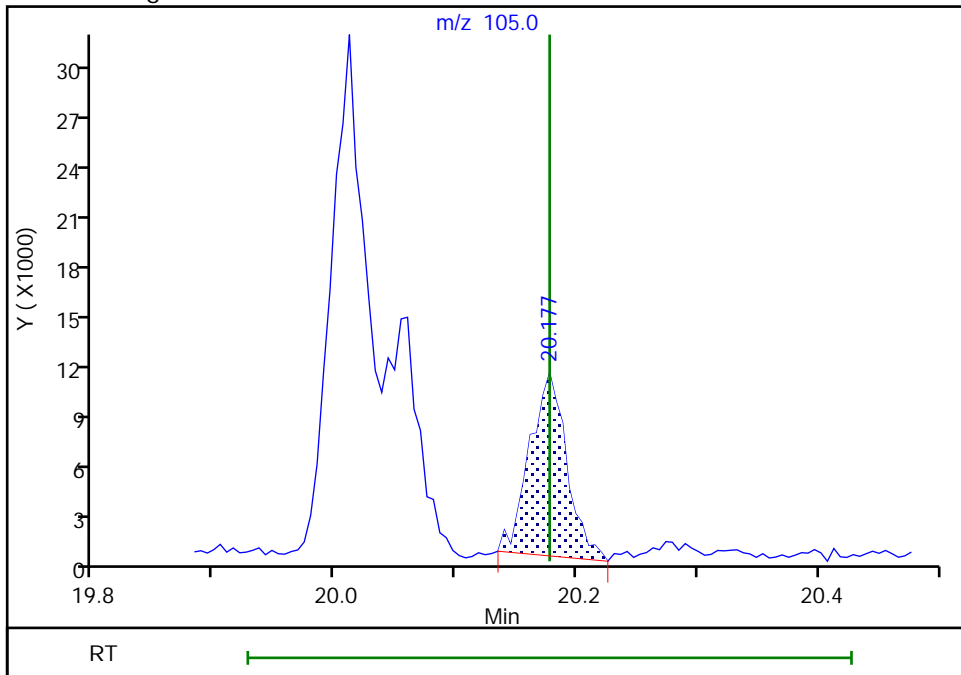
Signal: 1

Not Detected  
Expected RT: 20.18

Processing Integration Results



Manual Integration Results



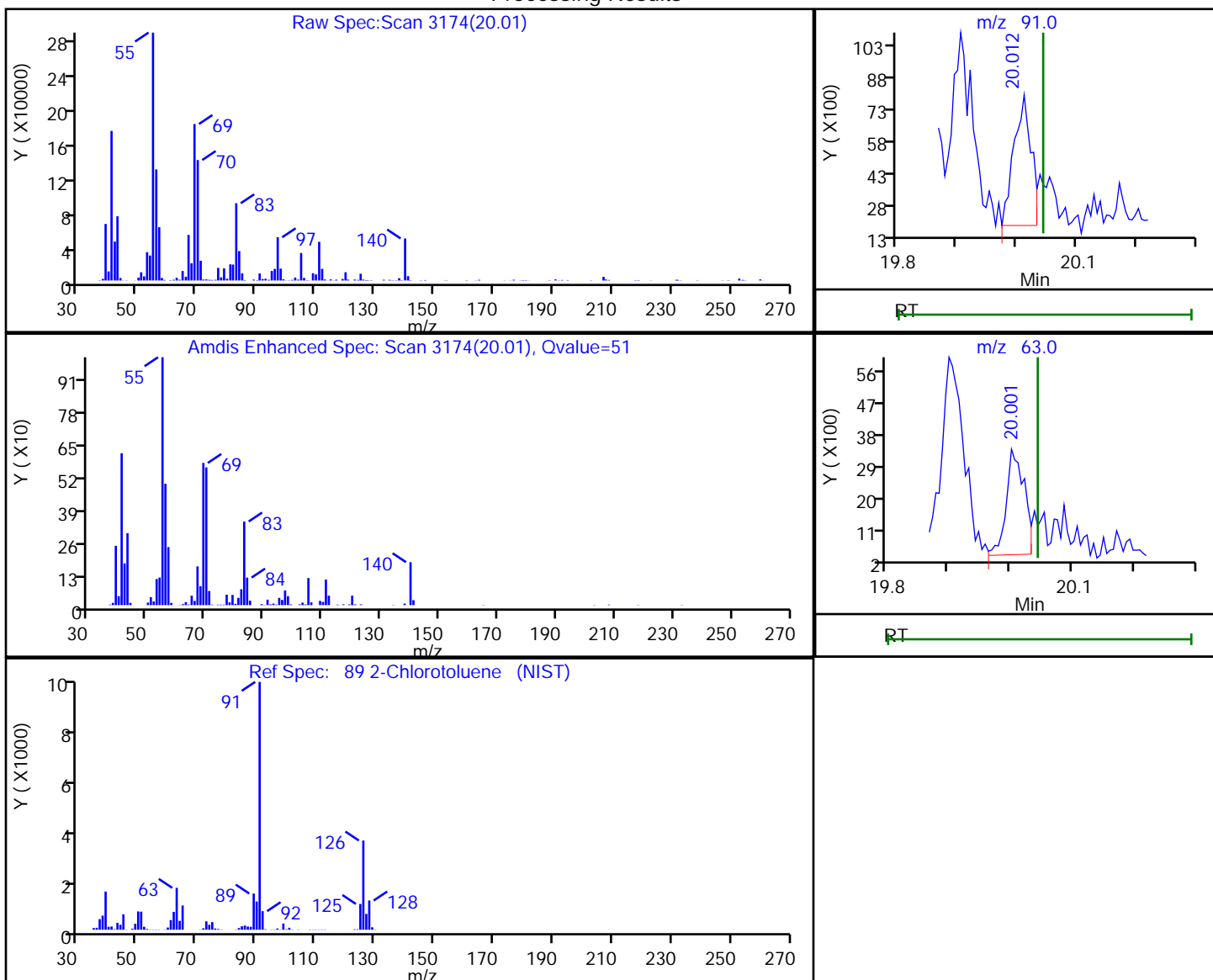
RT: 20.18  
Area: 22847  
Amount: 0.122847  
Amount Units: ppb v/v

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.01 | 91.00 | 12506    | 0.064851 |
| 20.00 | 63.00 | 6153     |          |

Reviewer: guazzonig, 06-Dec-2018 13:48:02

Audit Action: Marked Compound Undetected

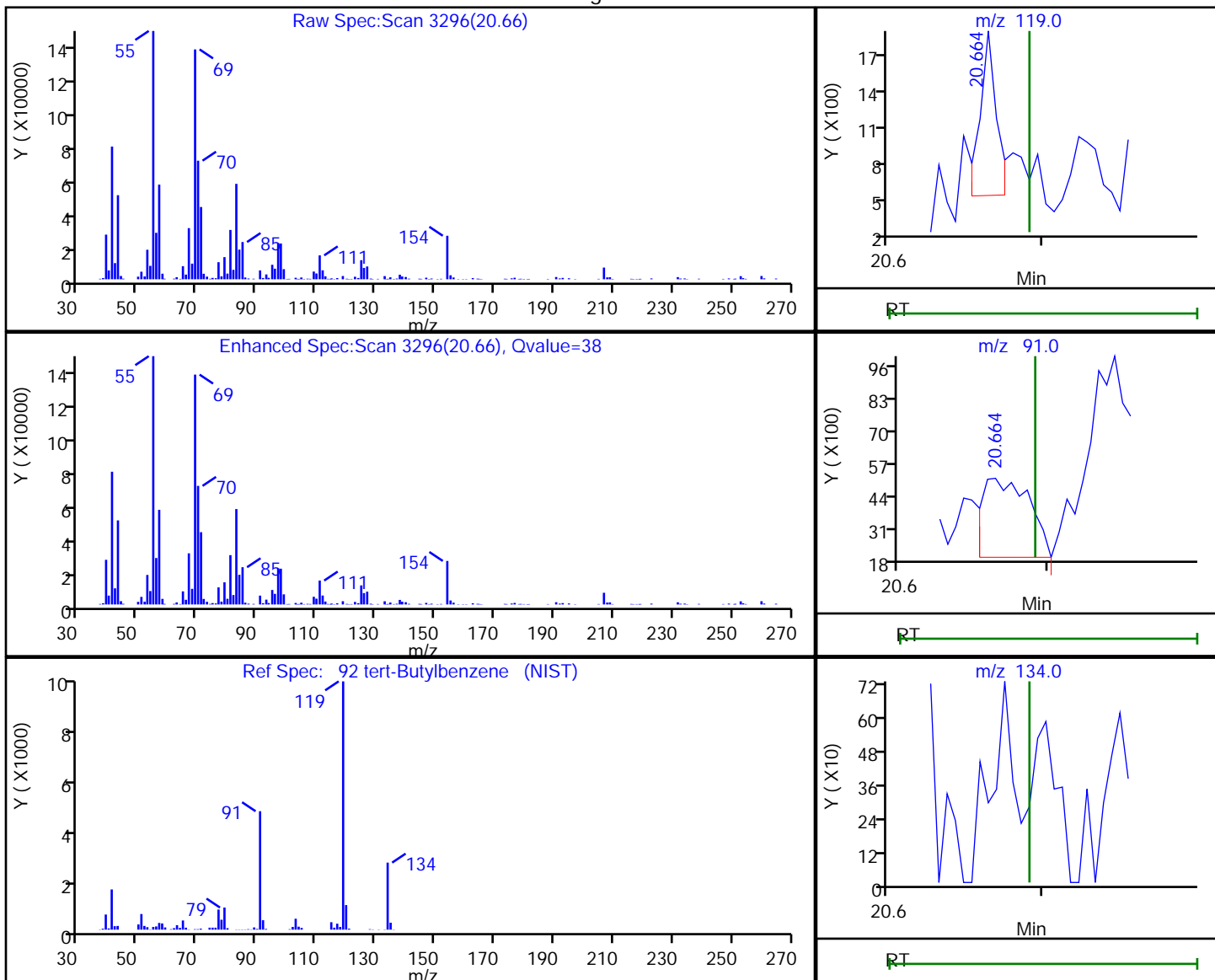
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.66 | 119.00 | 951      | 0.005467 |
| 20.66 | 91.00  | 7054     |          |
| 20.69 | 134.00 | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:00  
 Audit Action: Marked Compound Undetected

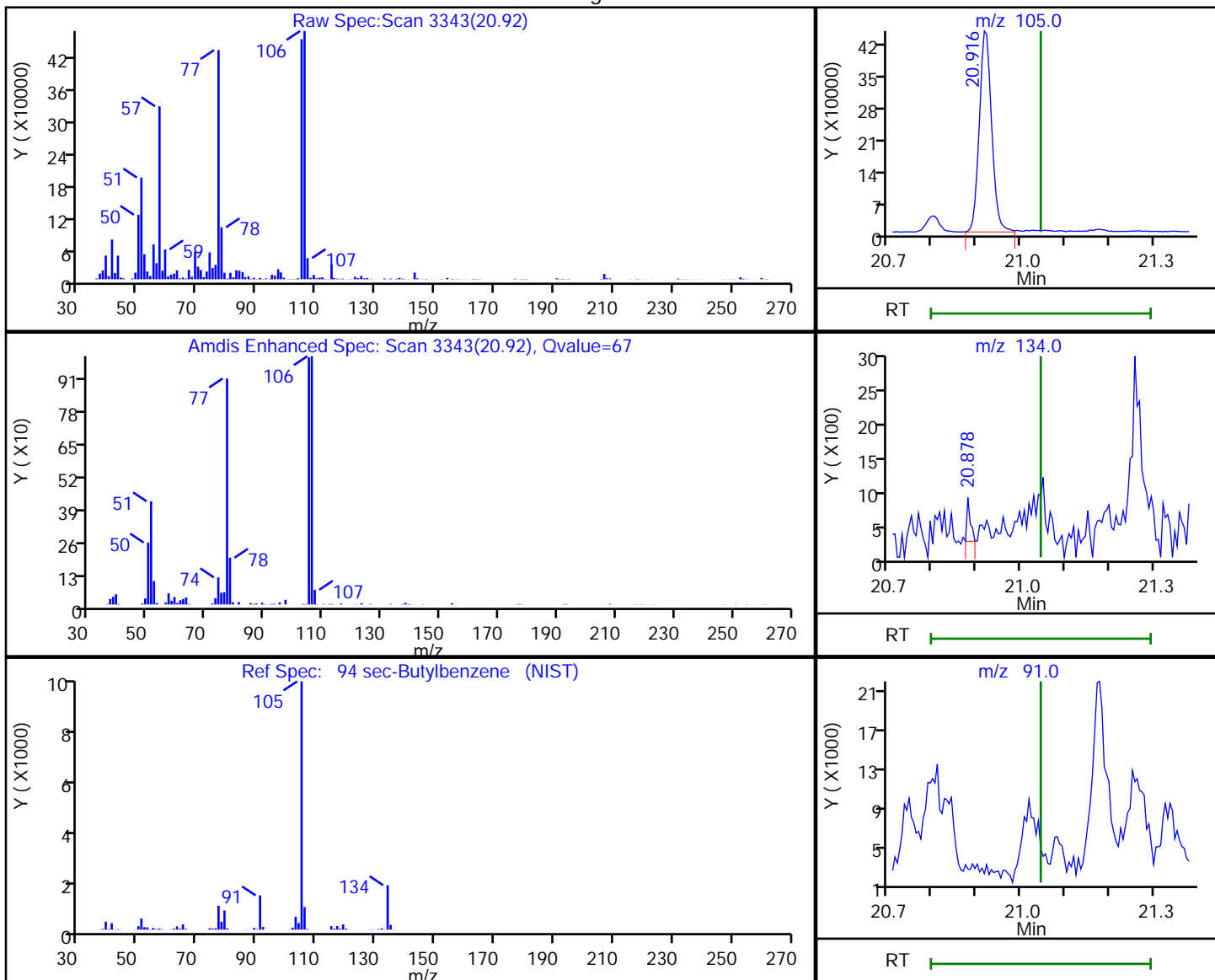
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 868045   | 3.365088 |
| 20.88 | 134.00 | 353      |          |
| 21.04 | 91.00  | 0        |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:01  
 Audit Action: Marked Compound Undetected

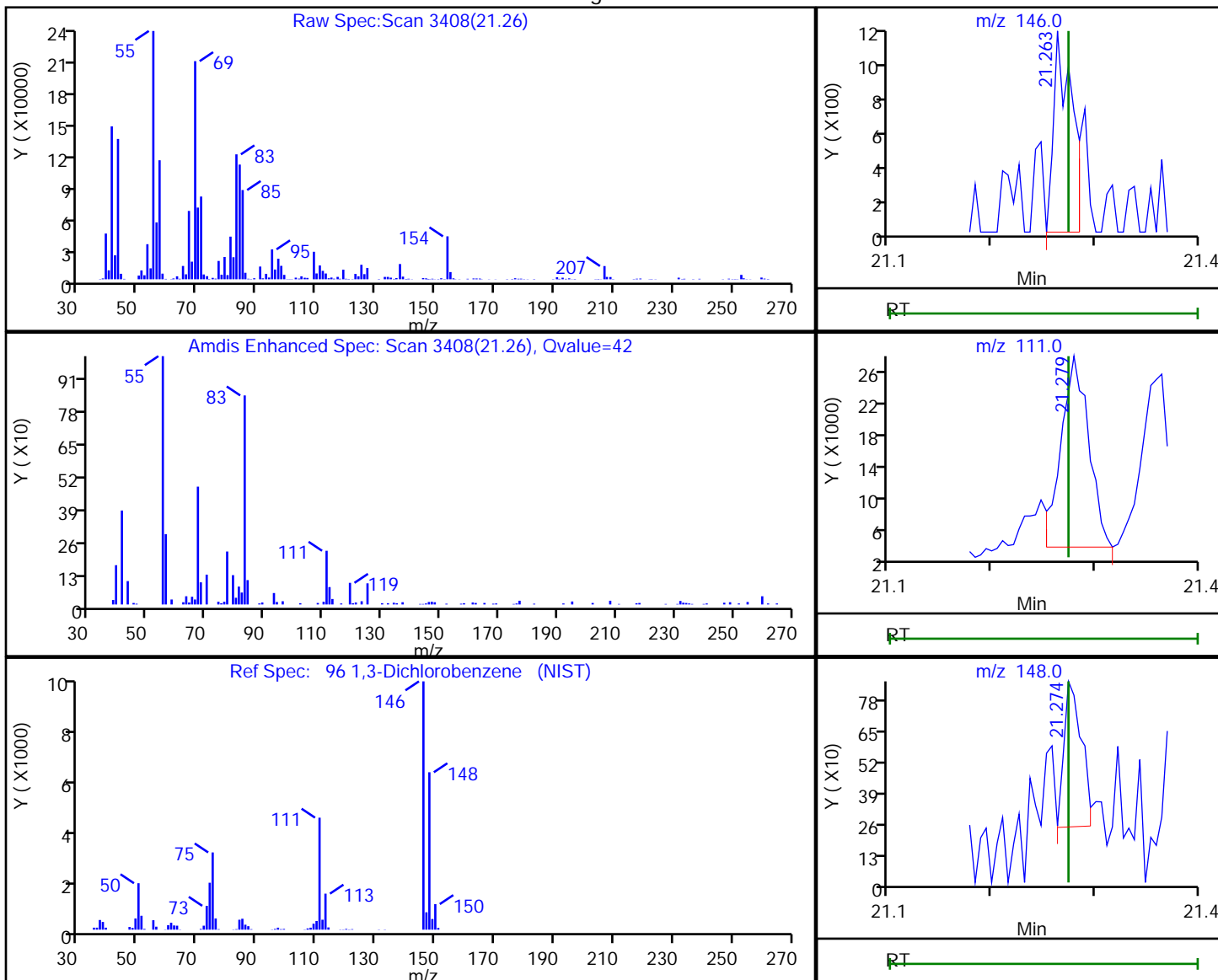
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 146.00 | 1390     | 0.009347 |
| 21.28 | 111.00 | 44597    |          |
| 21.27 | 148.00 | 728      |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:08  
Audit Action: Marked Compound Undetected

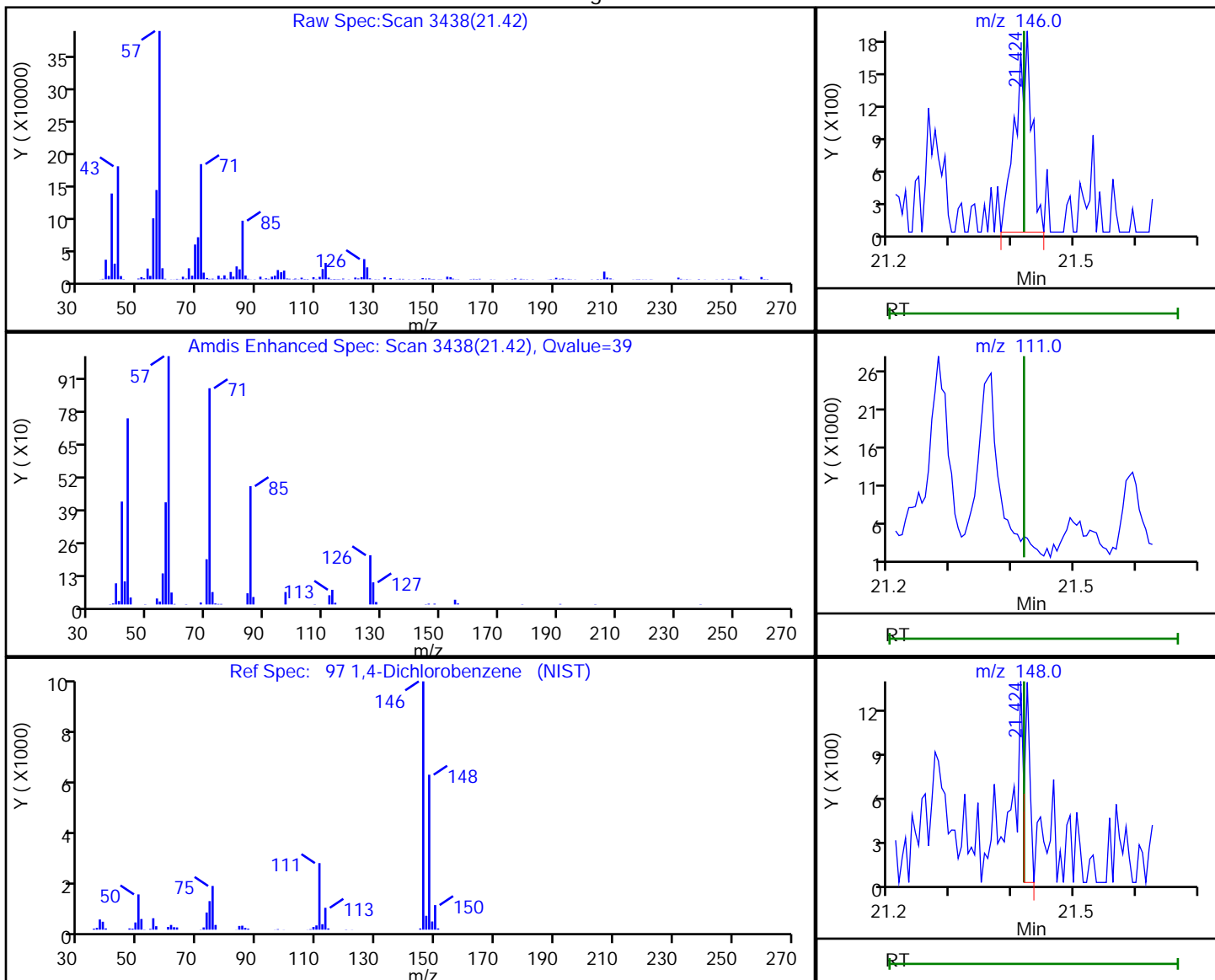
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 3226     | 0.022686 |
| 21.42 | 111.00 | 0        |          |
| 21.42 | 148.00 | 785      |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:14  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

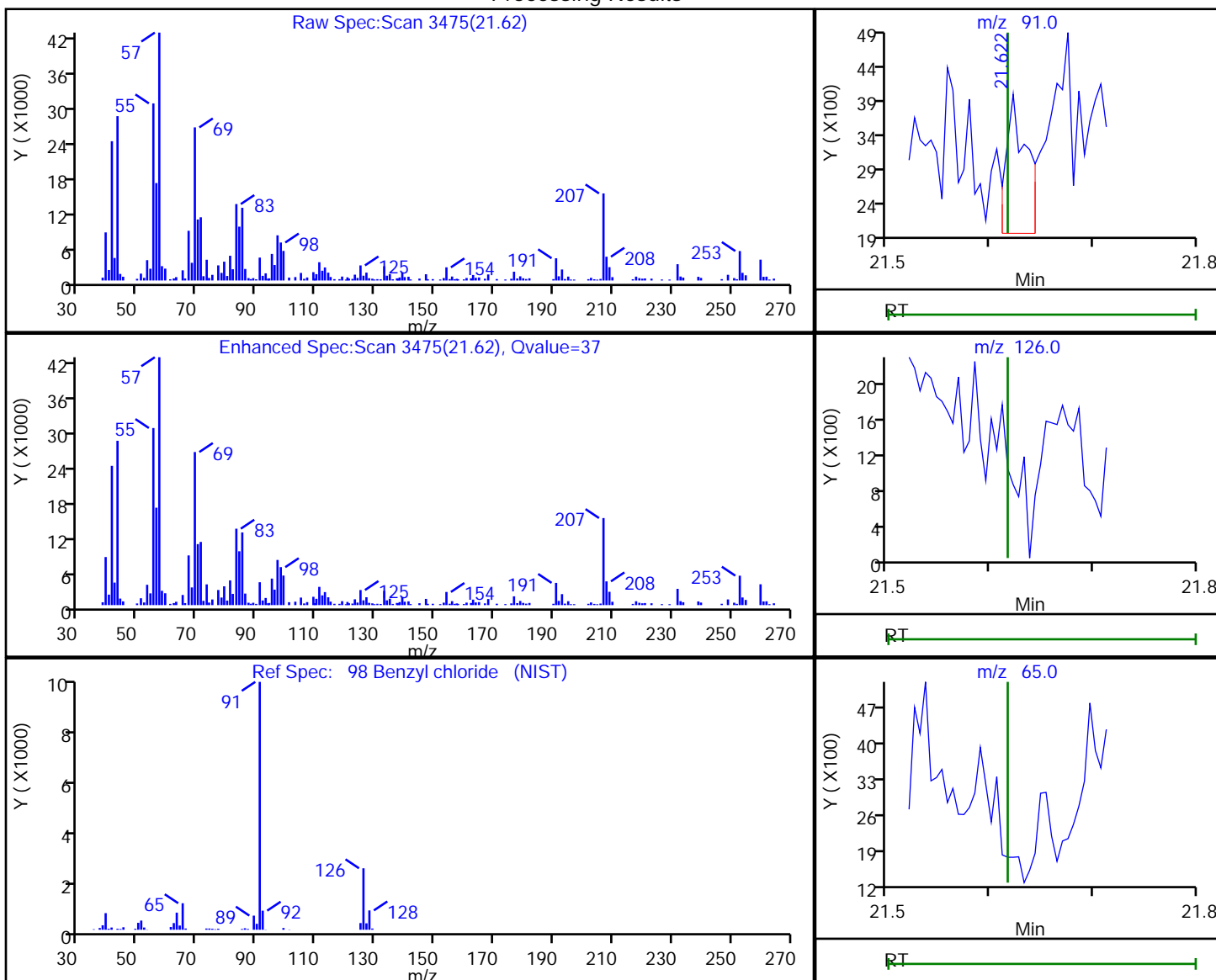


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.62 | 91.00  | 2751     | 0.015672 |
| 21.62 | 126.00 | 0        |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: bunmaa, 07-Dec-2018 09:45:34

Audit Action: Marked Compound Undetected

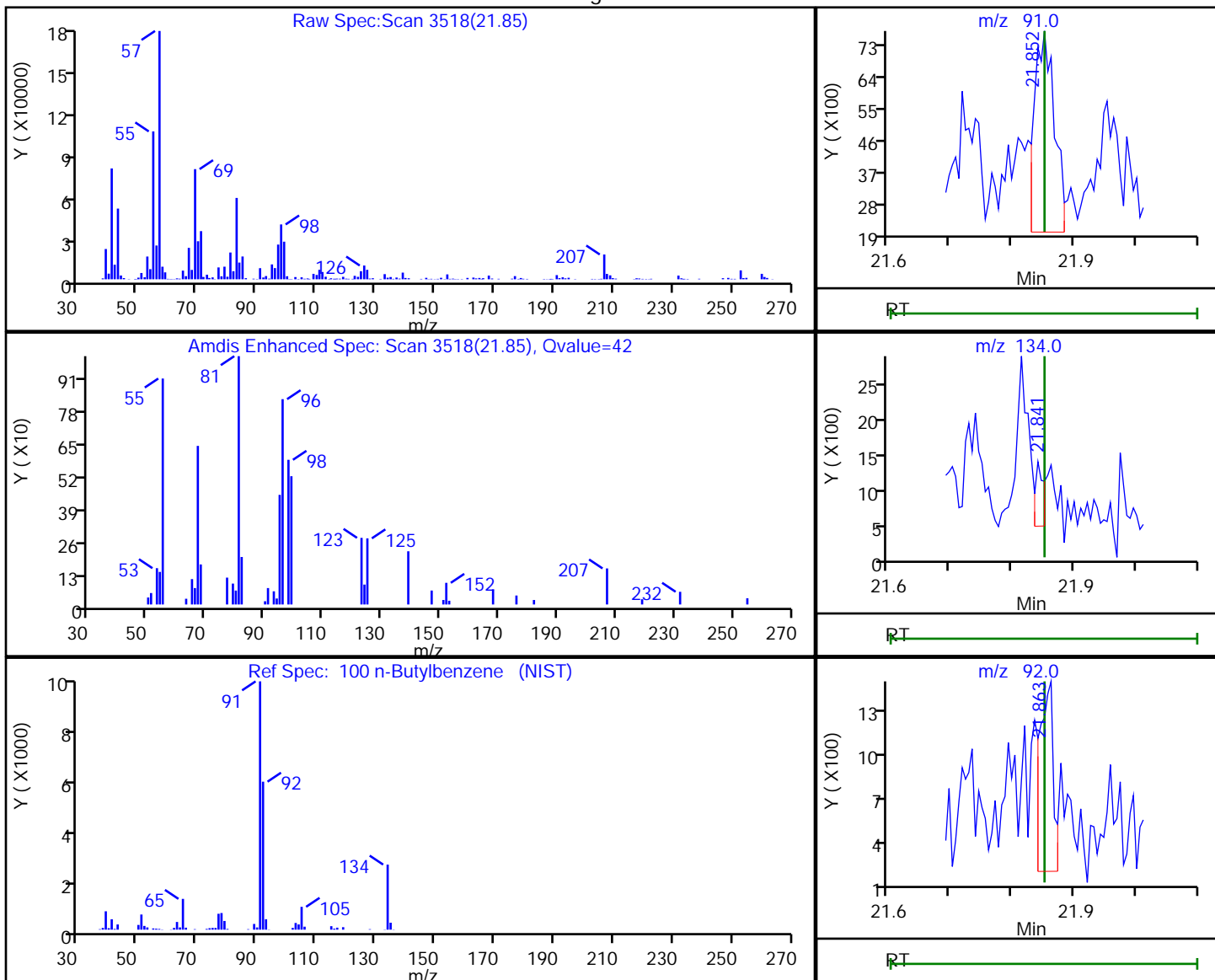
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 12849    | 0.063747 |
| 21.84 | 134.00 | 864      |          |
| 21.86 | 92.00  | 1888     |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:21  
 Audit Action: Marked Compound Undetected

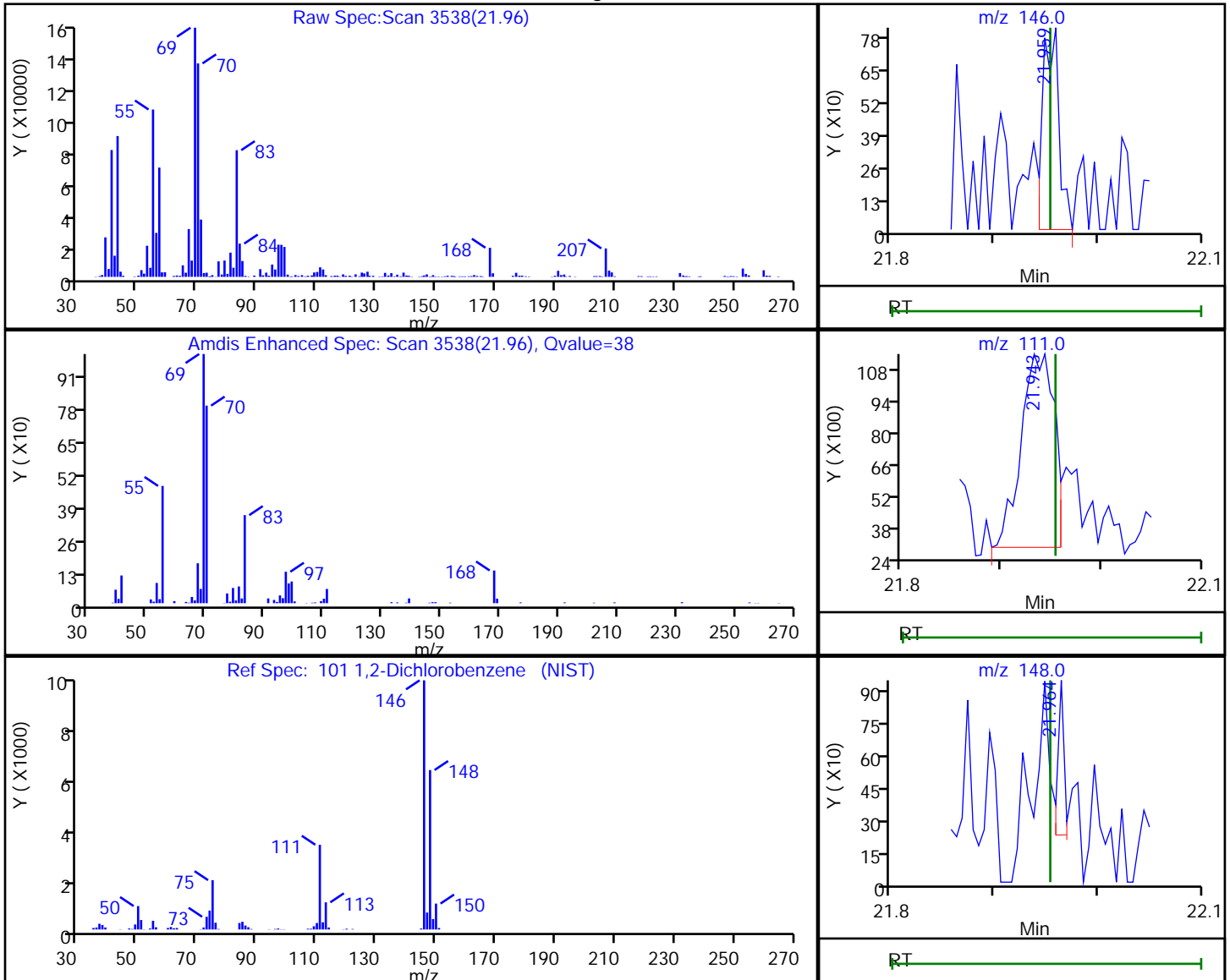
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.96 | 146.00 | 882      | 0.006454 |
| 21.94 | 111.00 | 20196    |          |
| 21.96 | 148.00 | 296      |          |

Reviewer: bunmaa, 07-Dec-2018 09:45:43  
 Audit Action: Marked Compound Undetected

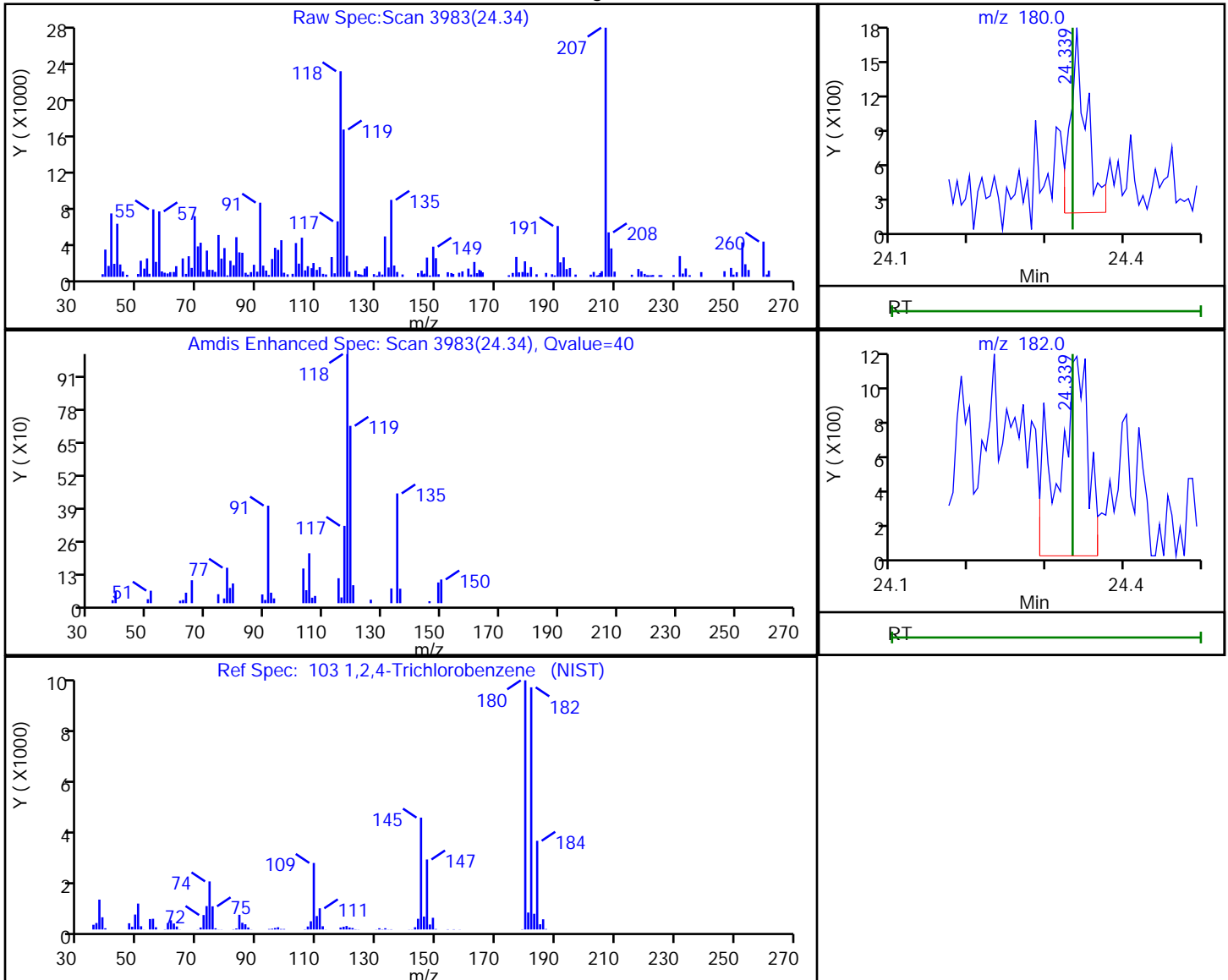
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
Client ID: MP-3\_20181120  
Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.34 | 180.00 | 2291     | 0.022303 |
| 24.34 | 182.00 | 2911     |          |

Reviewer: guazzonig, 06-Dec-2018 13:49:20  
Audit Action: Marked Compound Undetected

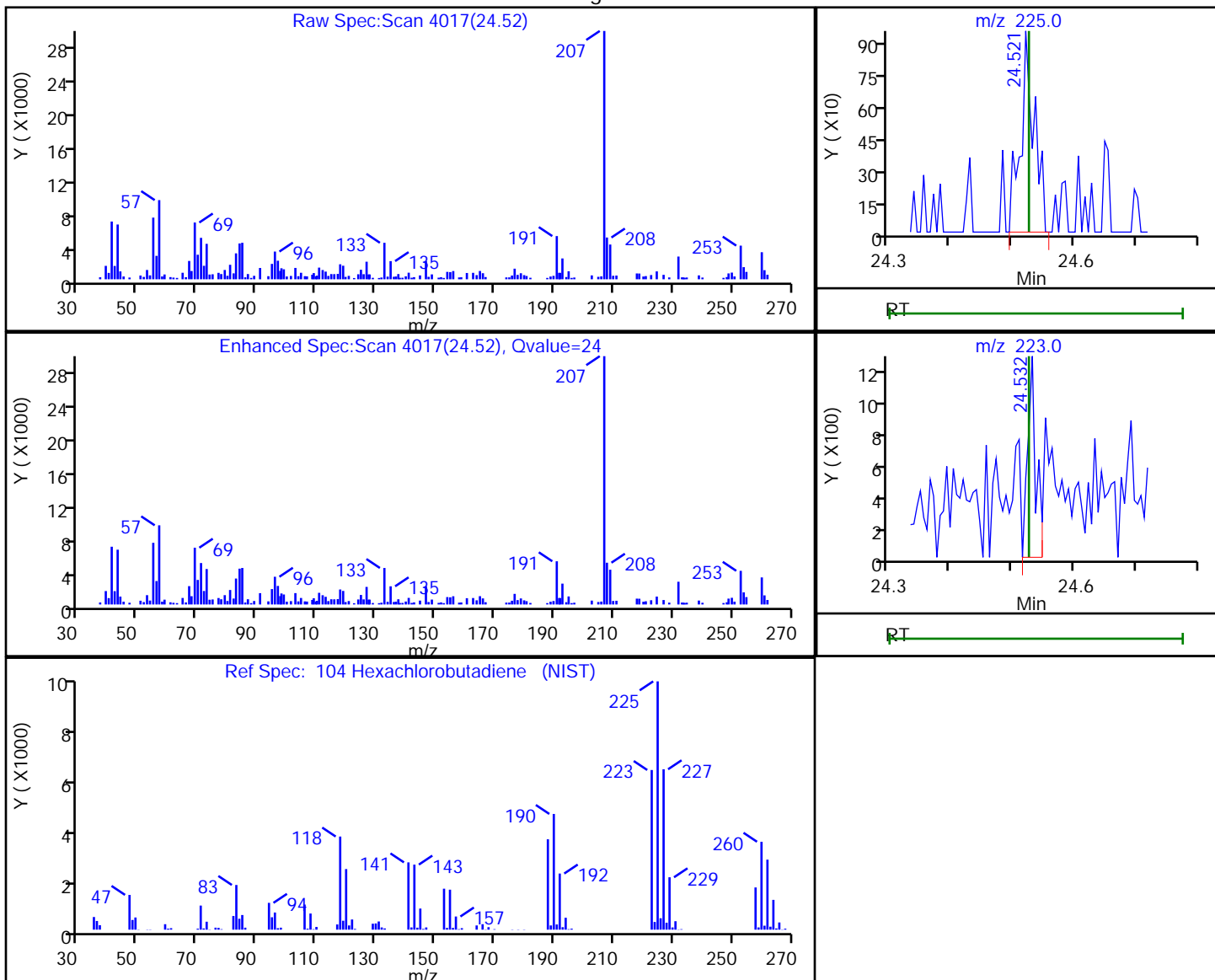
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-025.D  
 Injection Date: 06-Dec-2018 10:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-9 Lab Sample ID: 200-46353-9  
 Client ID: MP-3\_20181120  
 Operator ID: ert ALS Bottle#: 25 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.52 | 225.00 | 1481     | 0.014493 |
| 24.53 | 223.00 | 1203     |          |

Reviewer: bunmaa, 07-Dec-2018 09:45:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.53   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.54   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 3.6    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.31   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 28     |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.2    |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 1.0    |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.5    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.52   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.079  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.31   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.48   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 1.7    |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 2.2    |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.32   |   | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.78   |   | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.28   |   | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.97   |   | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 0.41   |   | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.29   |   | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.9    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 8.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.7    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 66     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 3.7    |   | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 3.6    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 7.5    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.8    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.50   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.4    |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.5    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 6.8    |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 8.2    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 2.2    |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 3.2    |   | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.2    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 4.2    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 1.8    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 1.4    |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Lims ID: 200-46353-A-10  
 Client ID: MP-4\_20181120  
 Sample Type: Client  
 Inject. Date: 06-Dec-2018 23:23:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-012  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 17:05:56 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: puangmaleek

Date:

07-Dec-2018 17:05:56

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.149         | -0.005         | 95 | 115353   | 0.5775            |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | -0.005         | 96 | 44843    | 0.5273            | M     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.347         |                |    |          | ND                | U     |
| 5 Chloromethane               | 50  | 3.449     | 3.460         | -0.010         | 98 | 20911    | 0.5380            |       |
| 6 Butane                      | 43  | 3.598     | 3.600         | -0.006         | 93 | 188217   | 3.60              |       |
| 7 Vinyl chloride              | 62  |           | 3.641         |                |    |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.695         |                |    |          | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |    |          | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |    |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.685         |                |    |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000          | 98 | 48301    | 0.3060            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000          | 80 | 8251     | 0.0742            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |    |          | ND                | U     |
| 22 Acetone                    | 43  | 5.845     | 5.856         | -0.011         | 99 | 1162043  | 27.9              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006         | 99 | 150403   | 1.19              |       |
| 24 Isopropyl alcohol          | 45  | 6.107     | 6.084         | 0.015          | 99 | 93536    | 2.03              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.306         |                |    |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.551     | 6.546         | -0.006         | 86 | 8178     | 0.1851            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.787     | 6.758         | 0.021          | 96 | 91921    | 1.31              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.969     | 6.937         | 0.032          | 58 | 5112     | 0.0537            |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.947         |                |    |          | ND                | U     |
| 33 Hexane                     | 57  | 7.284     | 7.290         | -0.006         | 91 | 48779    | 1.03              |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.723         |                |    |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.729         |                |    |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.788     | 8.820         | 0.000          | 99 | 37967    | 2.54              |       |
| * 40 Chlorobromomethane       | 128 | 9.146     | 9.157         | -0.011         | 75 | 535439   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.205         |                |    |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.269     | 9.264         | 0.000          | 90 | 9513     | 0.0851            |       |
| 43 Cyclohexane                | 84  | 9.526     | 9.526         | -0.005         | 96 | 25500    | 0.5163            |       |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |    |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.783     | 9.767         | 0.000          | 72 | 10109    | 0.0791            |       |
| 46 Isooctane                  | 57  | 10.189    | 10.195        | -0.011         | 87 | 50657    | 0.3101            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.211        | -0.005        | 95 | 55162    | 0.4814            |       |
| 48 1,2-Dichloroethane          | 62  |           | 10.382        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  | 10.558    | 10.537        | -0.011        | 92 | 97420    | 1.65              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019        | -0.006        | 93 | 2151718  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.484        |               |    |          | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.019        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.201        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  | 12.313    | 12.275        | 0.032         | 68 | 3842     | 0.1824            |       |
| 58 Dichlorobromomethane        | 83  |           | 12.554        |               |    |          | ND                | U     |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.474        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790        |               |    |          | ND                | U     |
| 65 Toluene                     | 92  | 14.057    | 14.063        | -0.006        | 94 | 188368   | 2.19              |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.656        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.026        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.132    | 15.143        | -0.006        | 94 | 32739    | 0.3172            |       |
| 69 2-Hexanone                  | 43  | 15.523    | 15.523        | 0.016         | 35 | 59031    | 0.7792            | Ma    |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.042        |               |    |          | ND                | U     |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957        | -0.006        | 84 | 2127975  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.176    | 17.176        | -0.005        | 95 | 54134    | 0.2789            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.433    | 17.438        | -0.005        | 0  | 76211    | 0.9686            |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.289        | 0.006         | 97 | 30665    | 0.4101            | M     |
| 80 Styrene                     | 104 | 18.342    | 18.342        | 0.000         | 39 | 8709     | 0.0761            | M     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                | U     |
| 82 Isopropylbenzene            | 105 |           | 19.043        |               |    |          | ND                | U     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851        | 0.011         | 95 | 18141    | 0.0697            | M     |
| 89 2-Chlorotoluene             | 91  |           | 20.049        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.065        | 0.000         | 52 | 15052    | 0.0679            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.172        | 0.000         | 92 | 17765    | 0.0937            |       |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.798    | 20.798        | 0.000         | 94 | 53636    | 0.2867            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 | 21.258    | 21.263        | -0.005        | 53 | 11244    | 0.0499            |       |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.269        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.413        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.846        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.948        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.527        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 | 24.767    | 24.783        | -0.006        | 26 | 6673     | 0.0329            |       |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Worklist Smp#: 12

Client ID: MP-4\_20181120

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

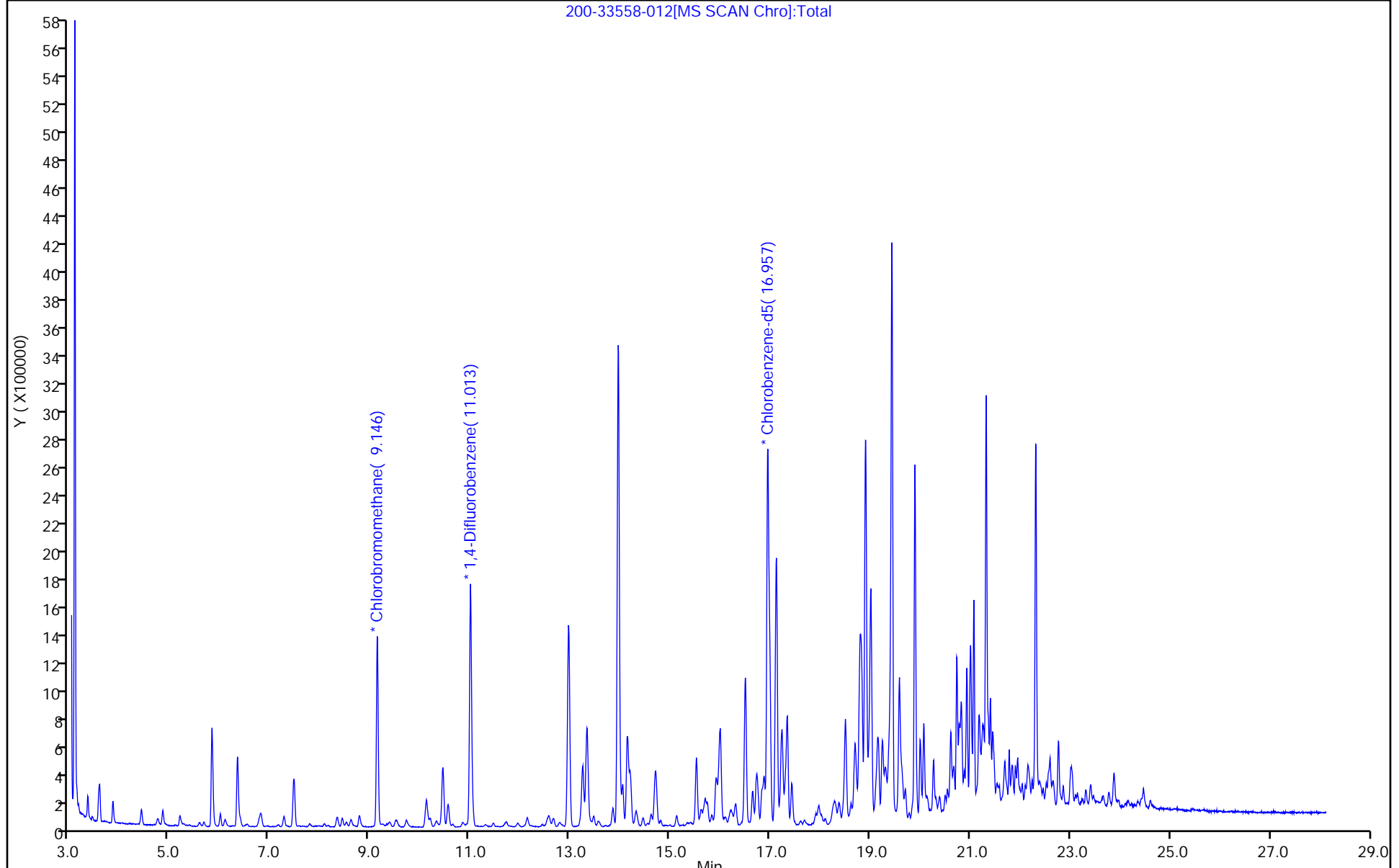
ALS Bottle#: 12

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

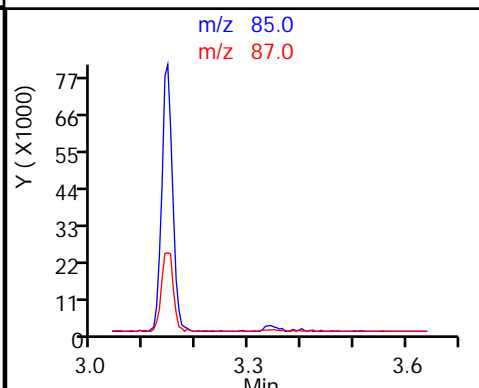
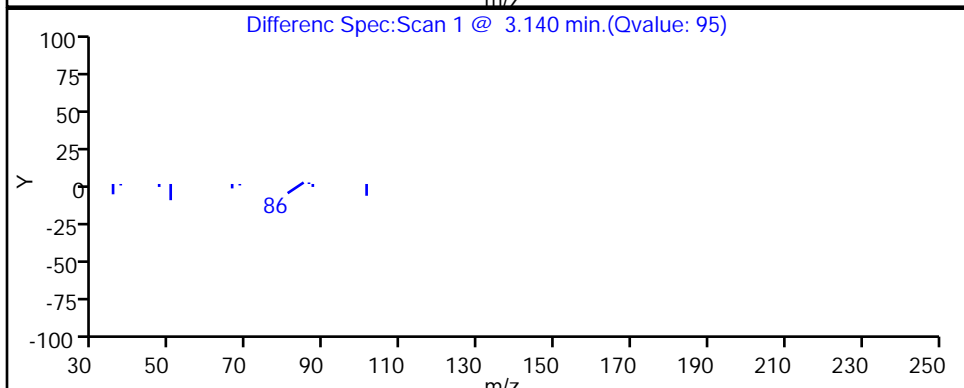
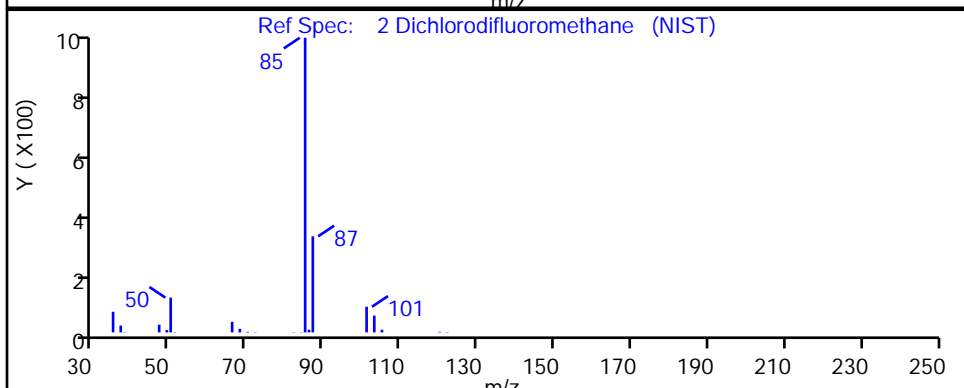
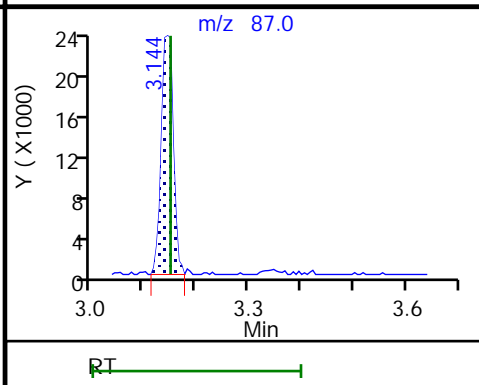
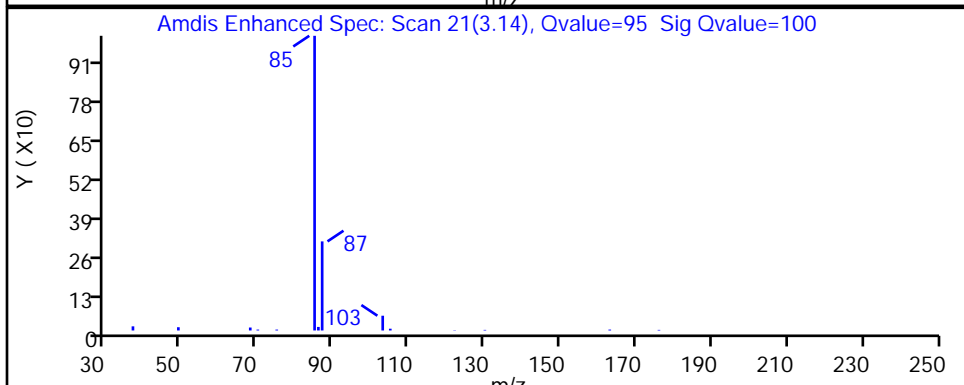
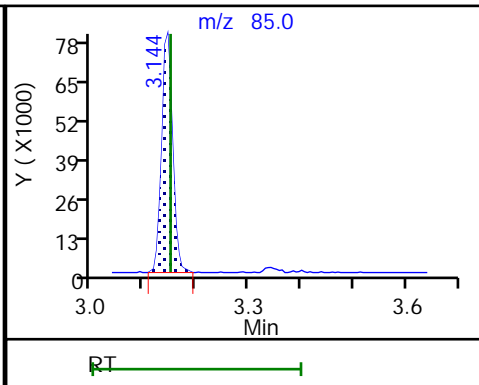
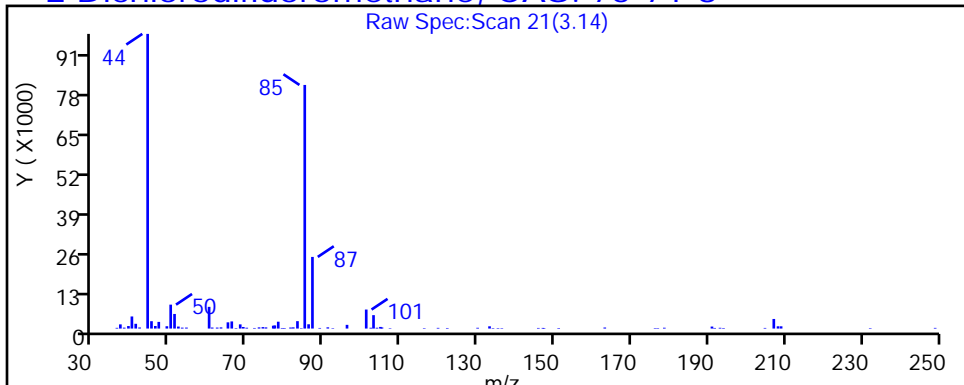
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

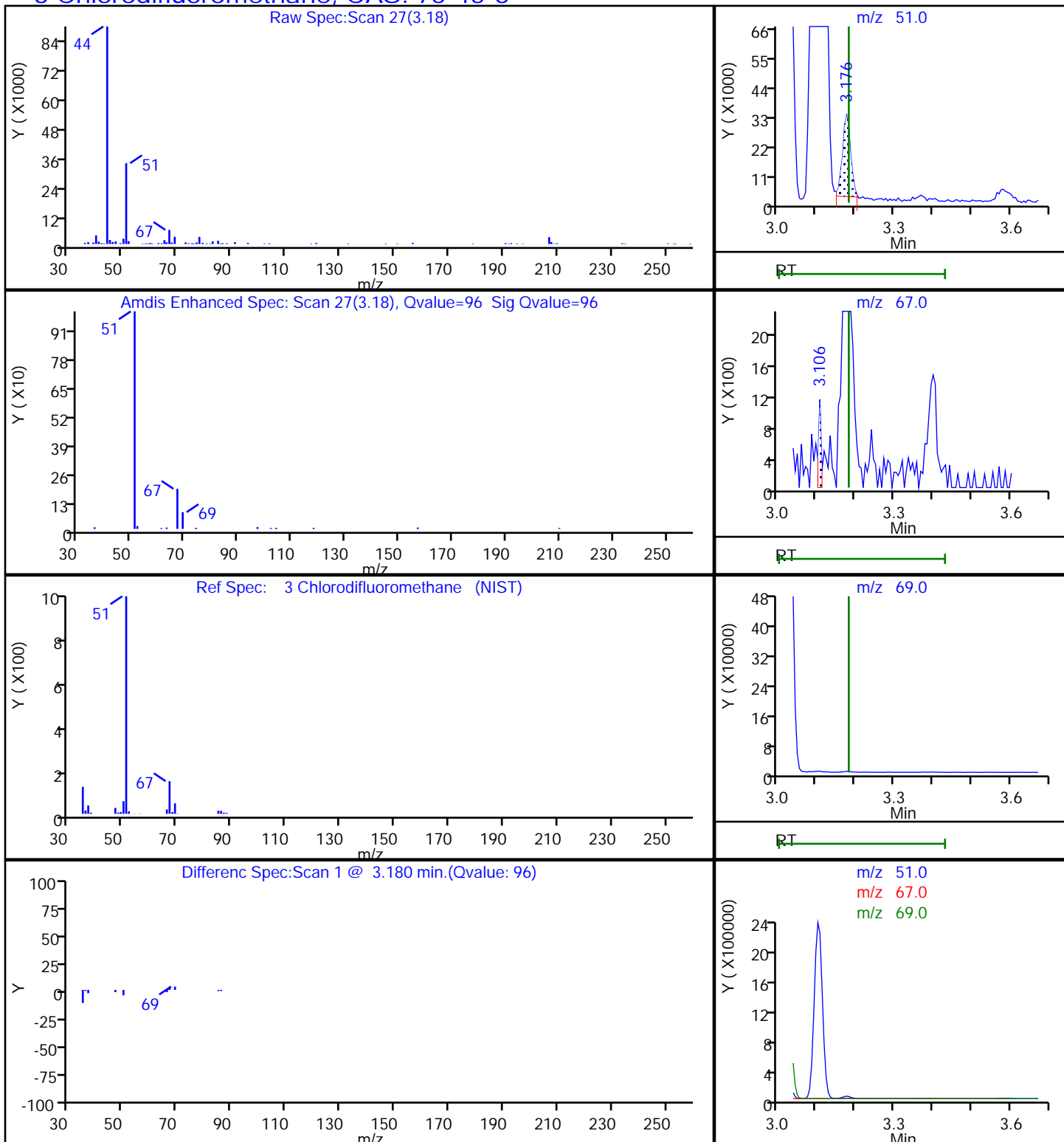
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

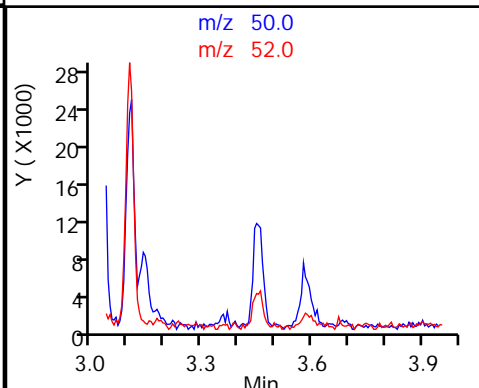
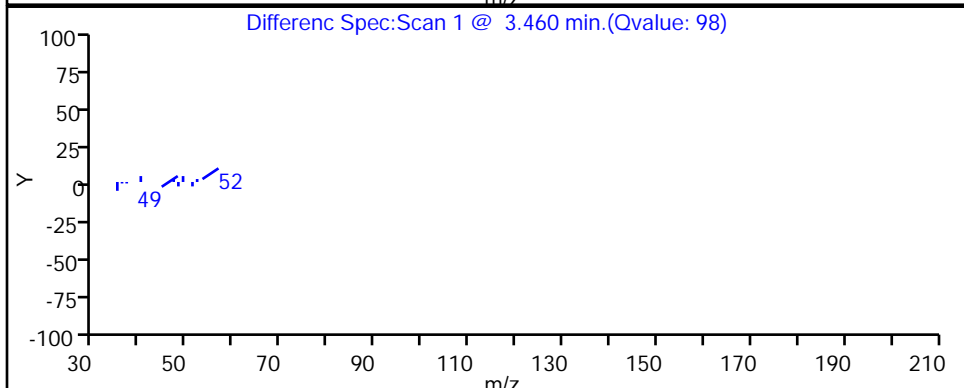
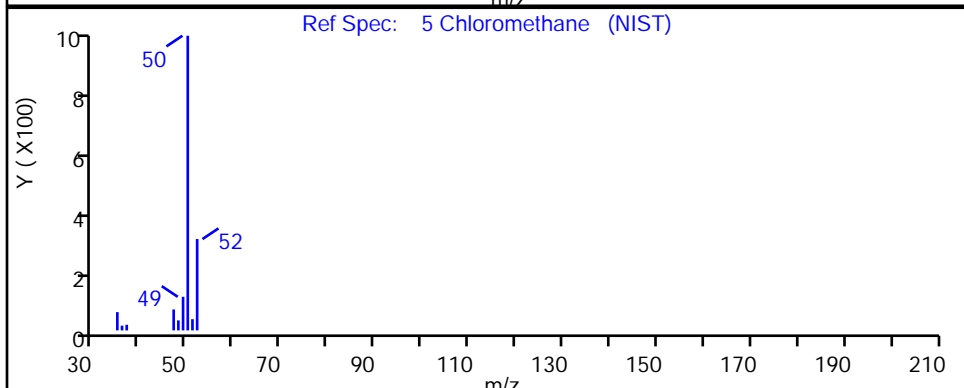
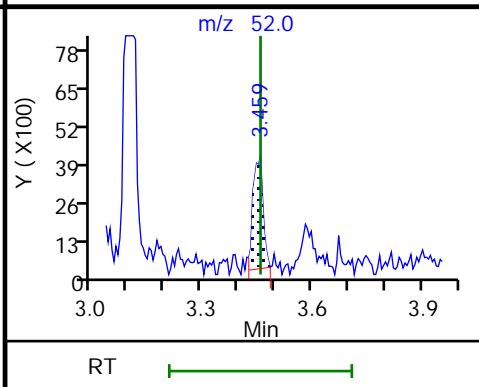
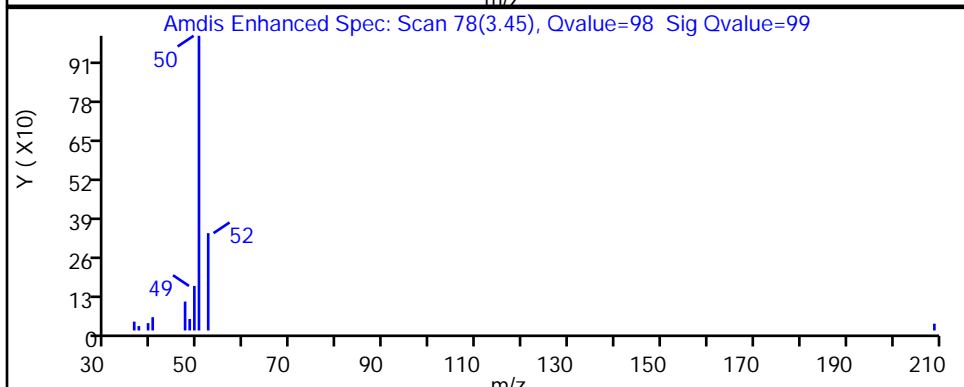
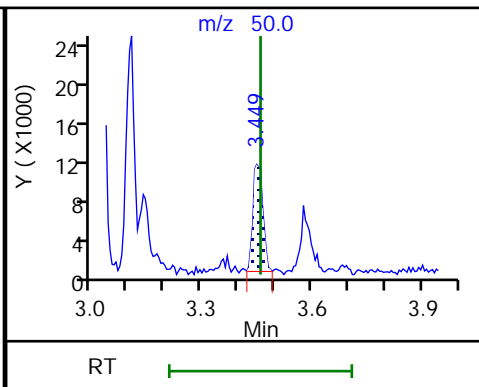
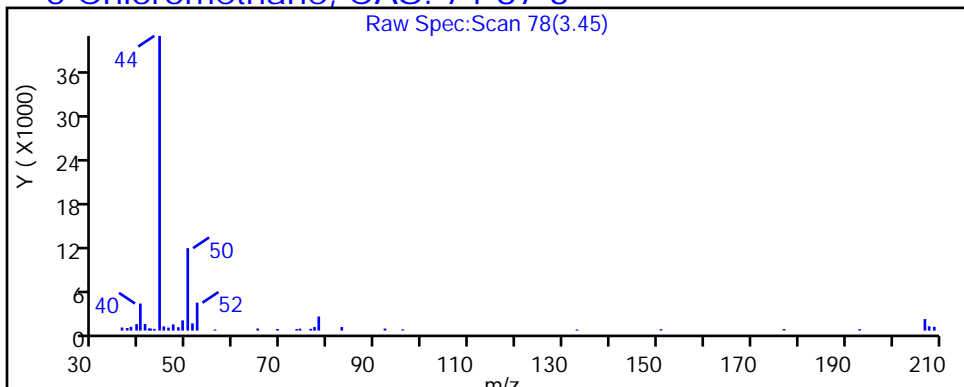
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

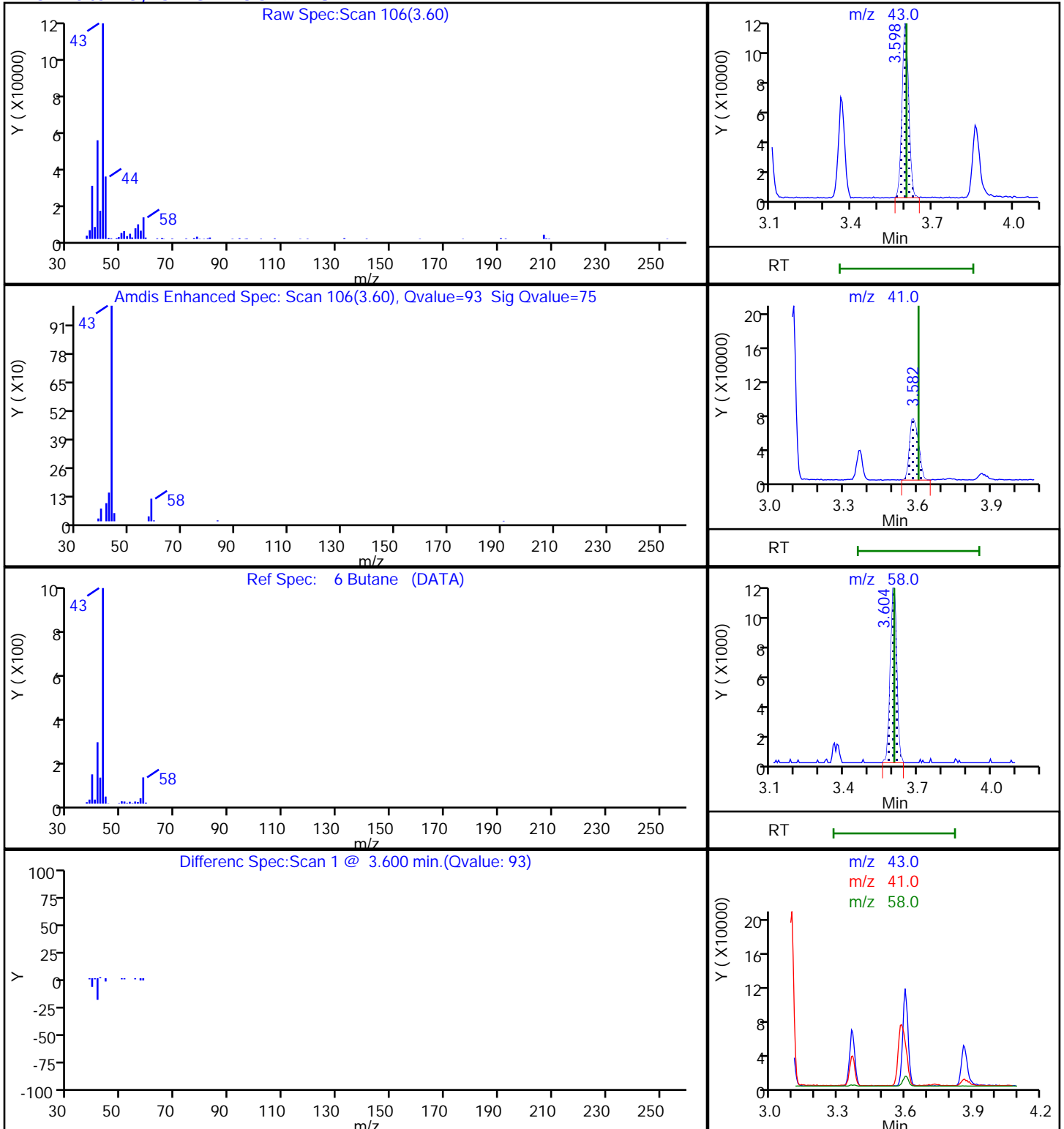
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

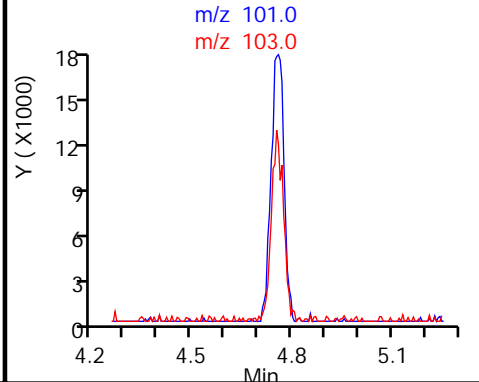
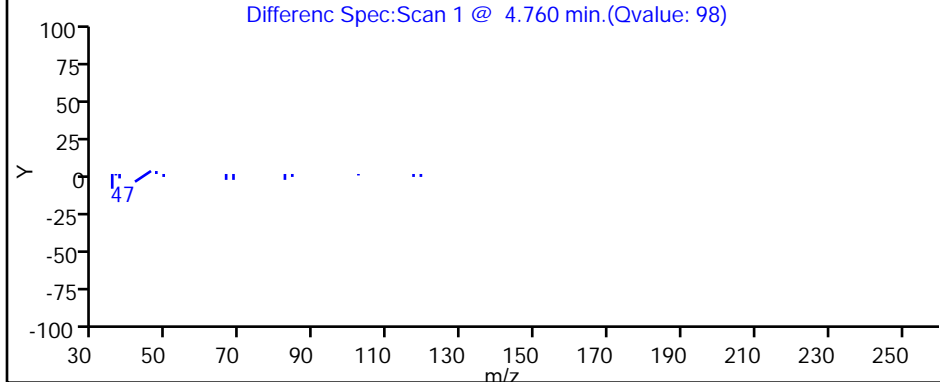
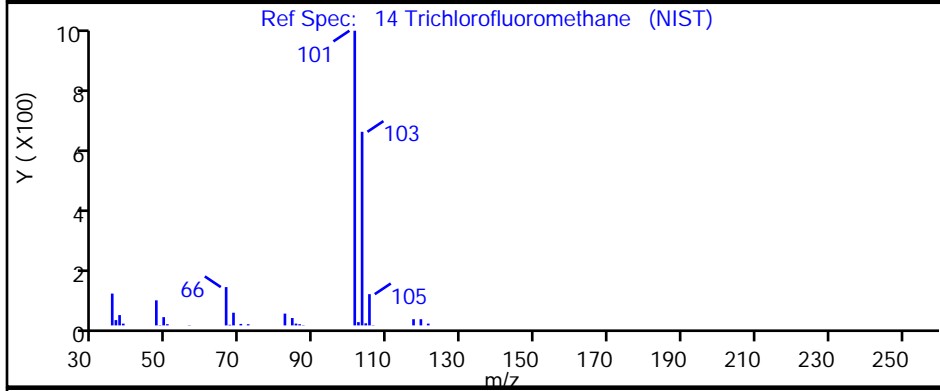
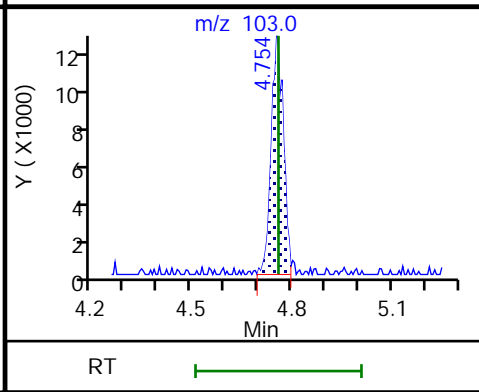
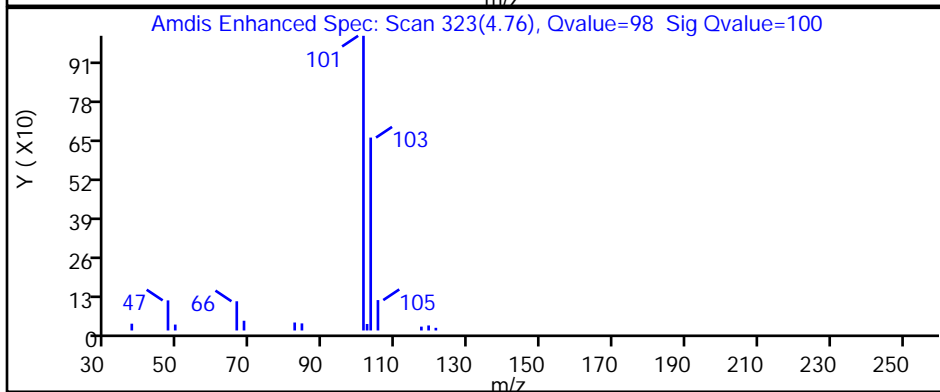
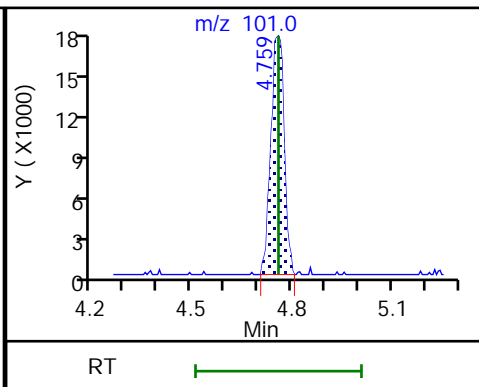
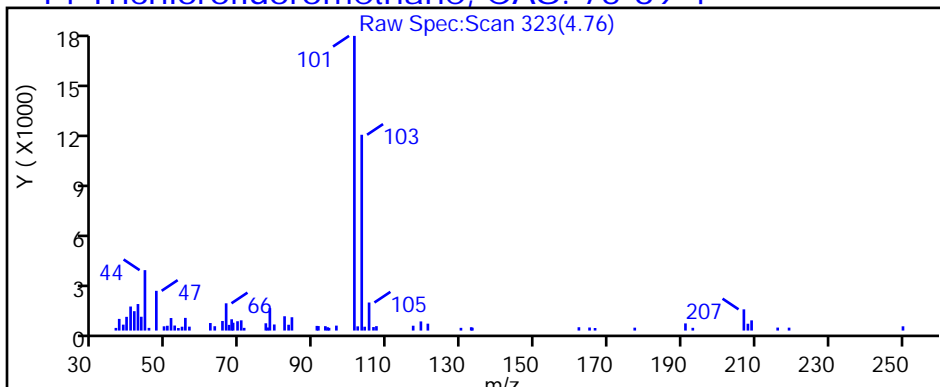
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

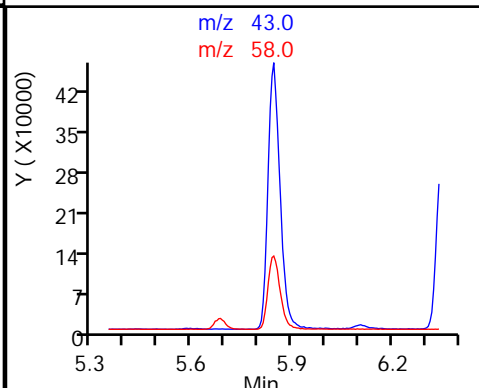
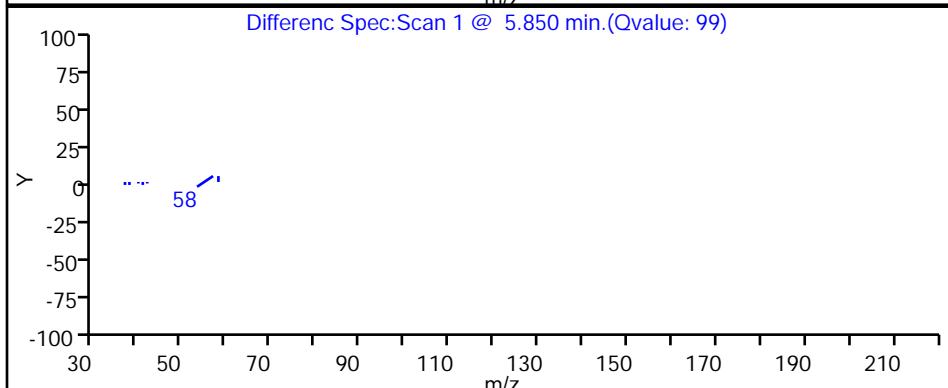
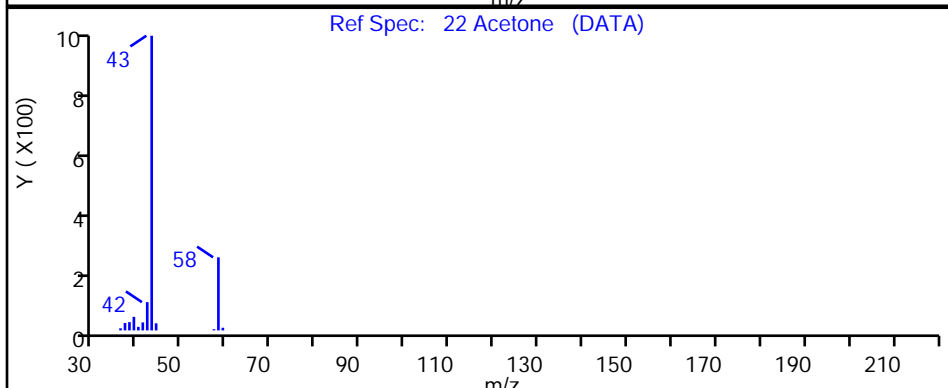
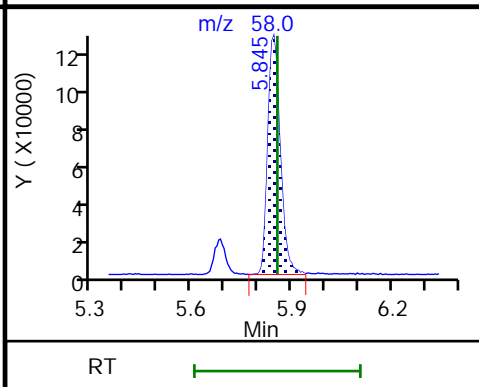
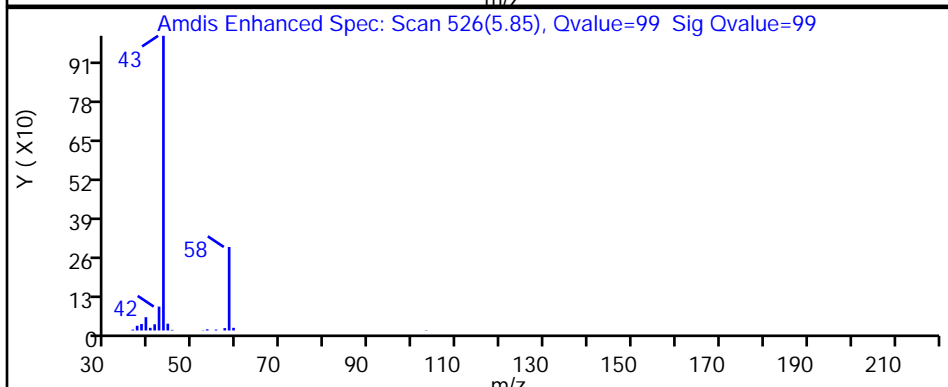
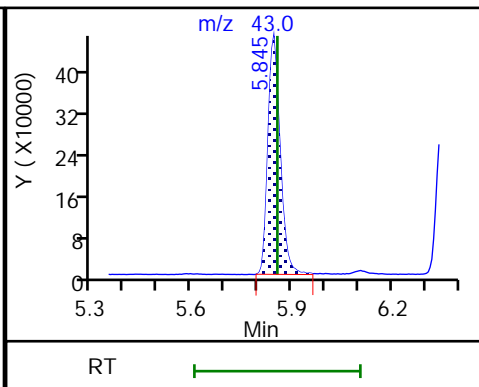
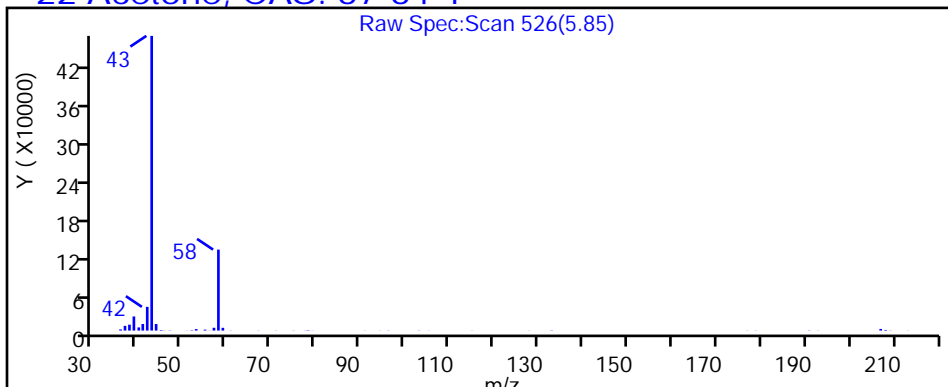
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

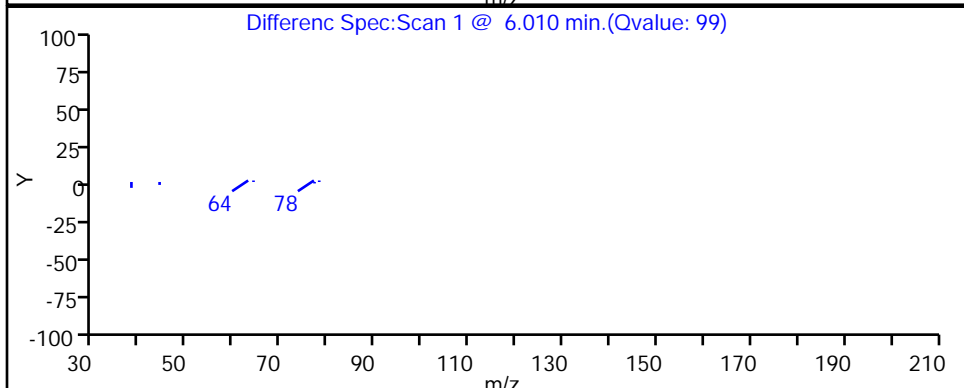
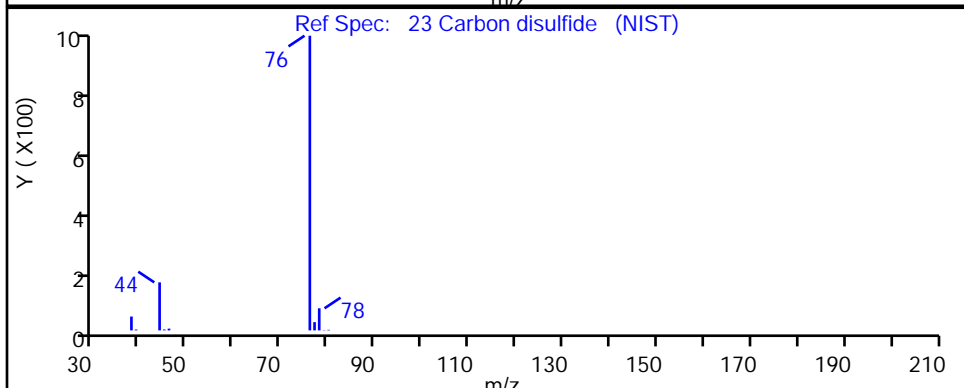
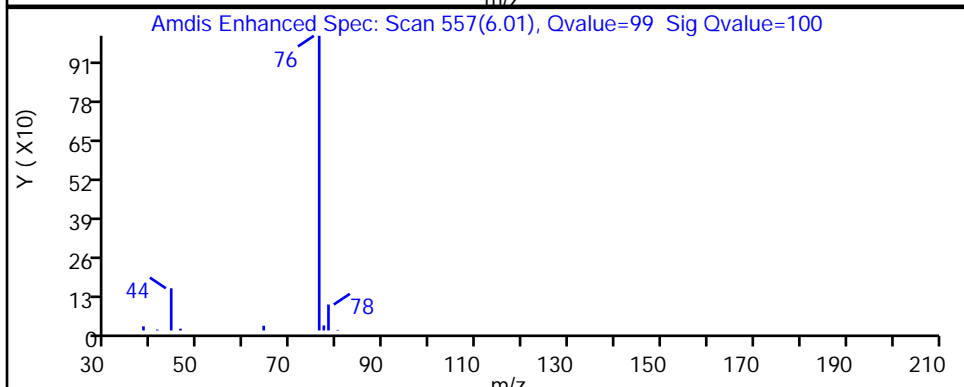
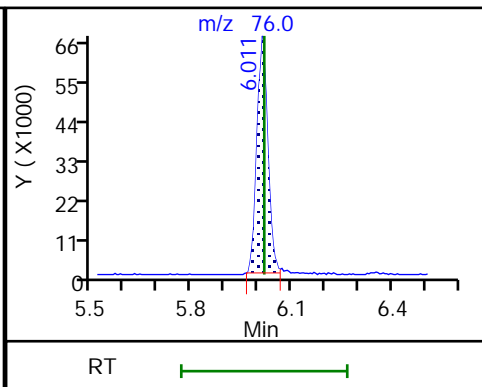
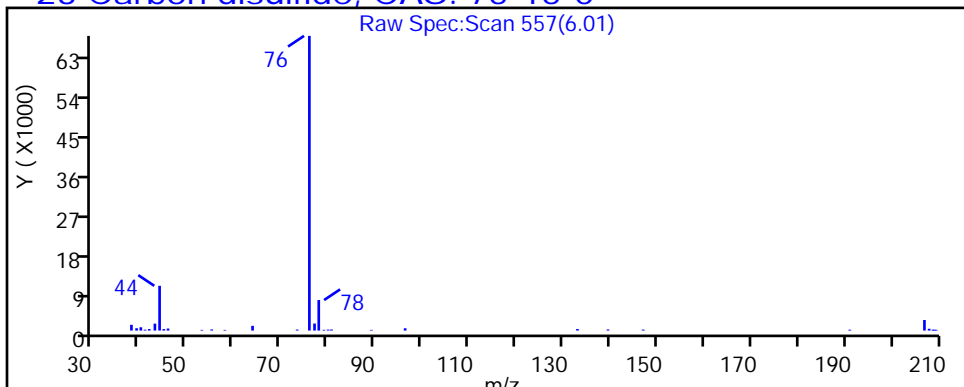
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

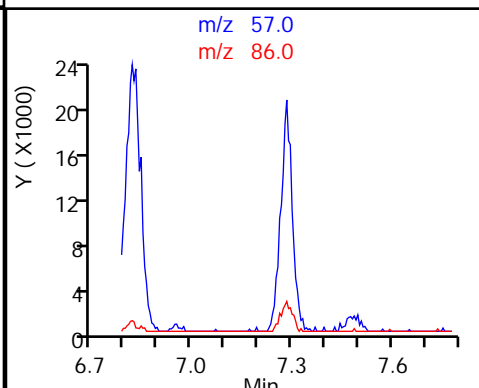
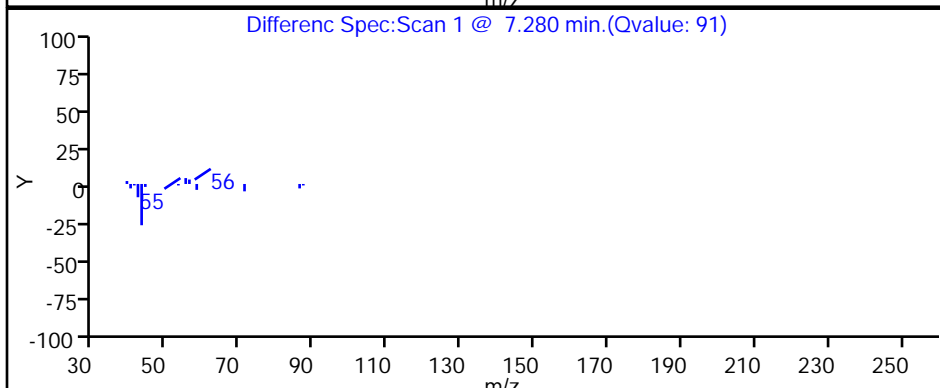
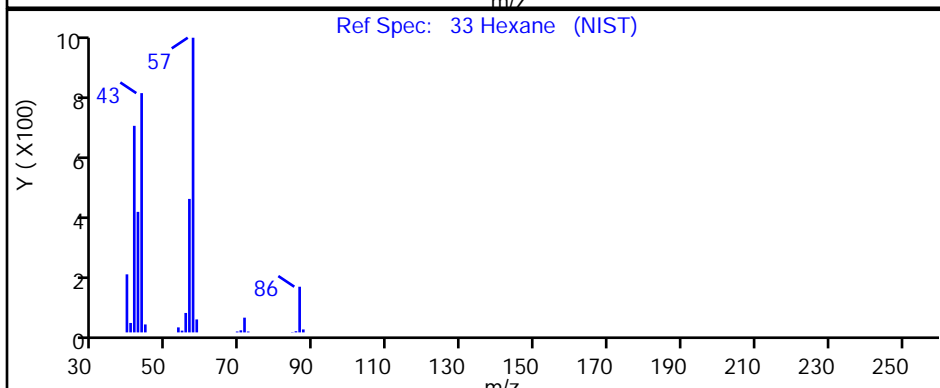
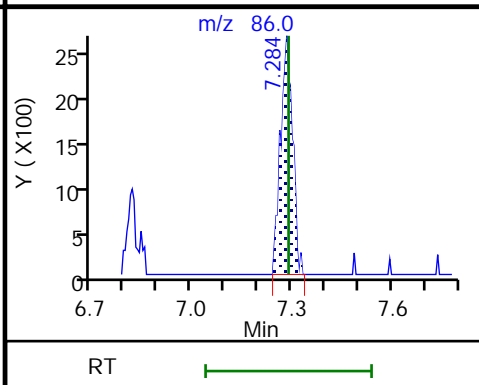
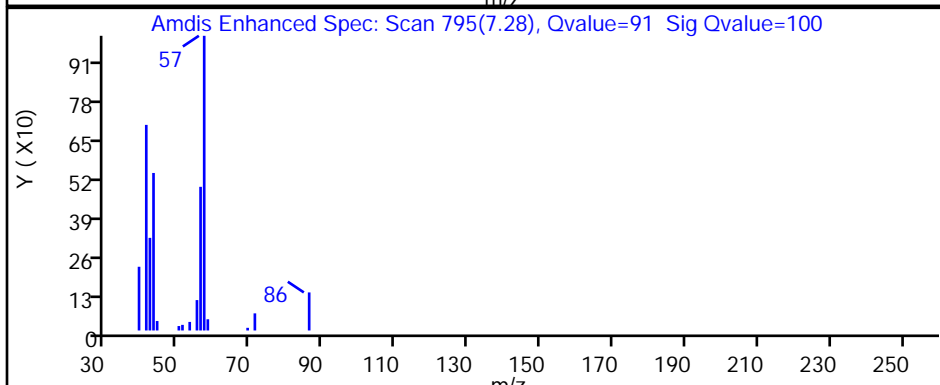
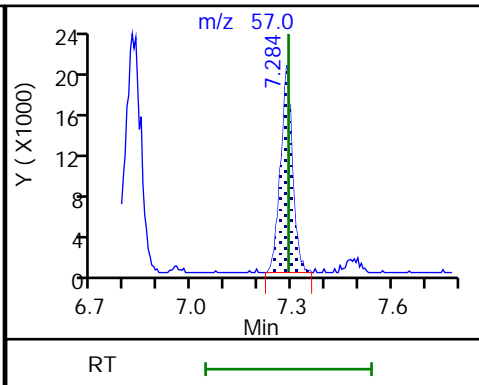
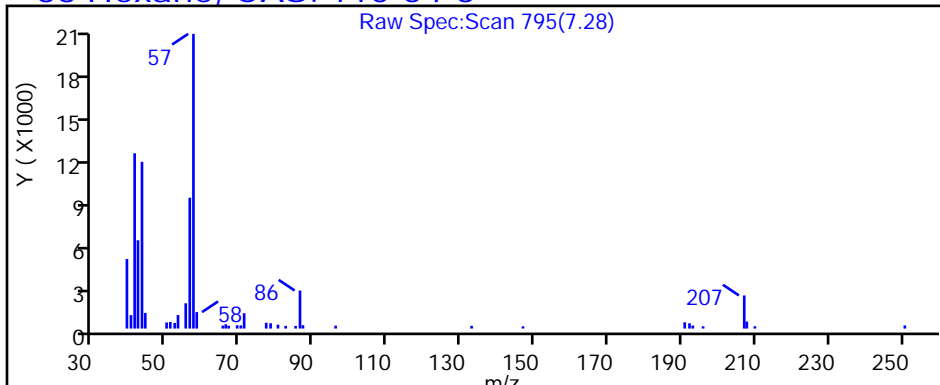
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

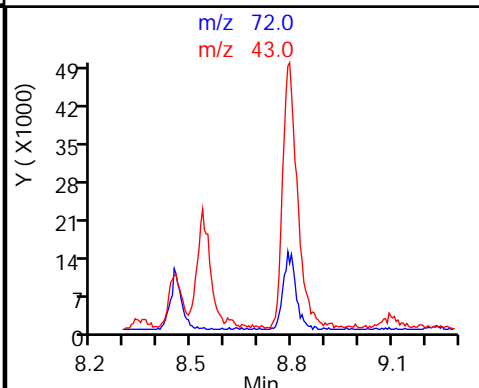
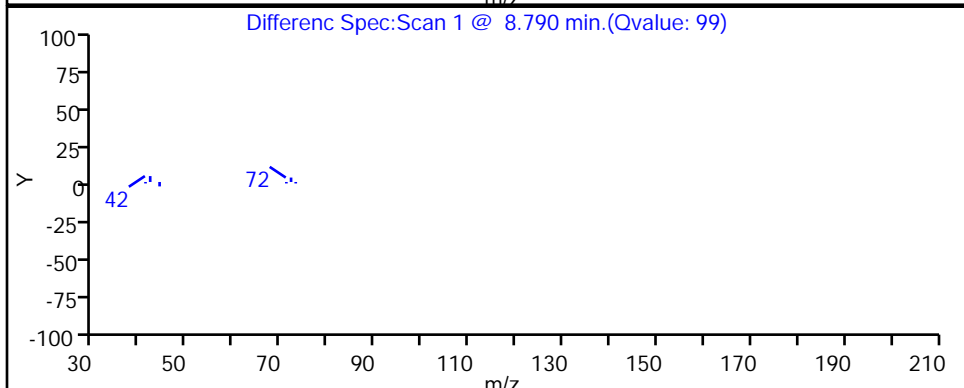
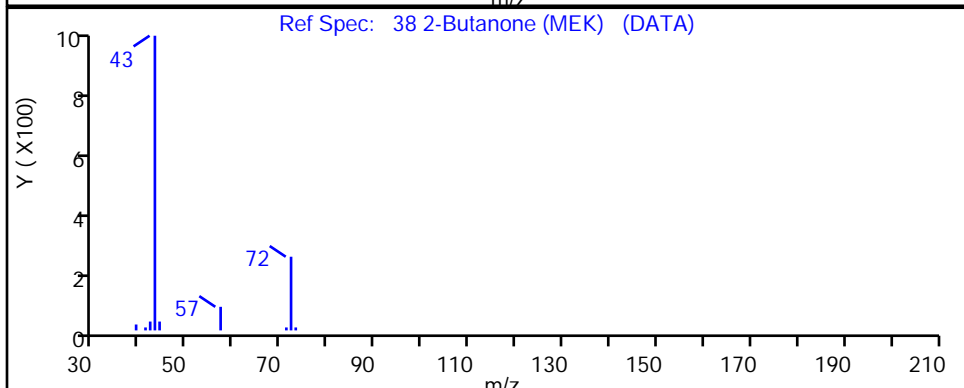
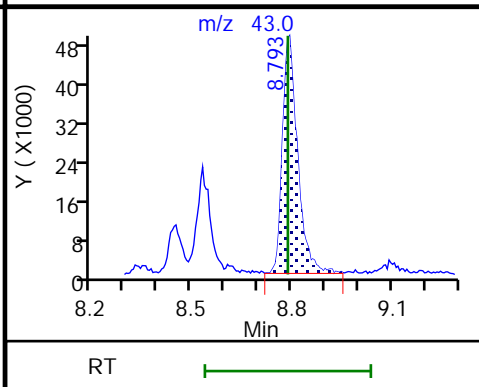
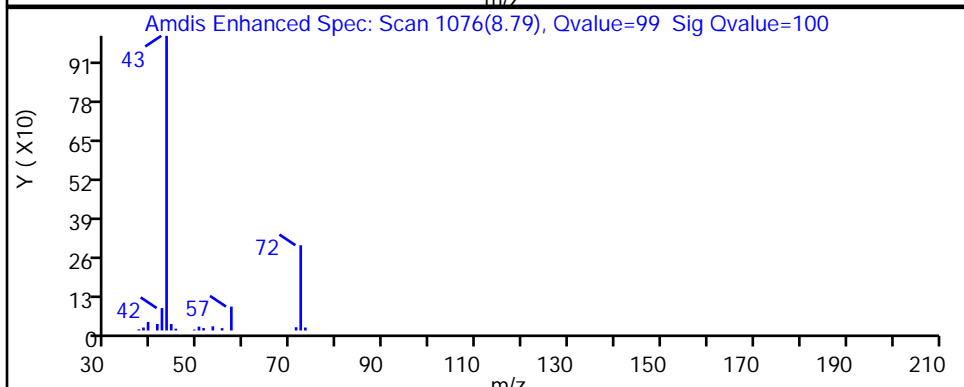
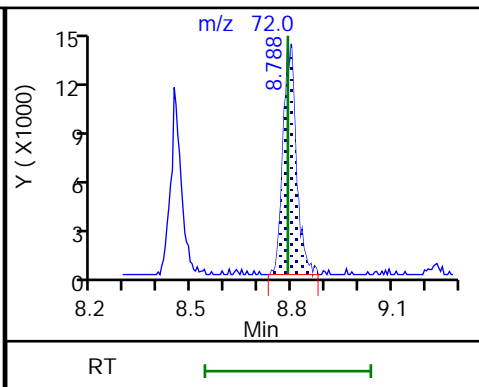
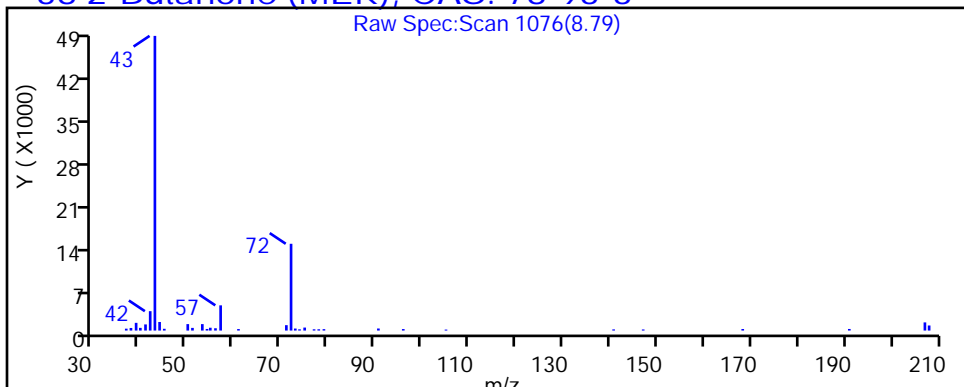
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

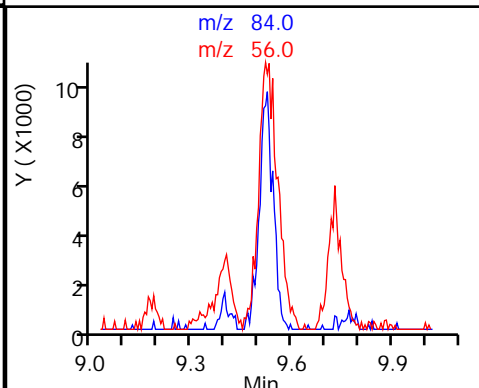
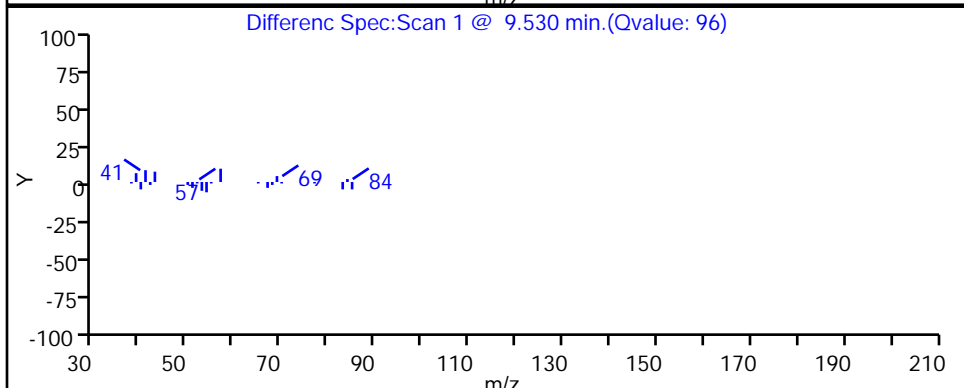
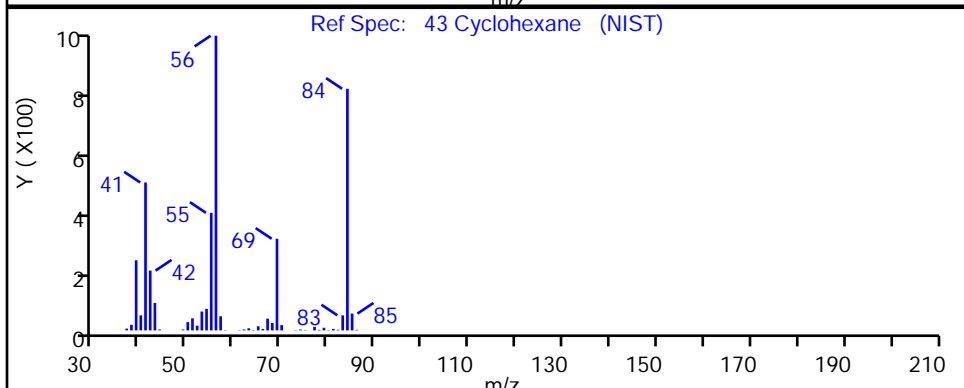
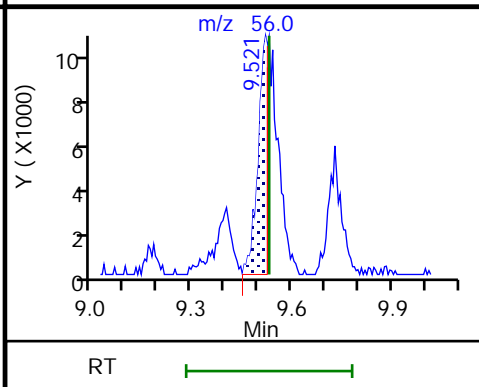
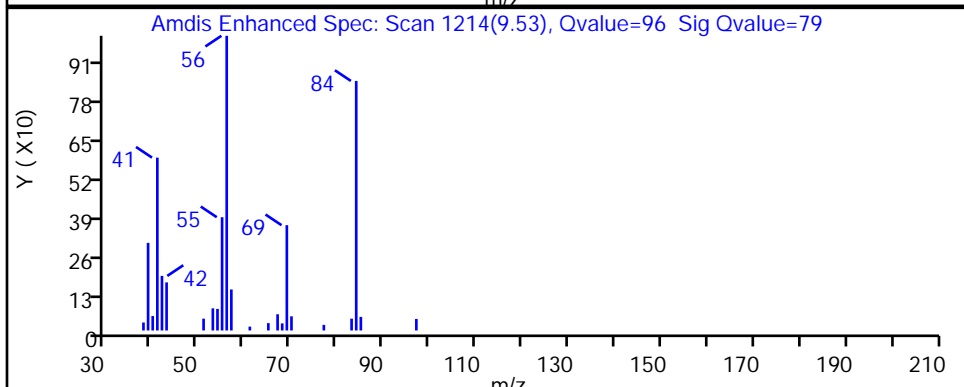
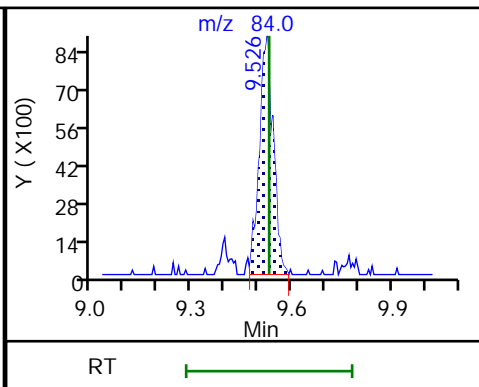
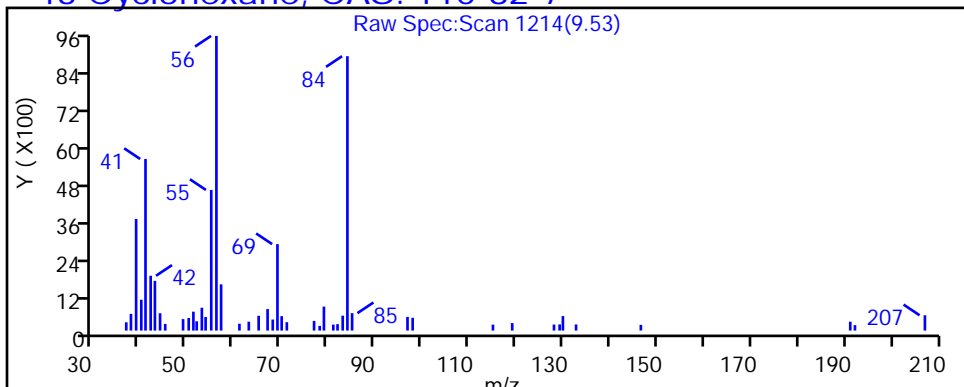
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

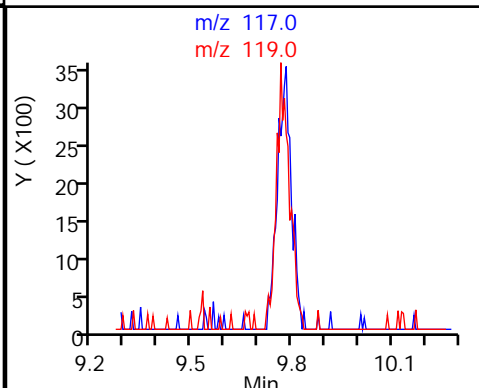
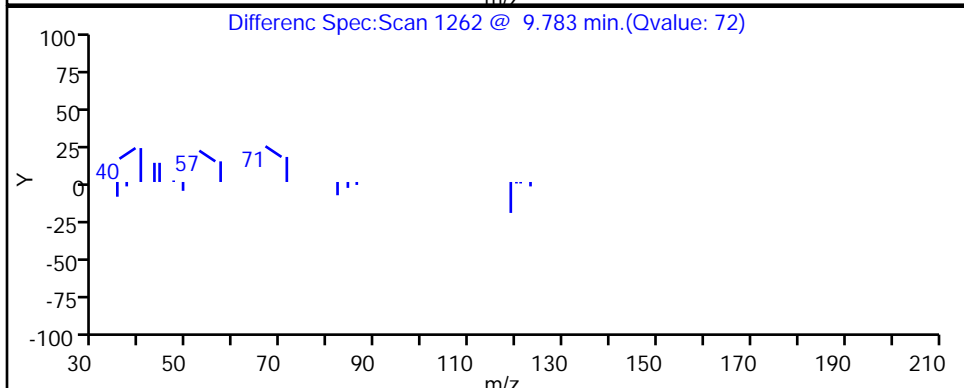
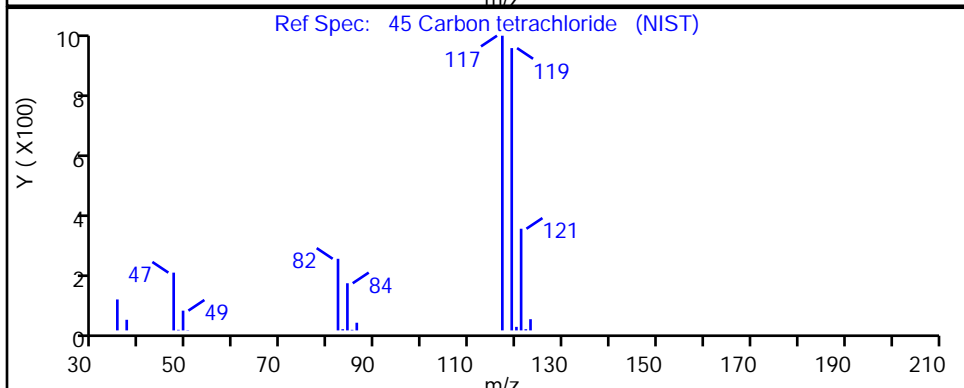
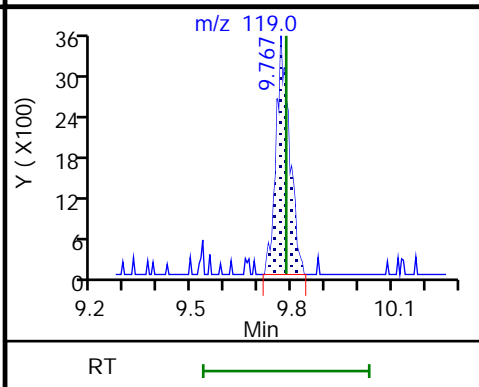
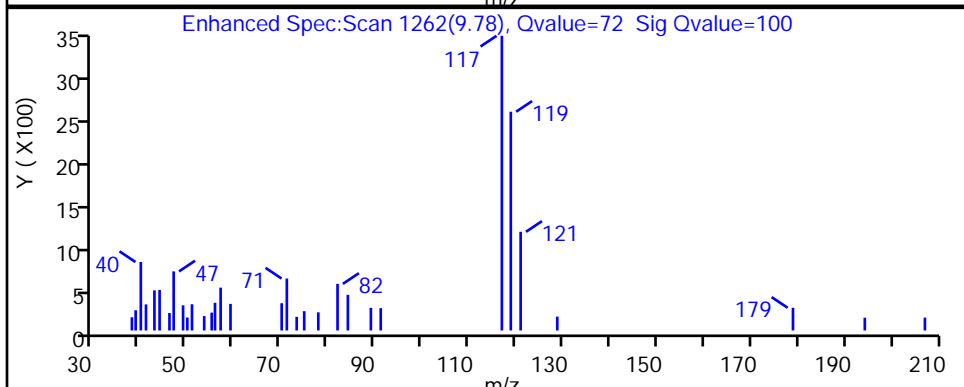
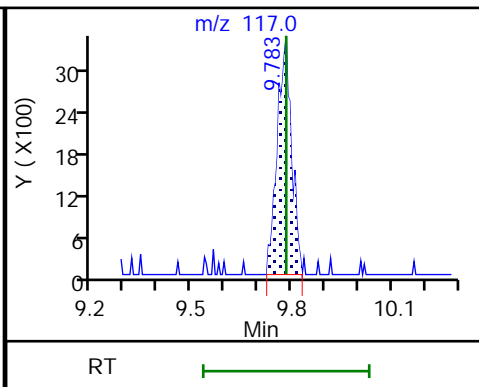
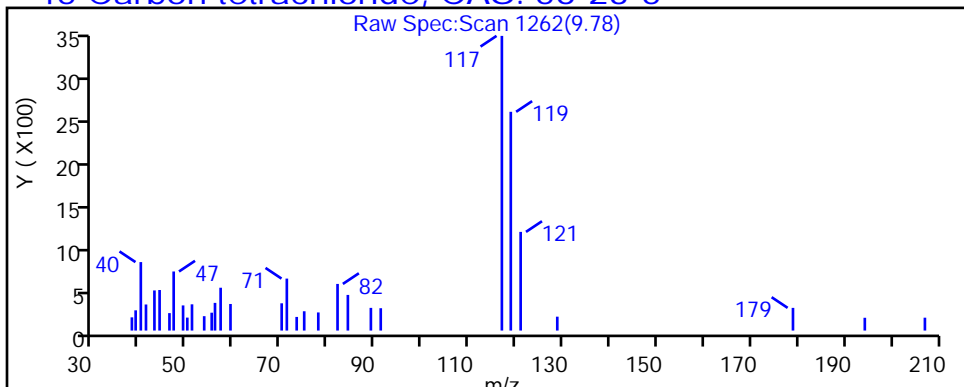
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

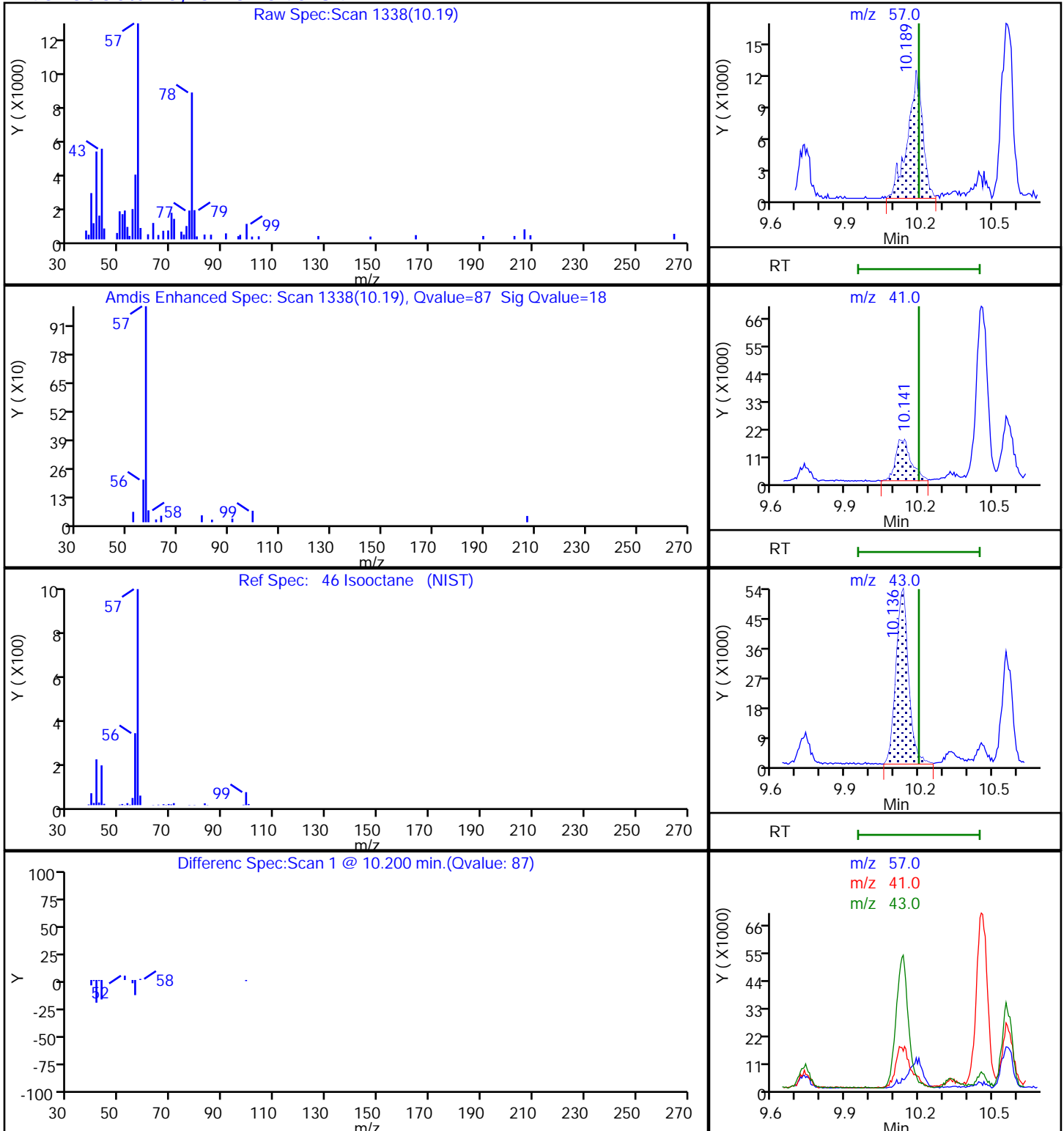
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

46 Isooctane, CAS: 540-84-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

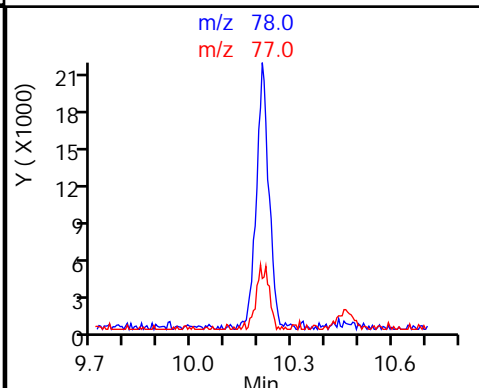
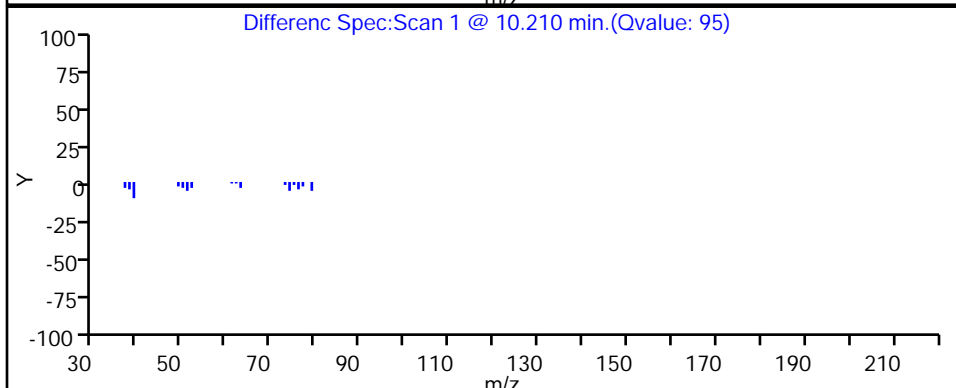
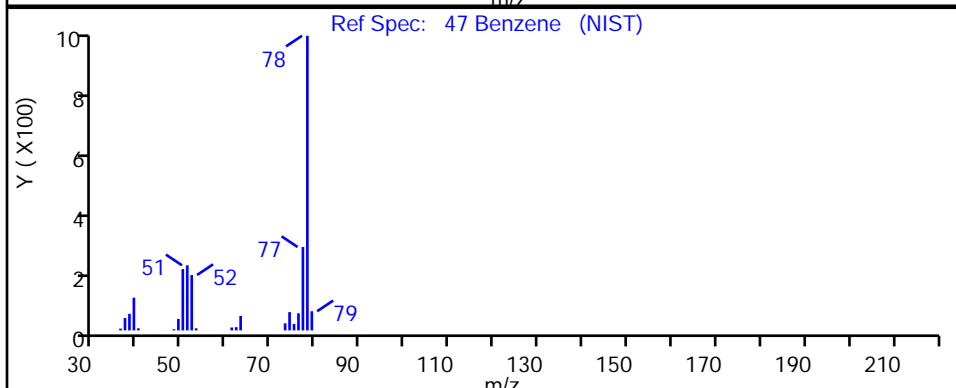
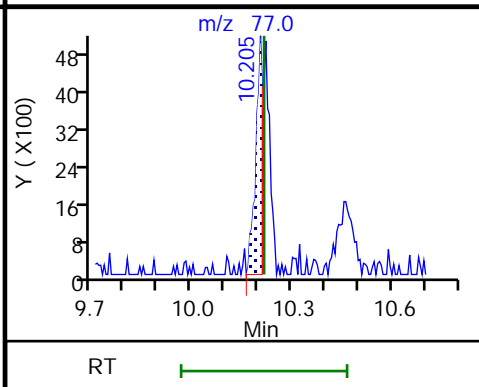
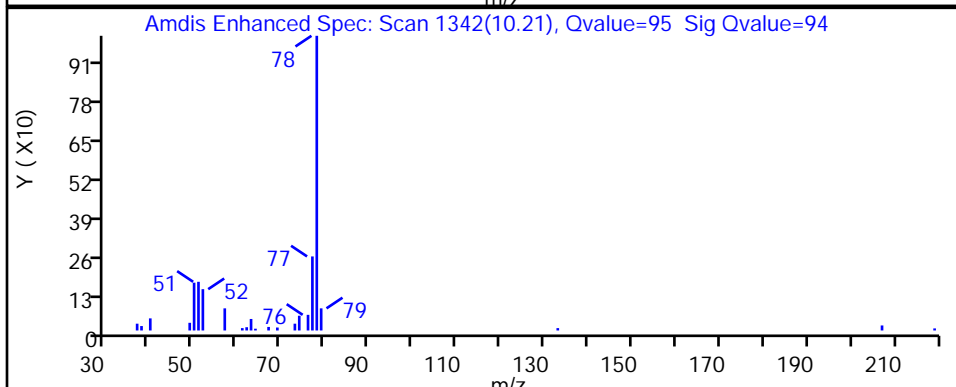
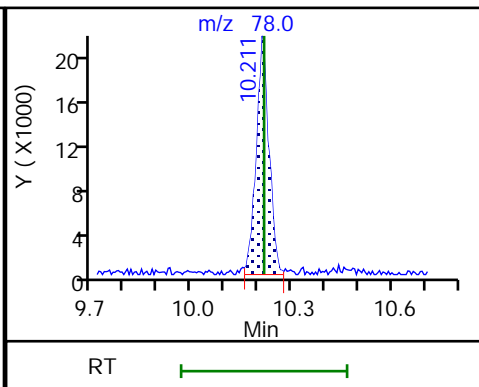
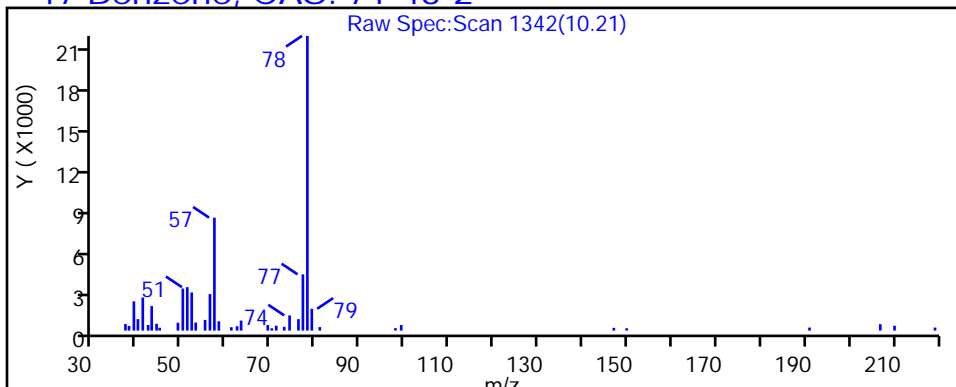
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

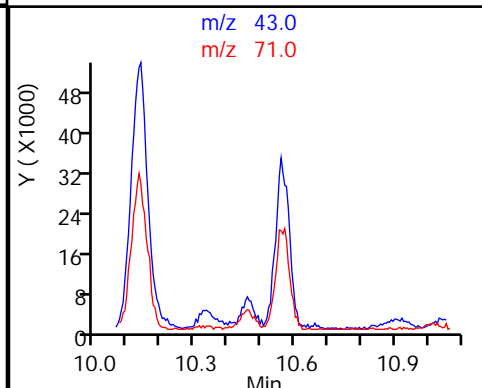
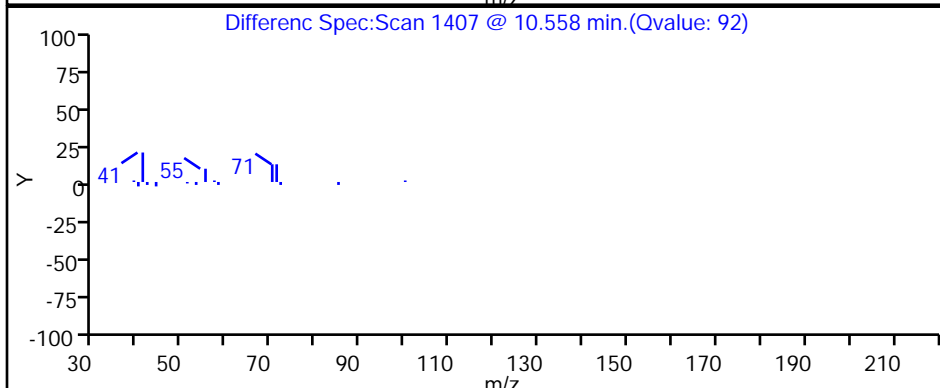
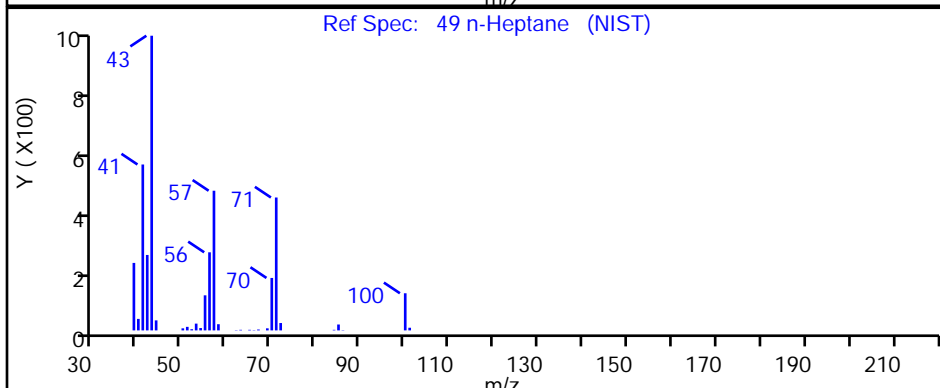
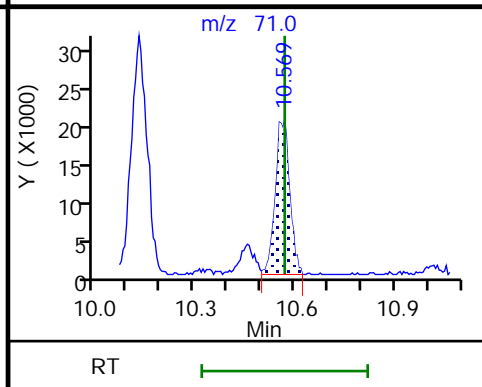
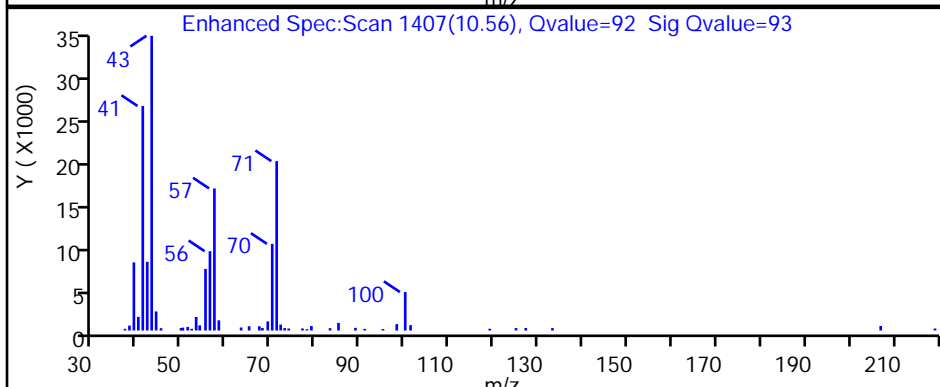
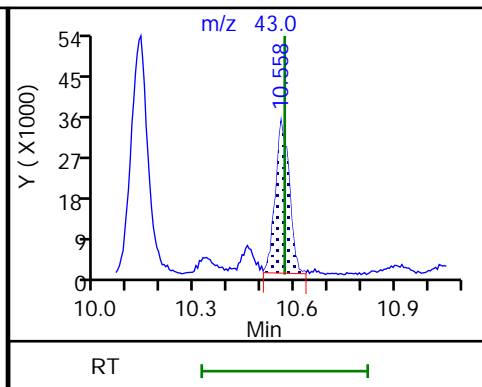
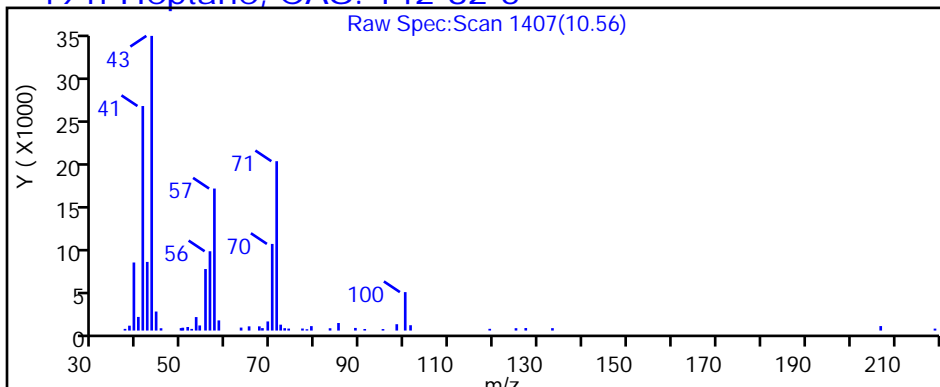
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

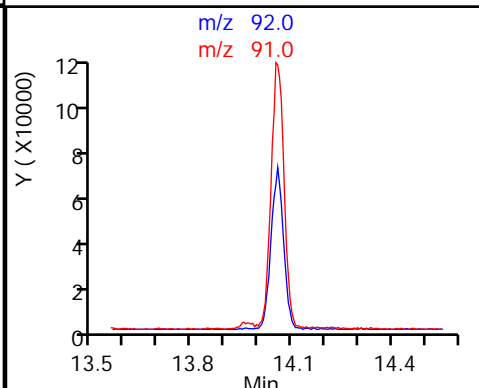
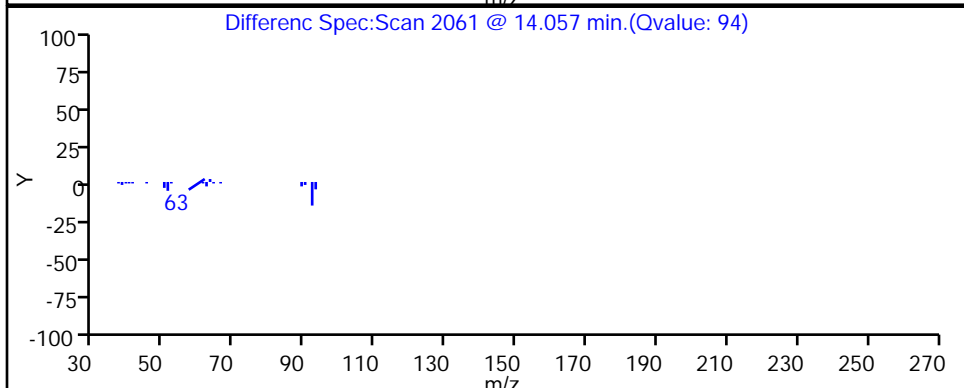
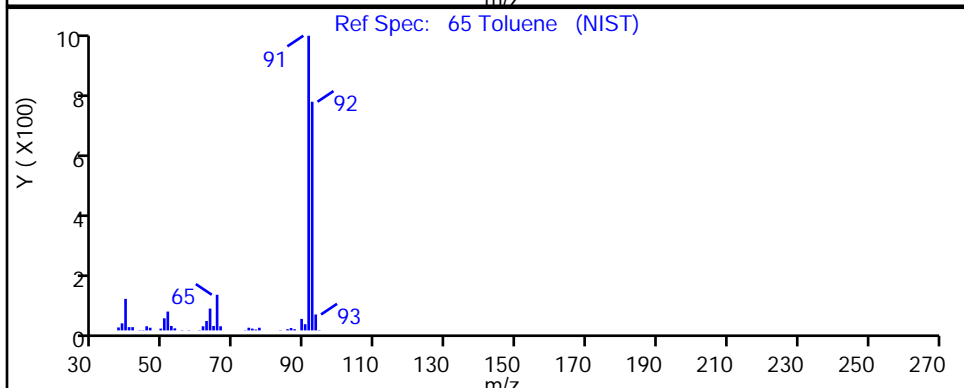
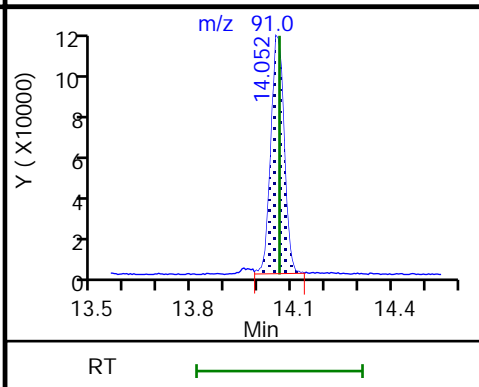
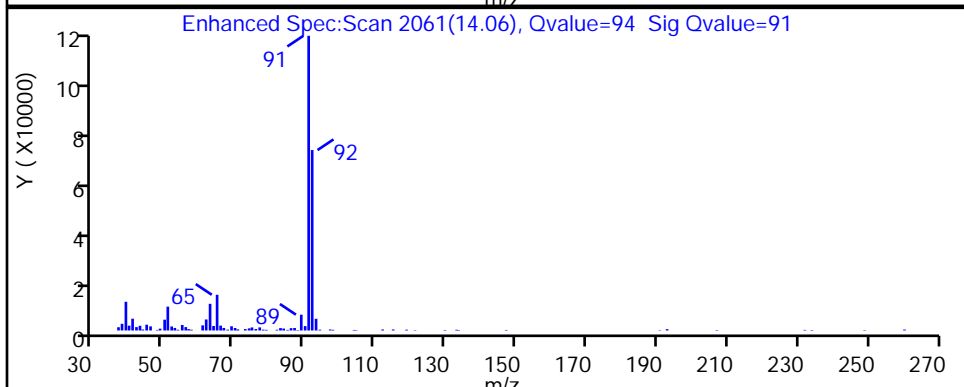
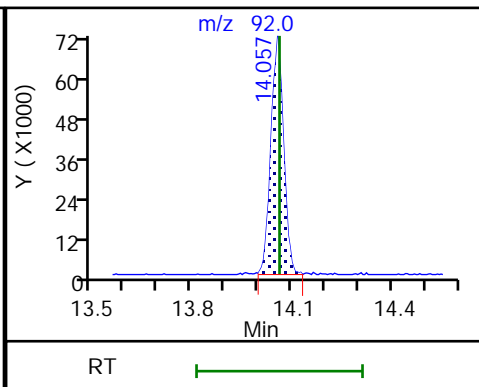
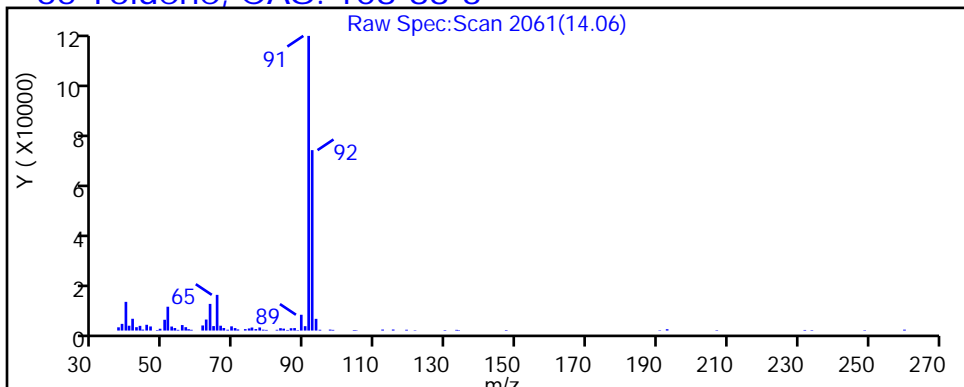
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

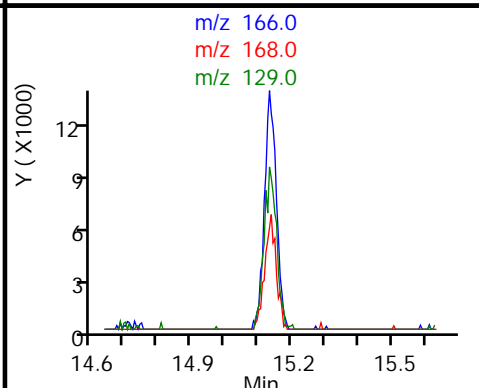
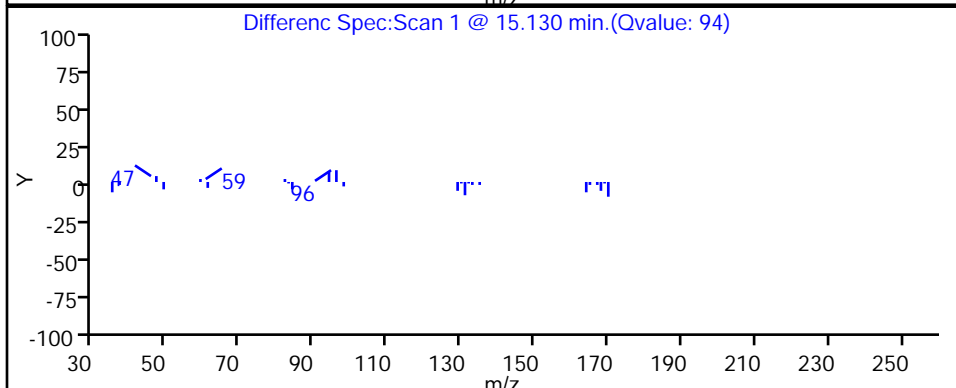
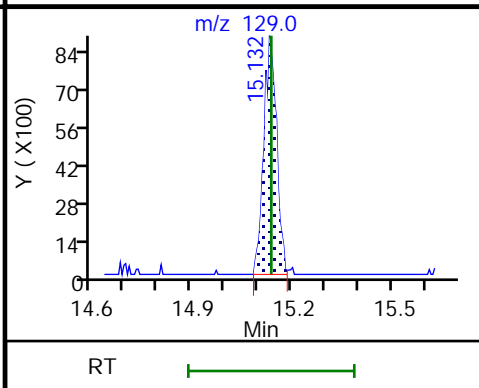
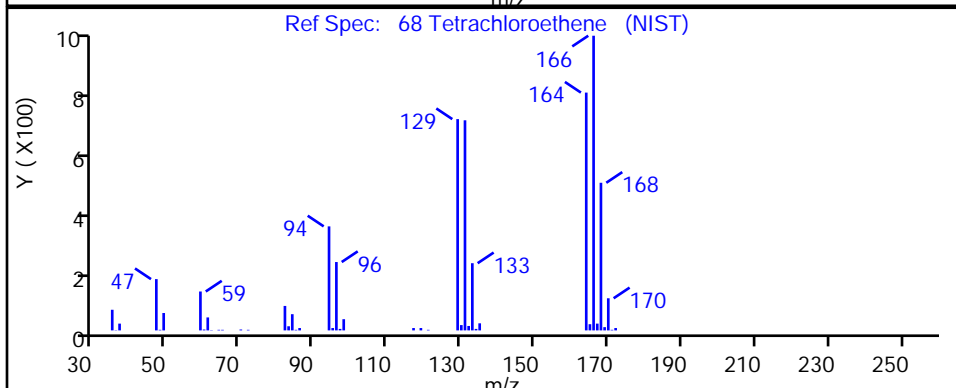
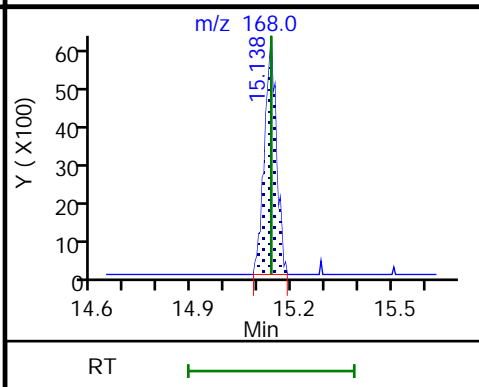
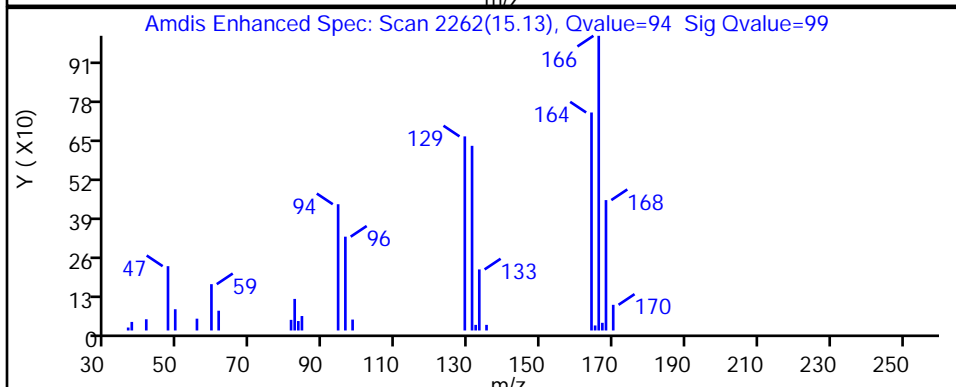
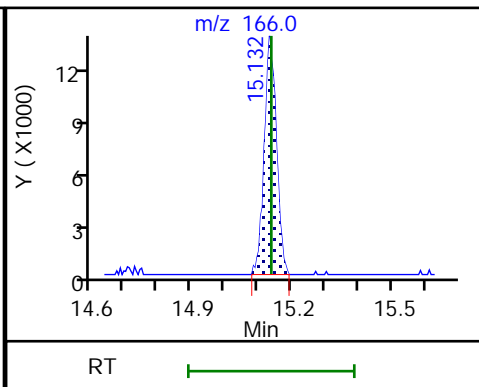
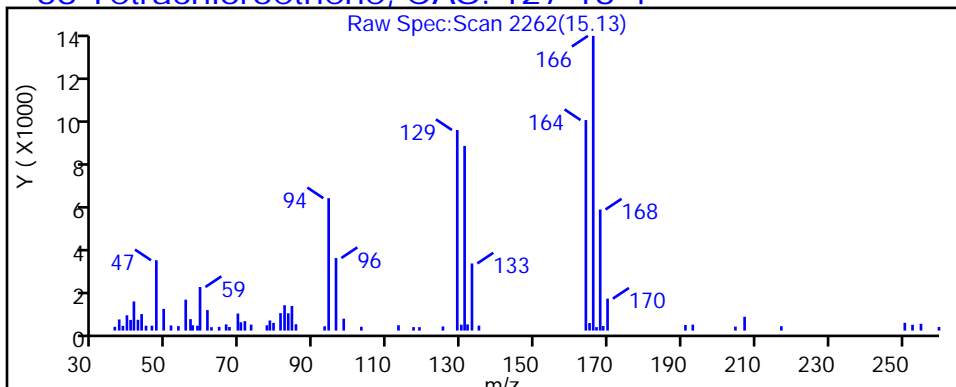
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

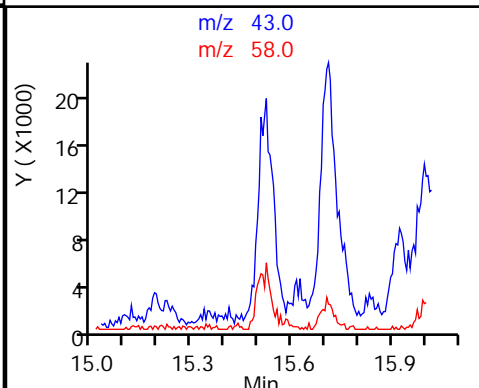
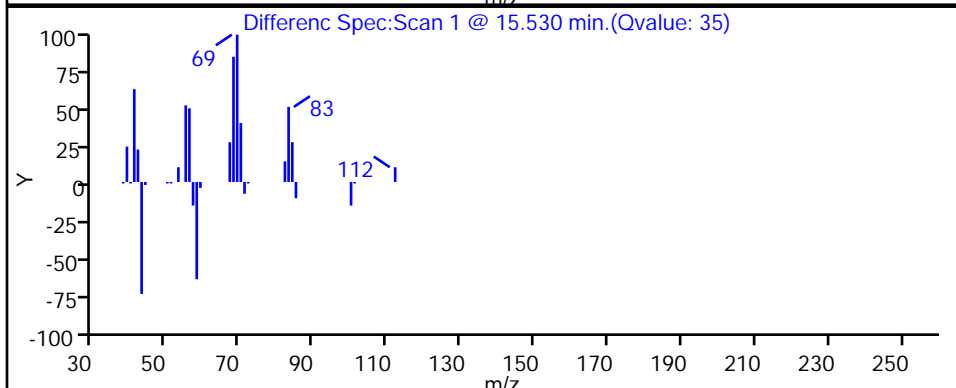
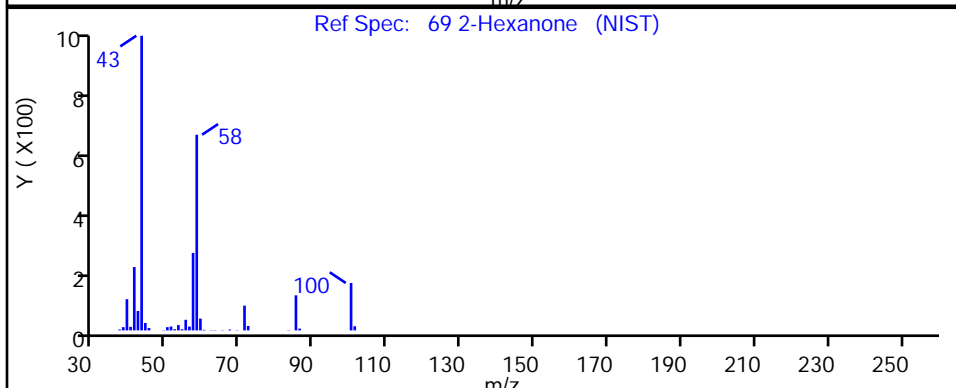
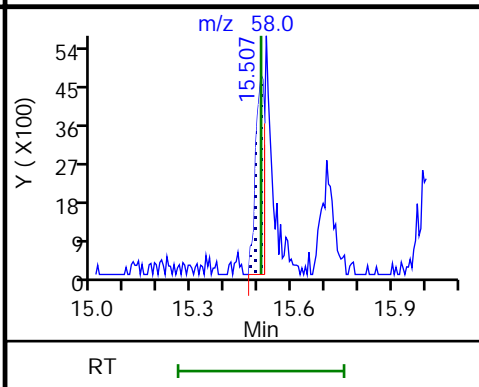
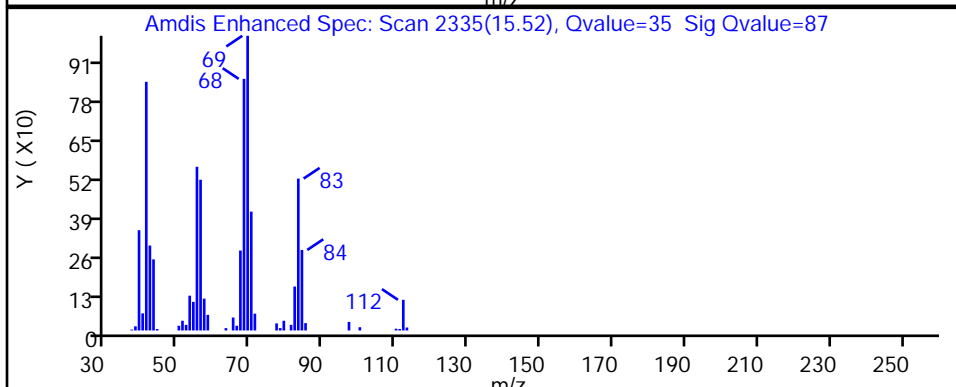
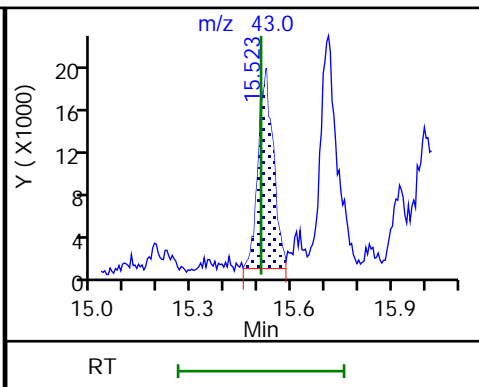
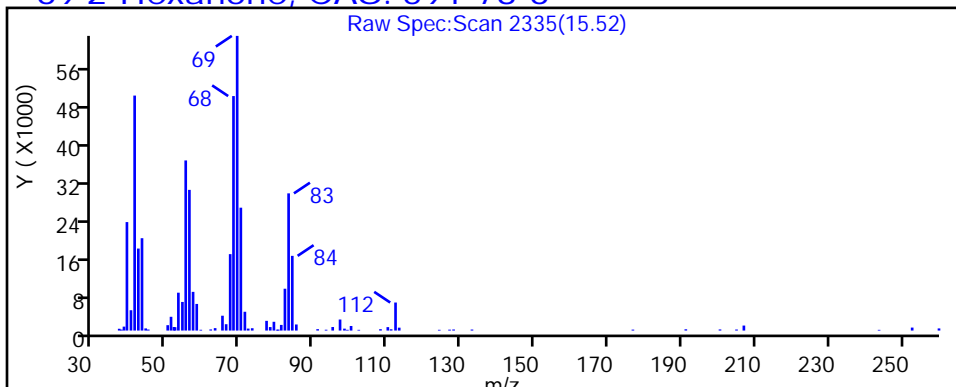
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

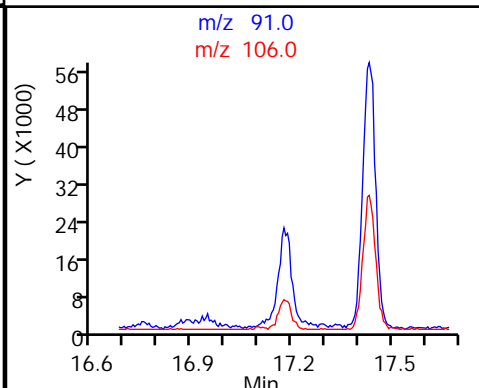
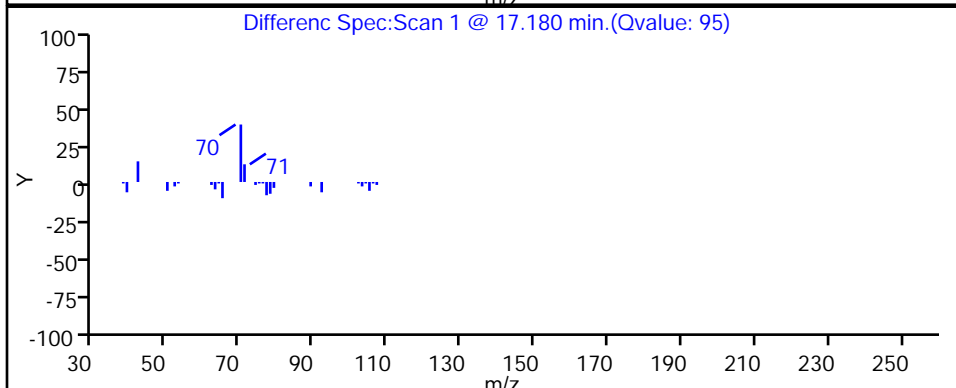
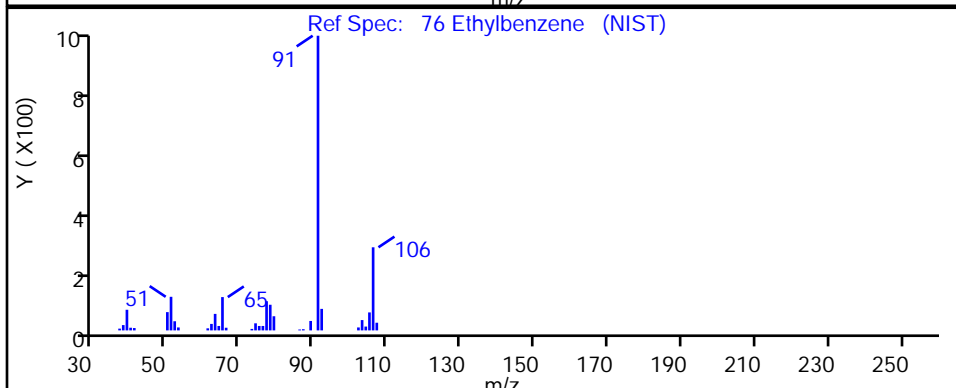
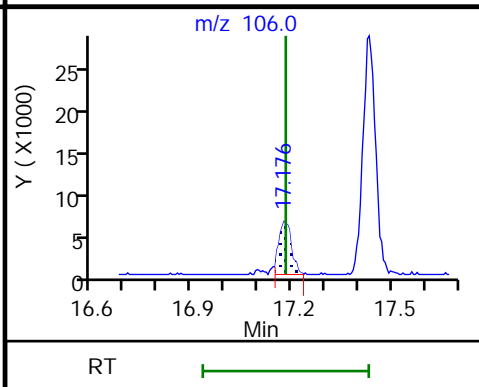
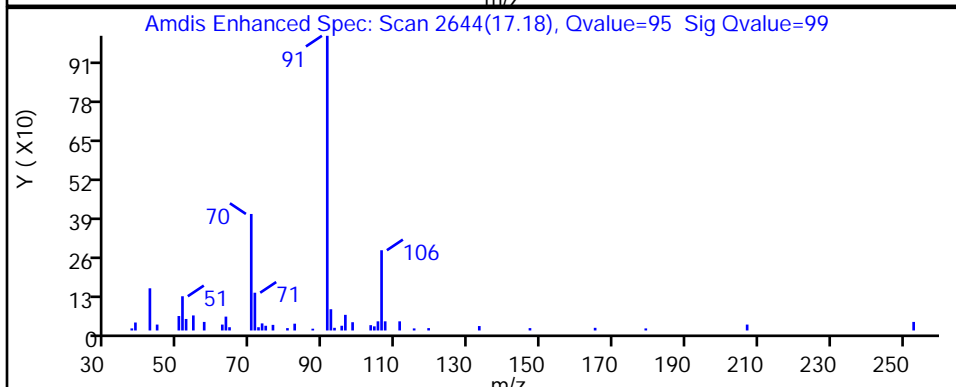
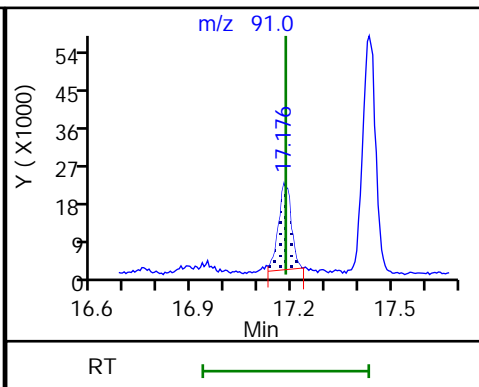
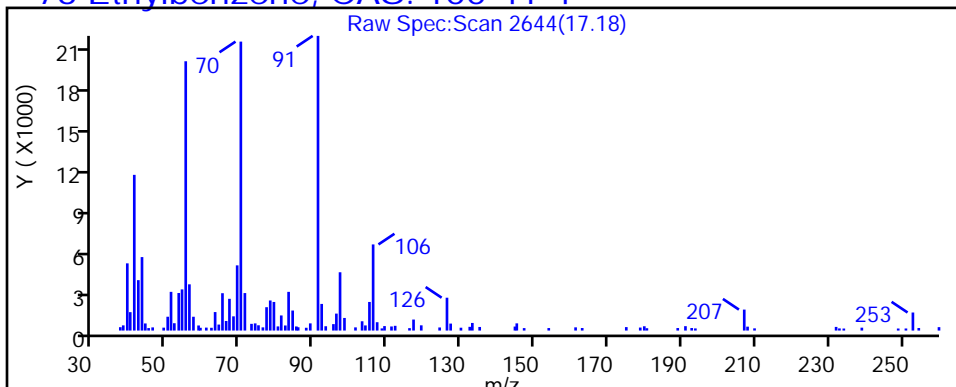
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12 Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

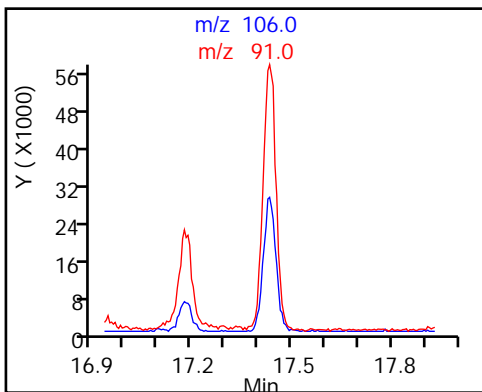
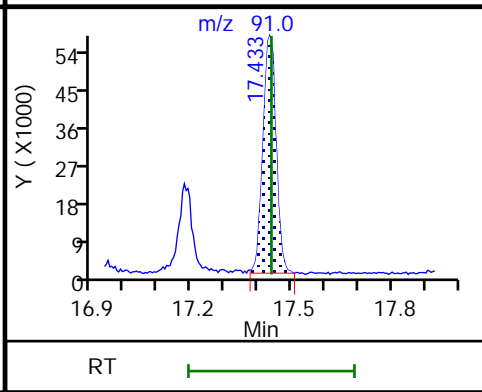
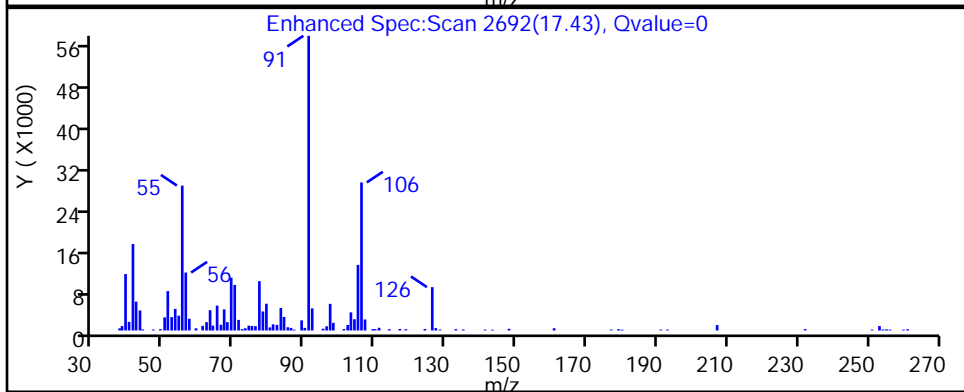
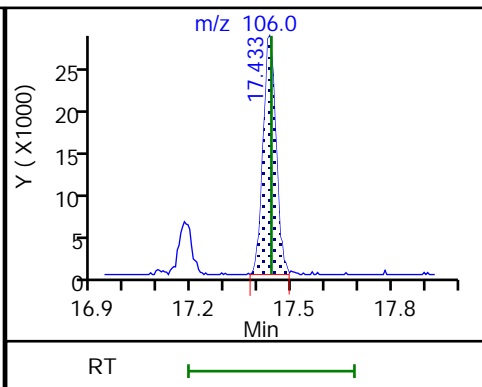
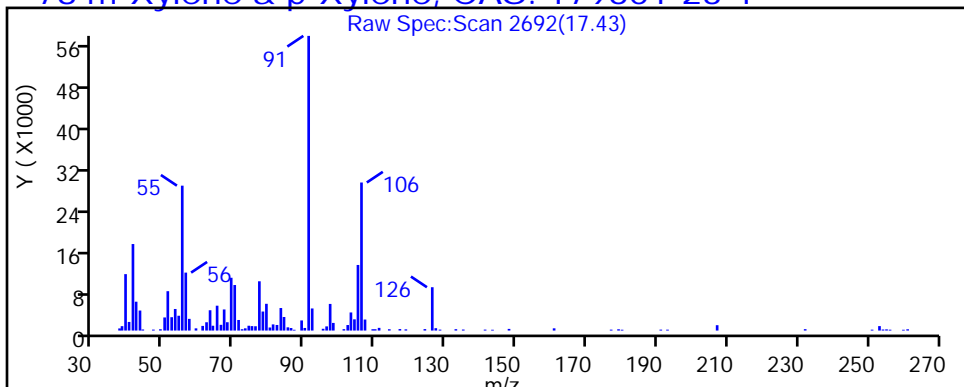
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

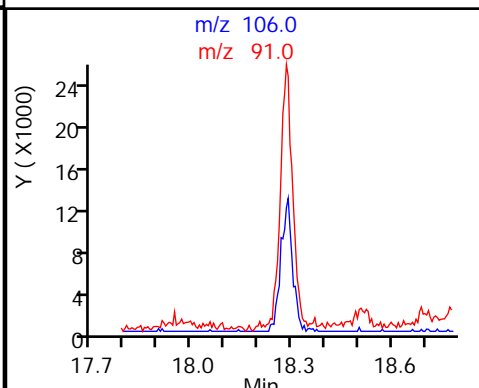
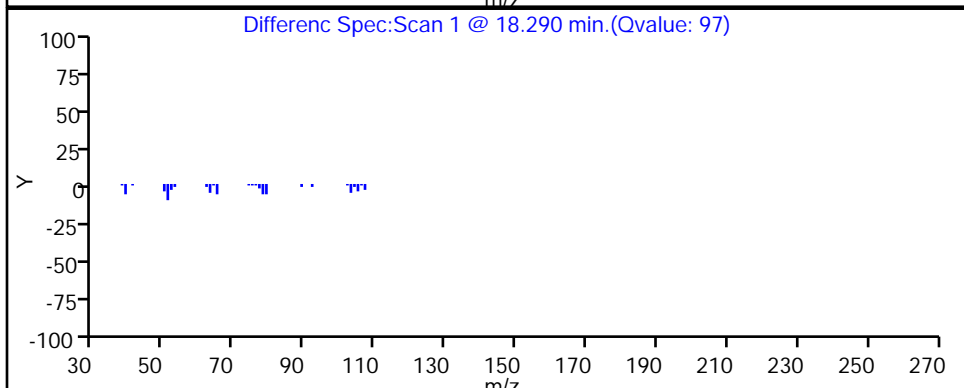
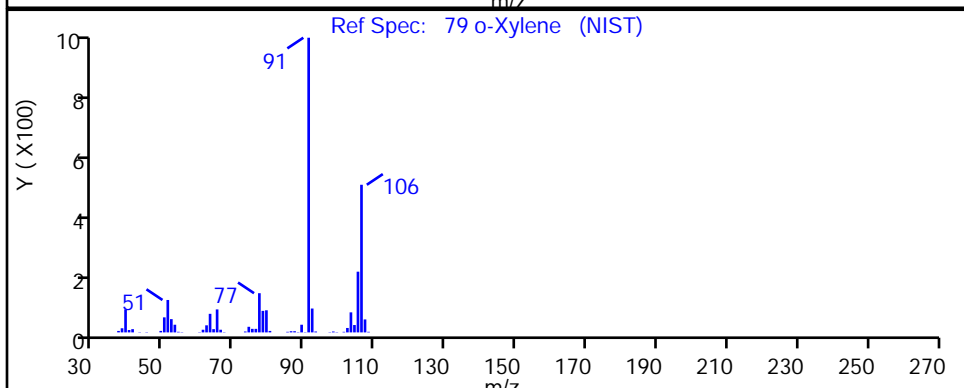
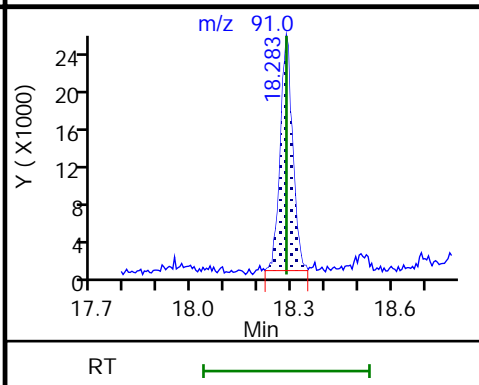
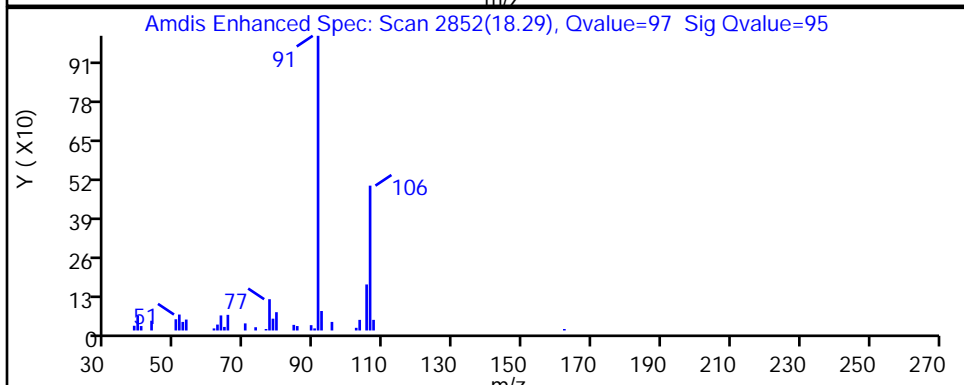
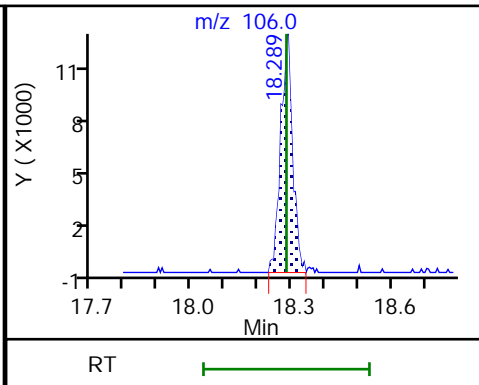
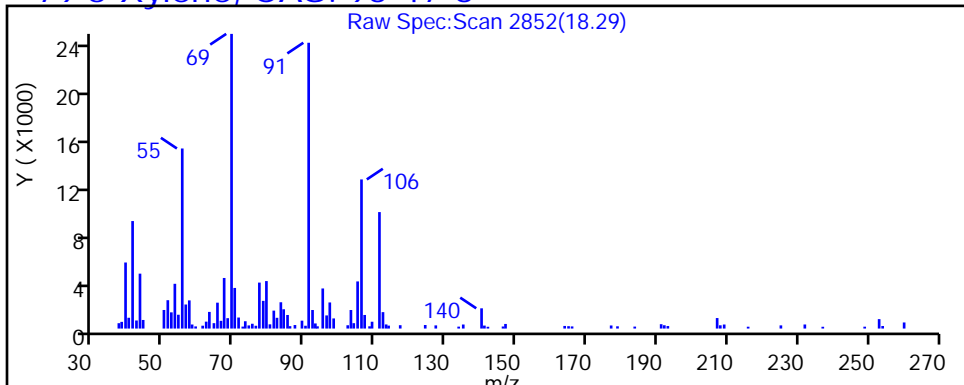
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D

Injection Date: 06-Dec-2018 23:23:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-10

Lab Sample ID: 200-46353-10

Client ID: MP-4\_20181120

Operator ID: ert

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

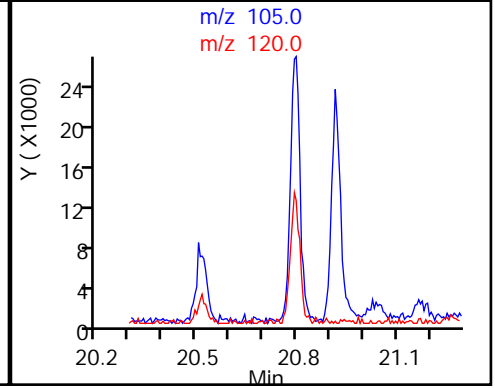
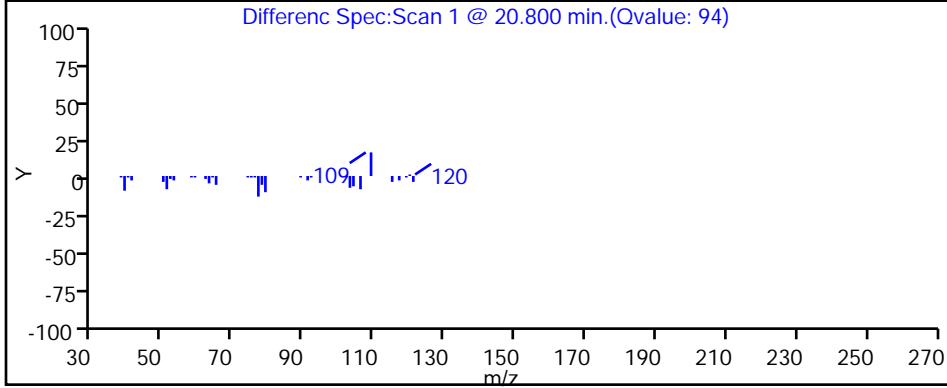
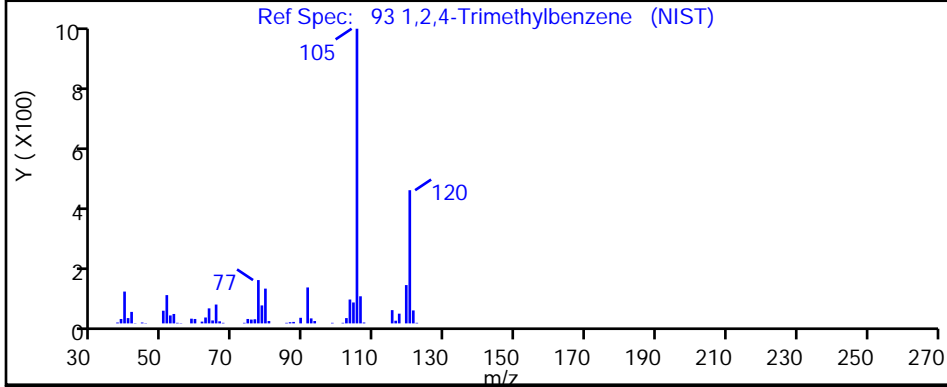
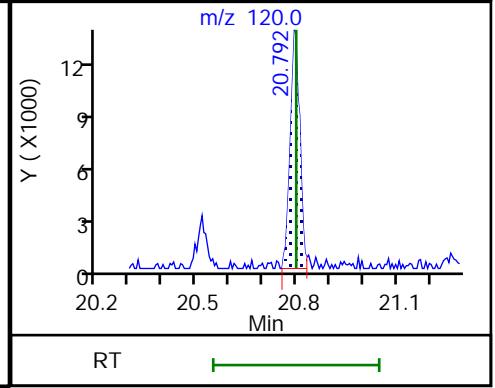
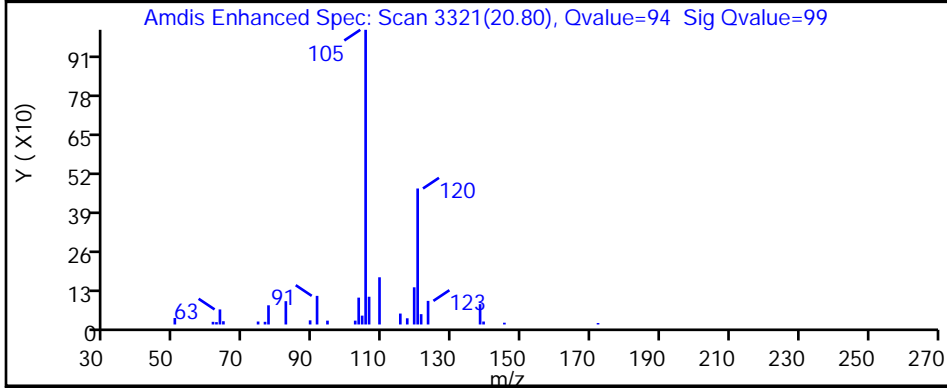
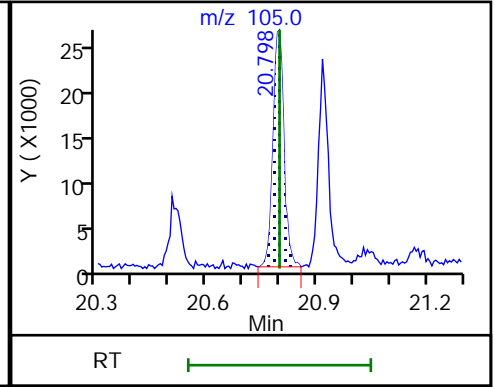
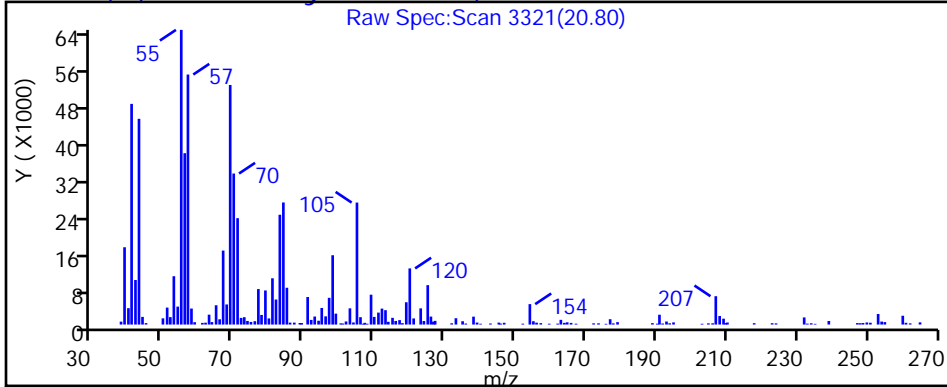
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Burlington

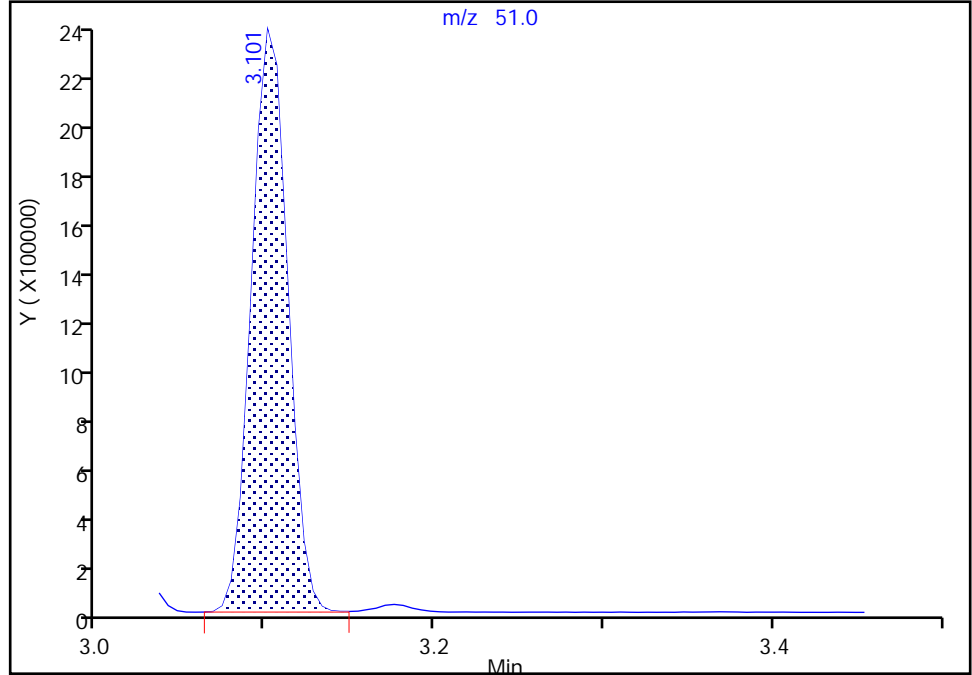
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

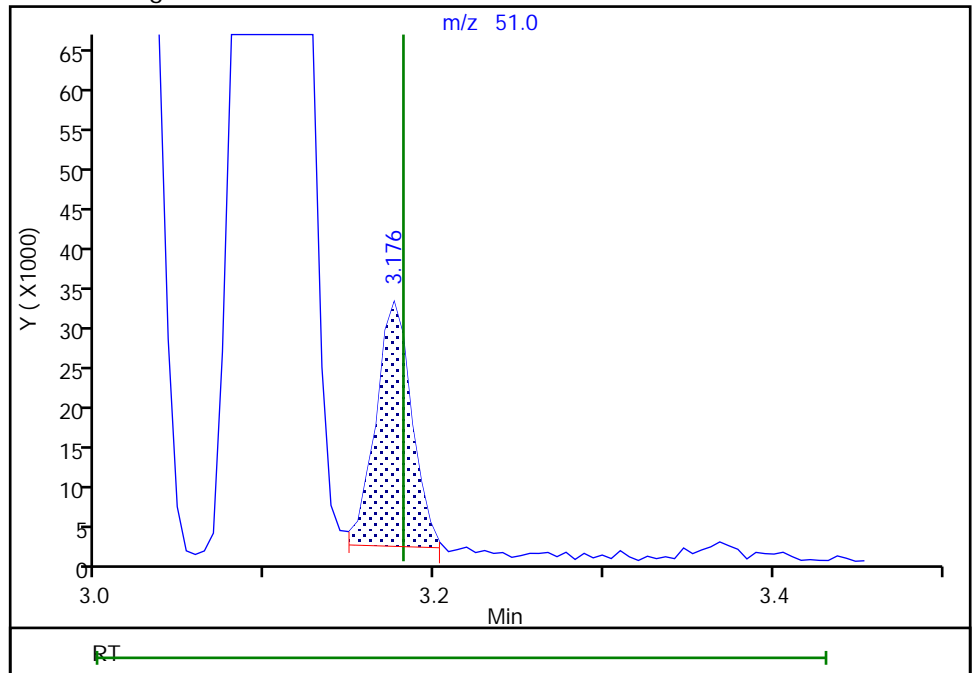
RT: 3.10  
Area: 3510140  
Amount: 41.278009  
Amount Units: ppb v/v

Processing Integration Results



RT: 3.18  
Area: 44843  
Amount: 0.527338  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 16:37:41

Audit Action: Manually Integrated

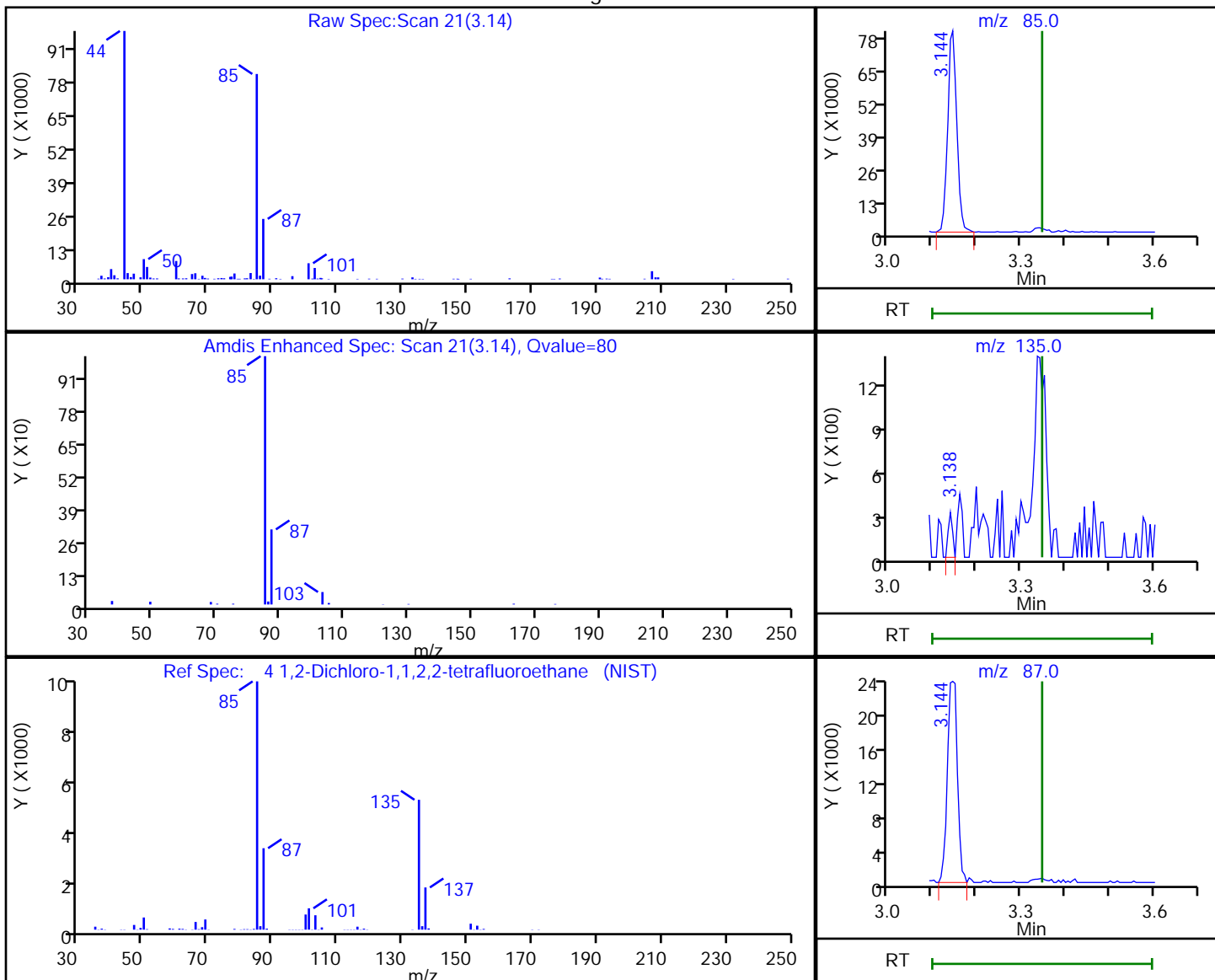
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.14 | 85.00  | 115353   | 0.767316 |
| 3.14 | 135.00 | 203      |          |
| 3.14 | 87.00  | 37505    |          |

Reviewer: puangmaleek, 07-Dec-2018 16:37:46

Audit Action: Marked Compound Undetected

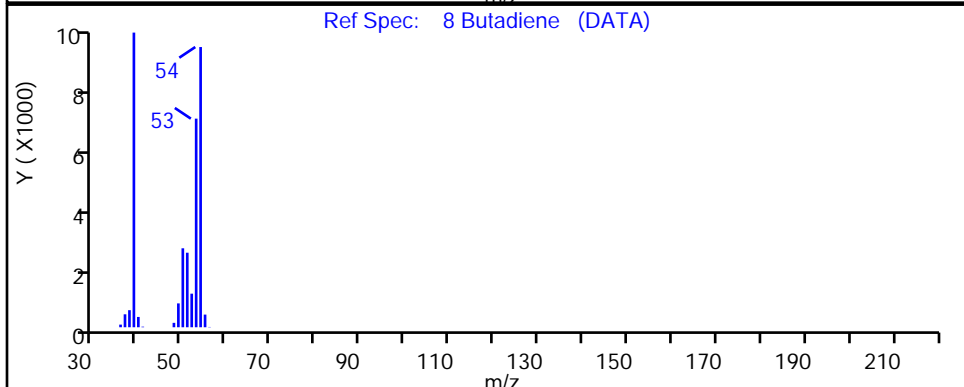
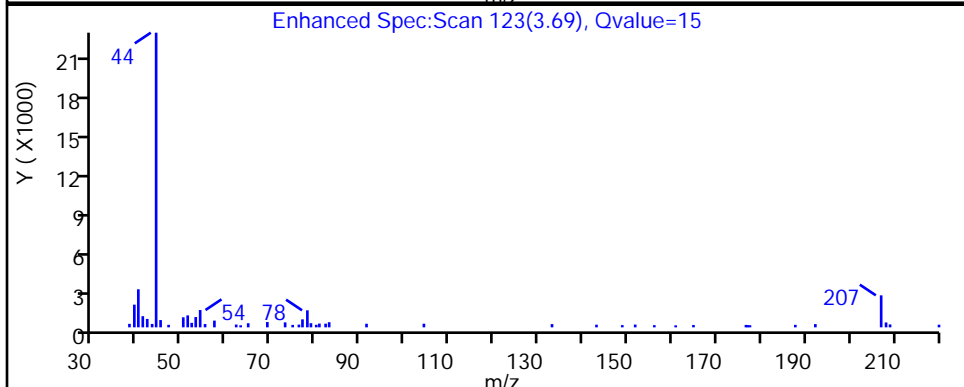
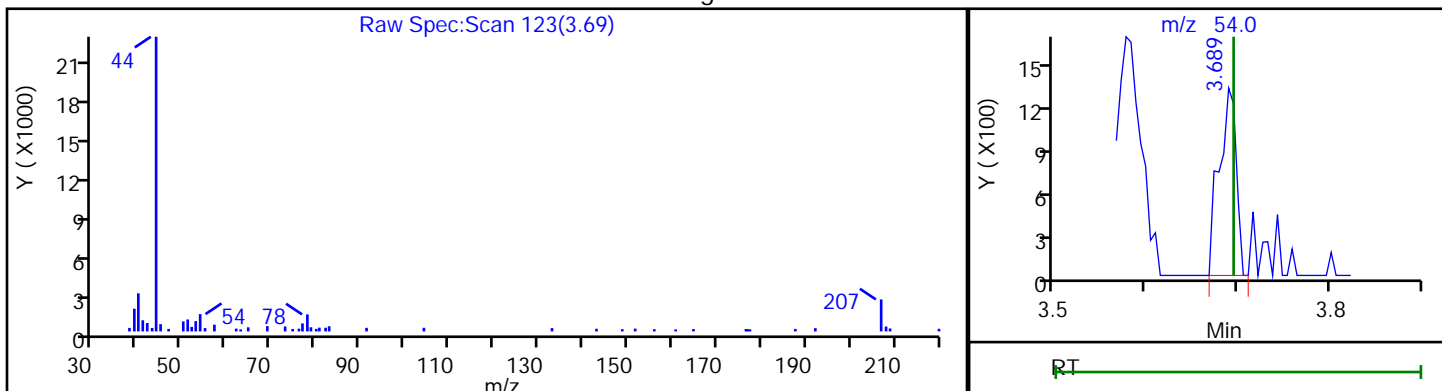
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 1708     | 0.058675 |

Reviewer: puangmaleek, 07-Dec-2018 16:37:51

Audit Action: Marked Compound Undetected

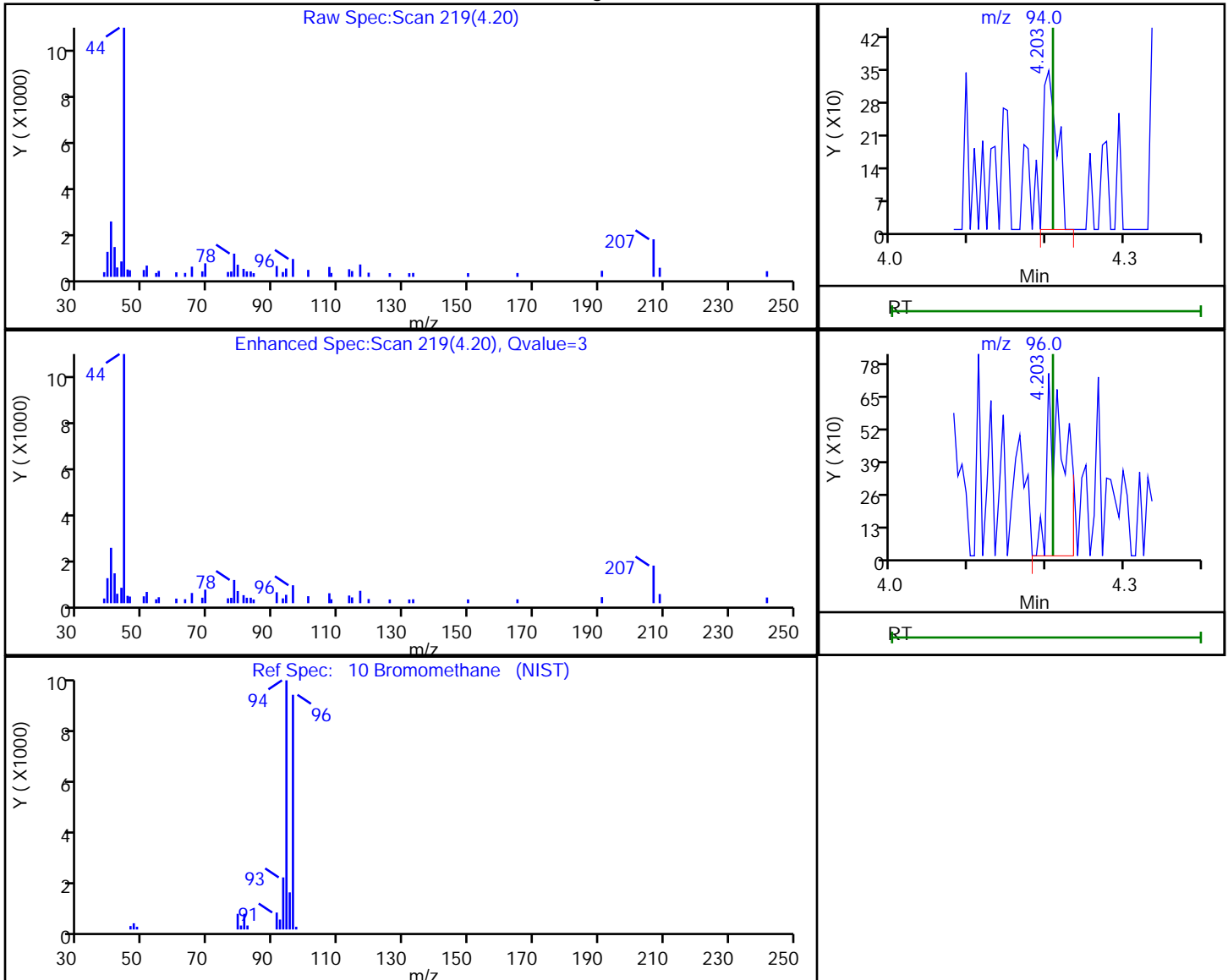
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.20 | 94.00 | 416      | 0.007701 |
| 4.20 | 96.00 | 1101     |          |

Reviewer: puangmaleek, 07-Dec-2018 16:37:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

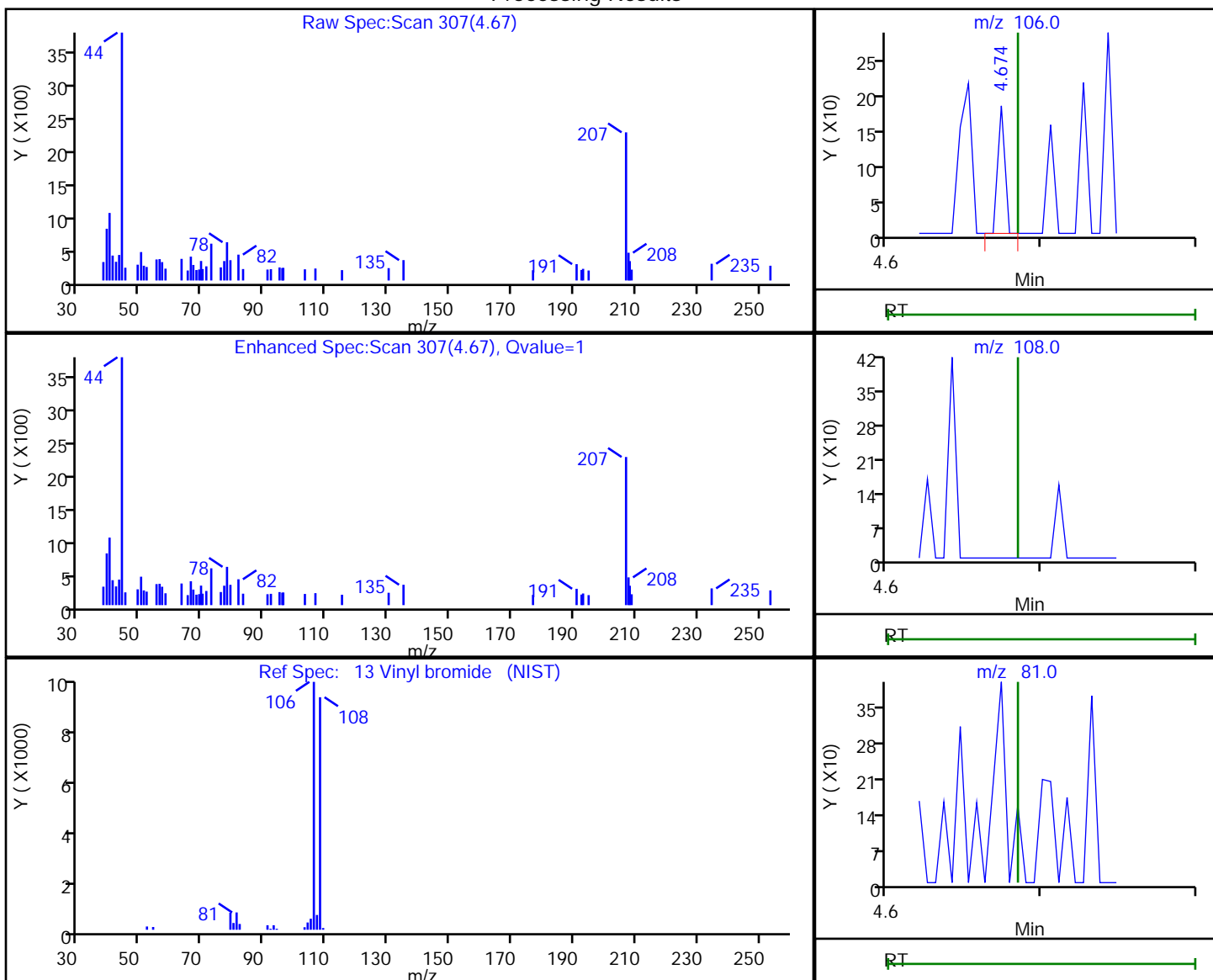


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.67 | 106.00 | 58       | 0.001086 |
| 4.68 | 108.00 | 0        |          |
| 4.68 | 81.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:37:55

Audit Action: Marked Compound Undetected

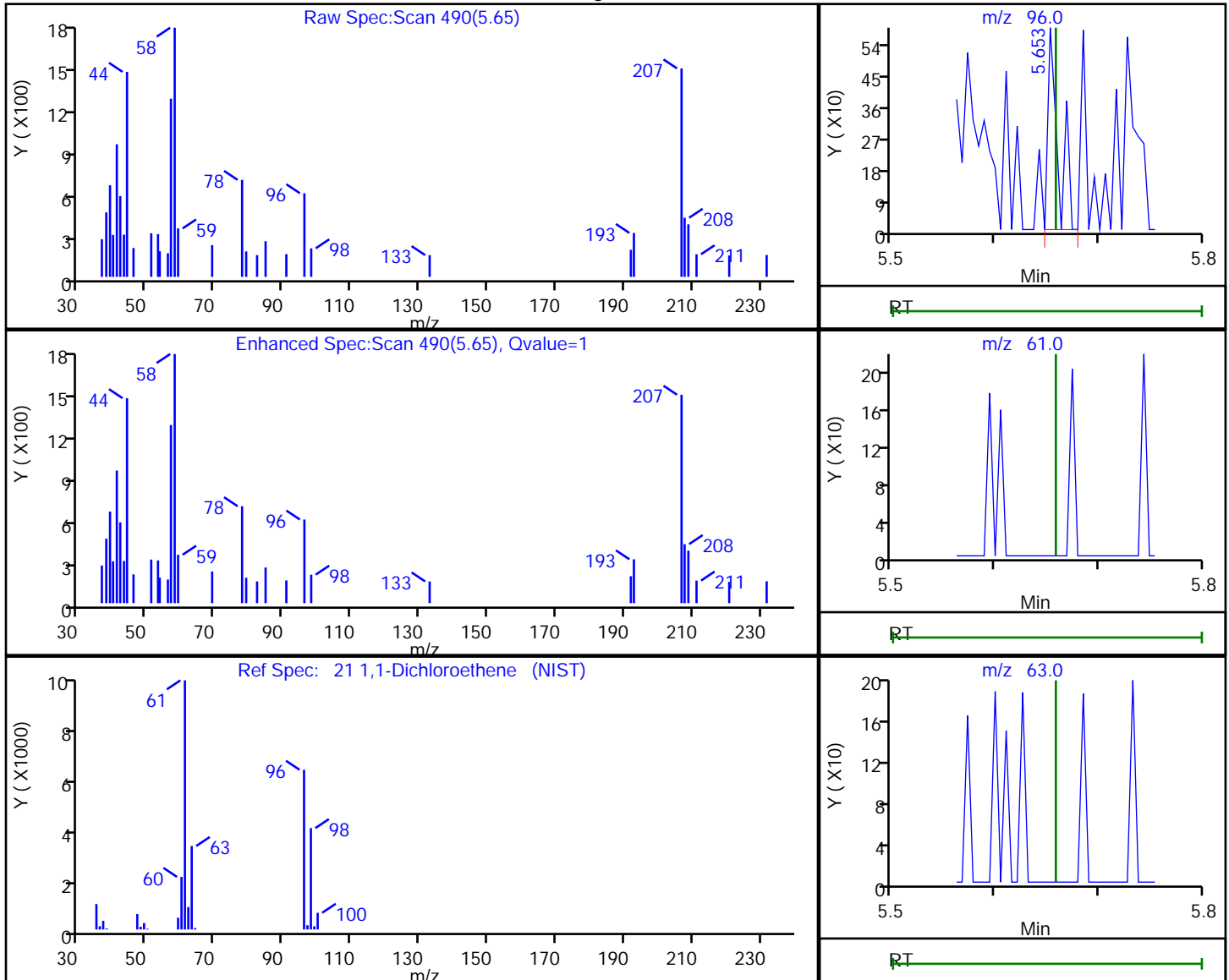
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.65 | 96.00 | 412      | 0.008417 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 16:37:59

Audit Action: Marked Compound Undetected

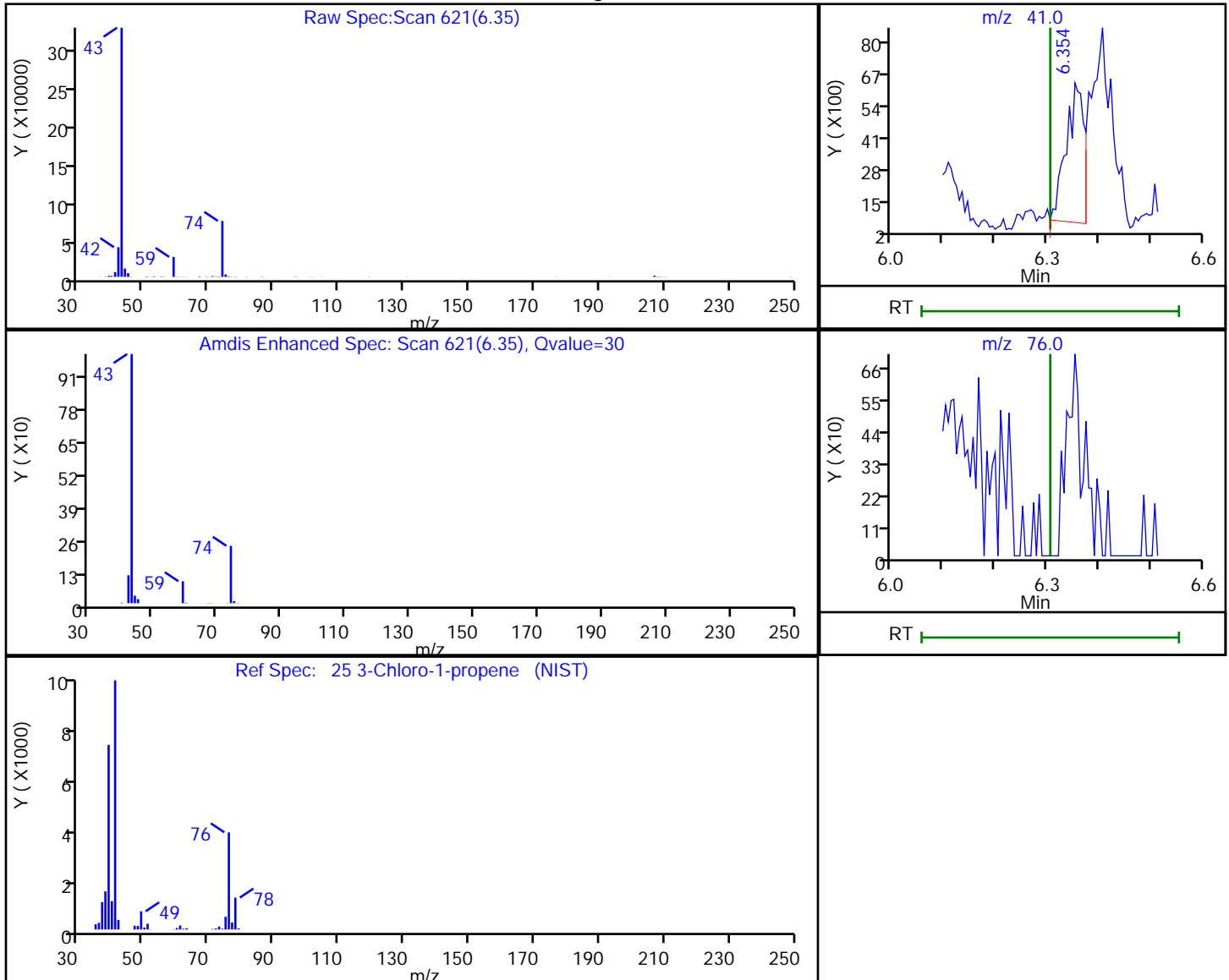
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.35 | 41.00 | 13766    | 0.378024 |
| 6.30 | 76.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:03:43

Audit Action: Marked Compound Undetected

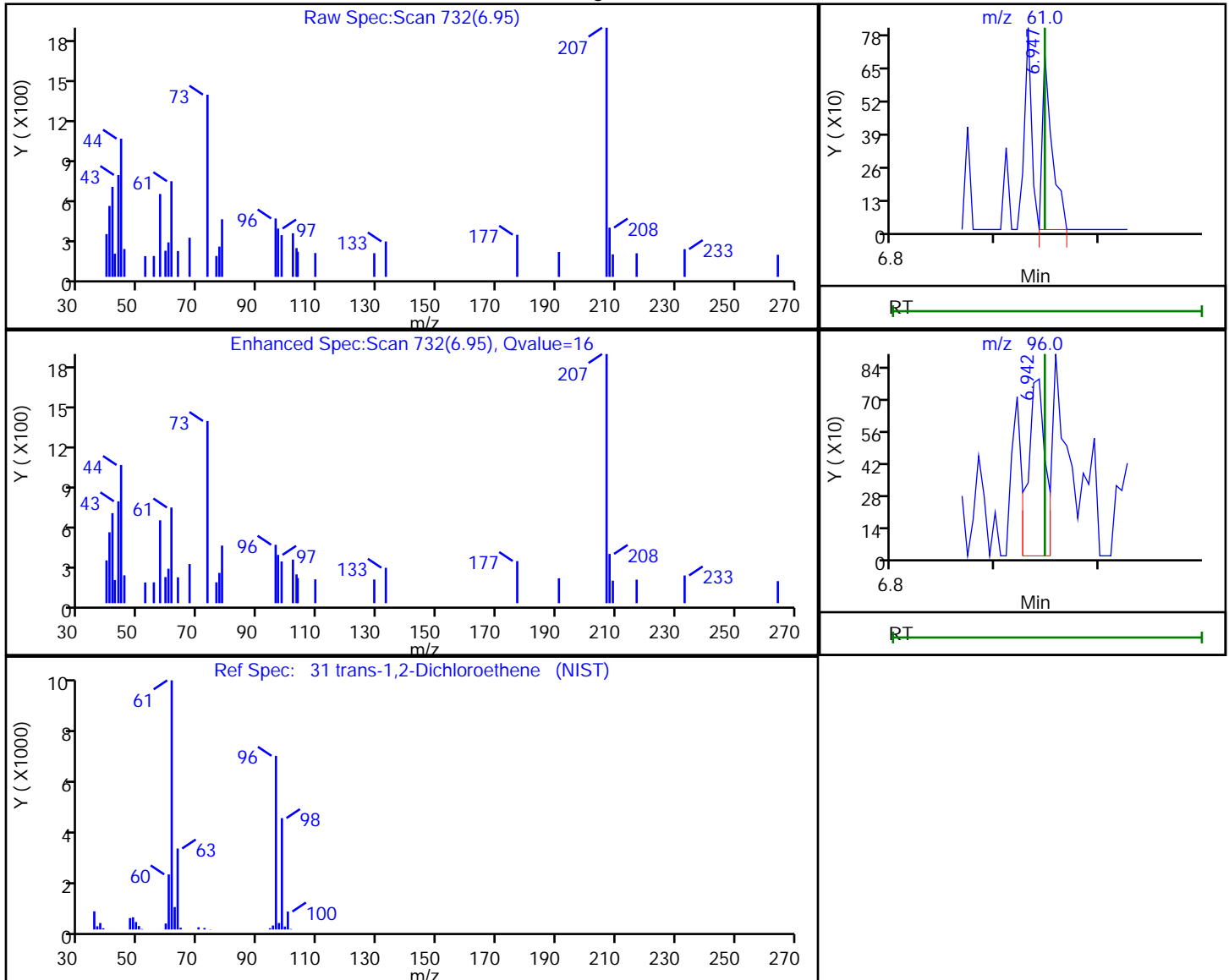
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.95 | 61.00 | 461      | 0.007773 |
| 6.94 | 96.00 | 924      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:03:51

Audit Action: Marked Compound Undetected

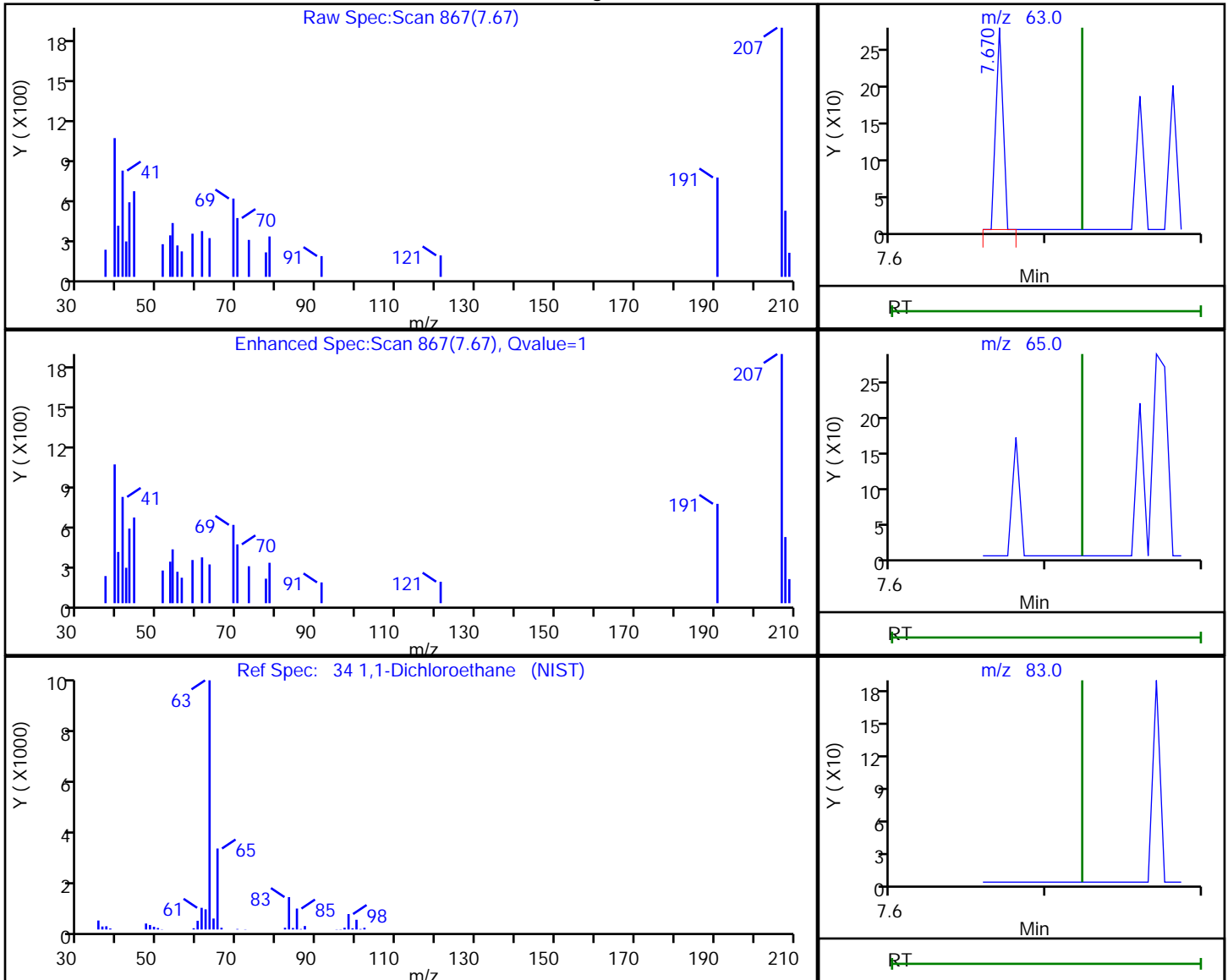
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.67 | 63.00 | 90       | 0.001176 |
| 7.72 | 65.00 | 0        |          |
| 7.72 | 83.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:03:54

Audit Action: Marked Compound Undetected

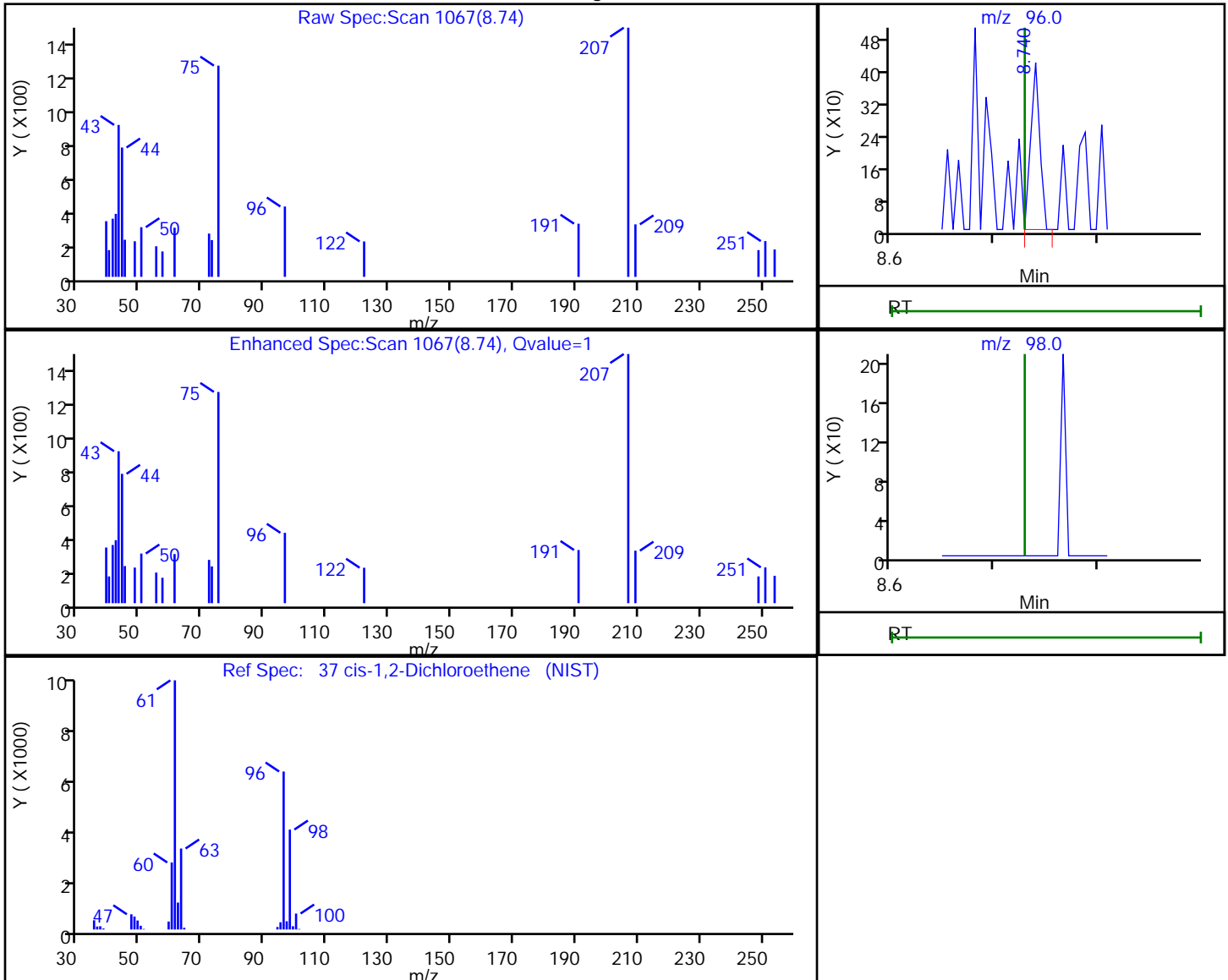
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.74 | 96.00 | 256      | 0.005521 |
| 8.72 | 98.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:03:56

Audit Action: Marked Compound Undetected

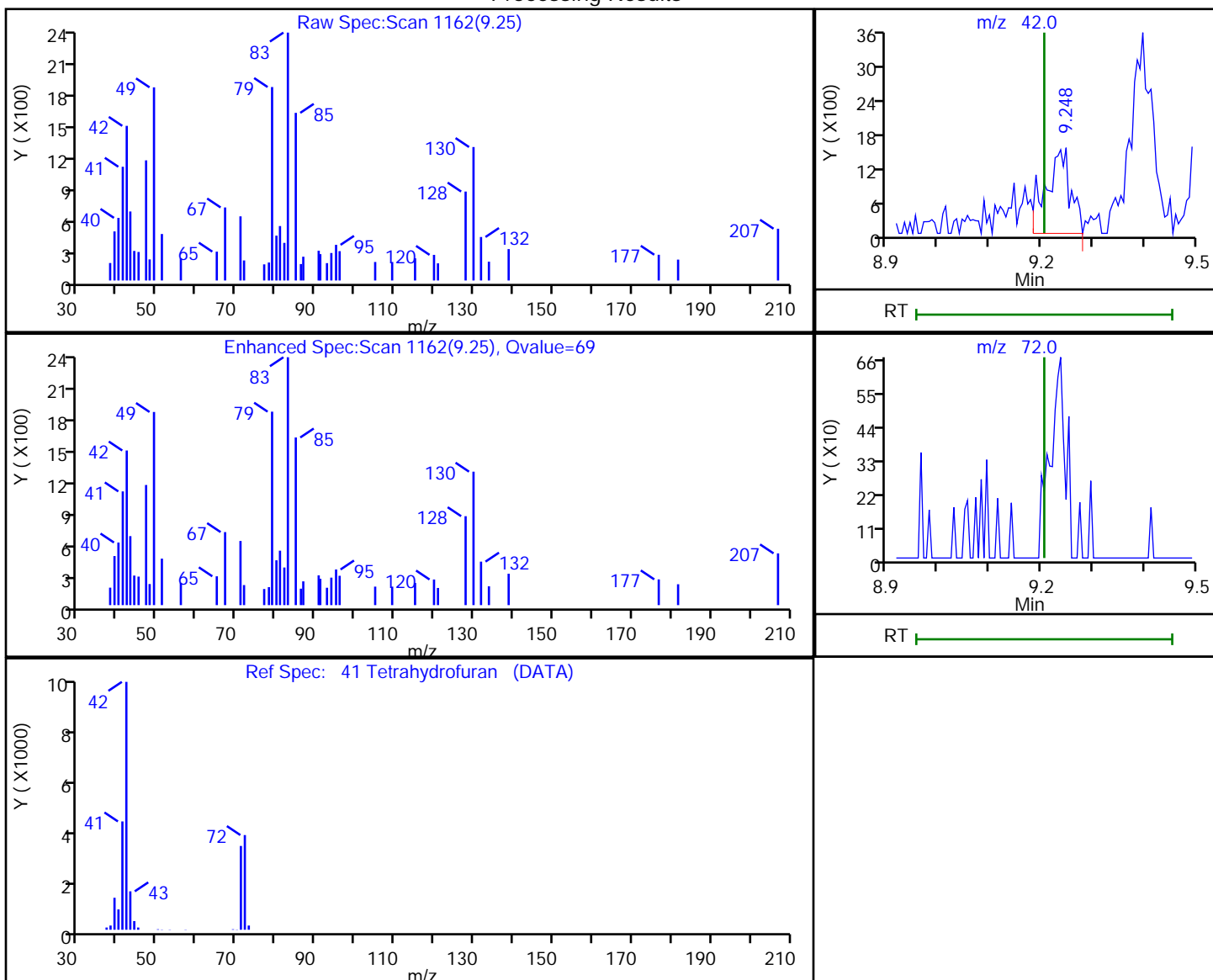
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.25 | 42.00 | 4858     | 0.197904 |
| 9.21 | 72.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:03:58

Audit Action: Marked Compound Undetected

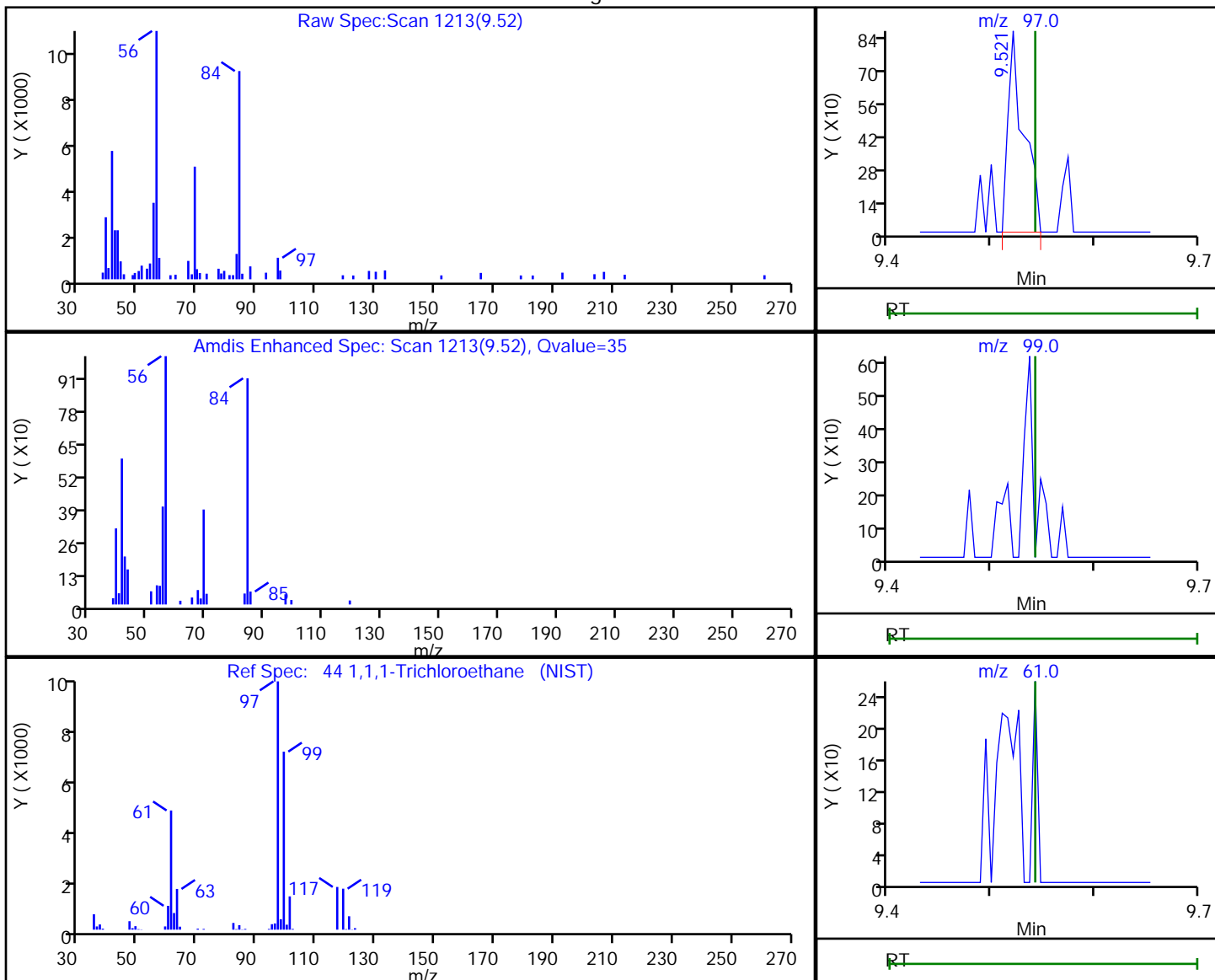
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.52 | 97.00 | 922      | 0.007712 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

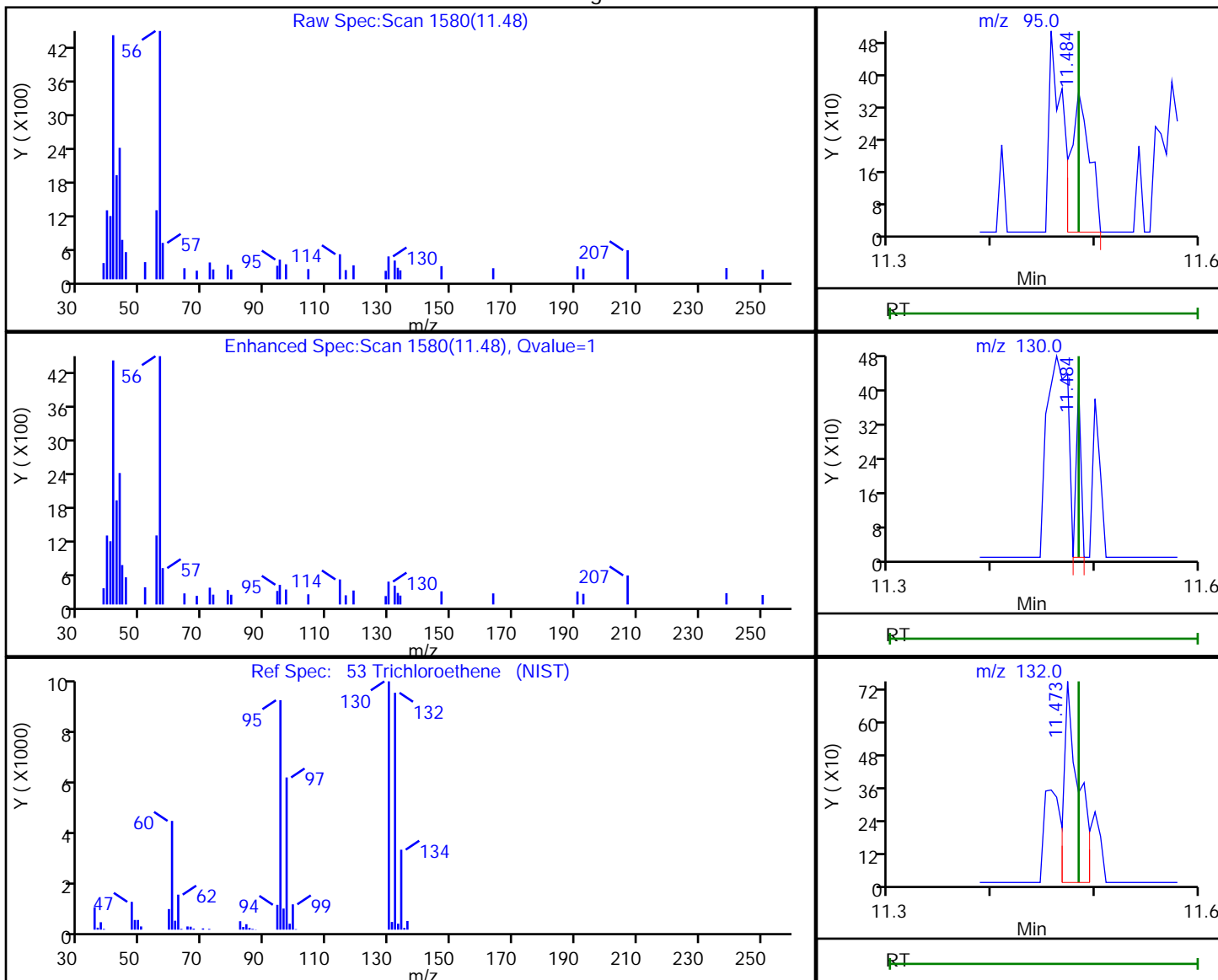


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.48 | 95.00  | 444      | 0.005922 |
| 11.48 | 130.00 | 131      |          |
| 11.47 | 132.00 | 738      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:10

Audit Action: Marked Compound Undetected

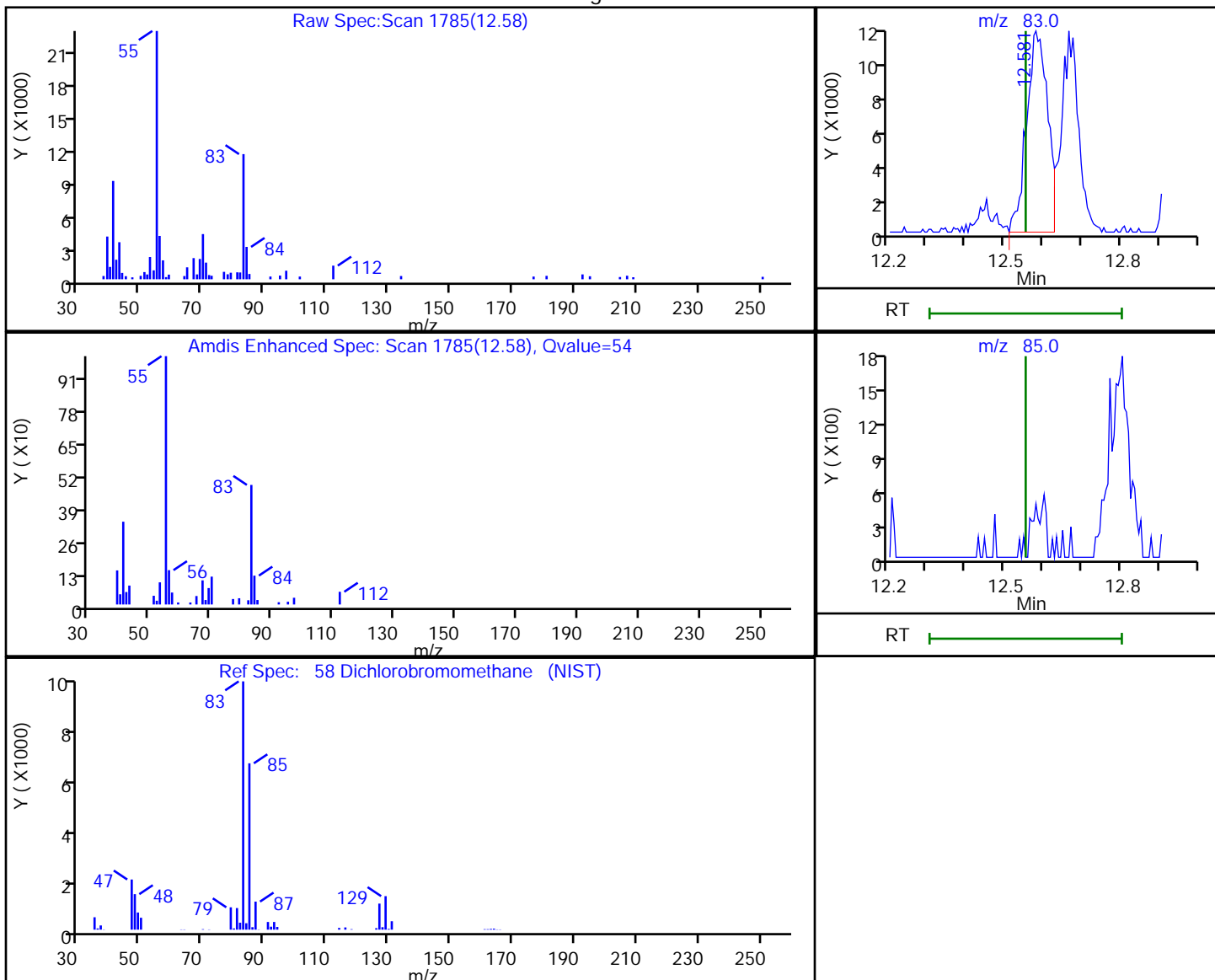
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.58 | 83.00 | 42451    | 0.364579 |
| 12.55 | 85.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:17

Audit Action: Marked Compound Undetected

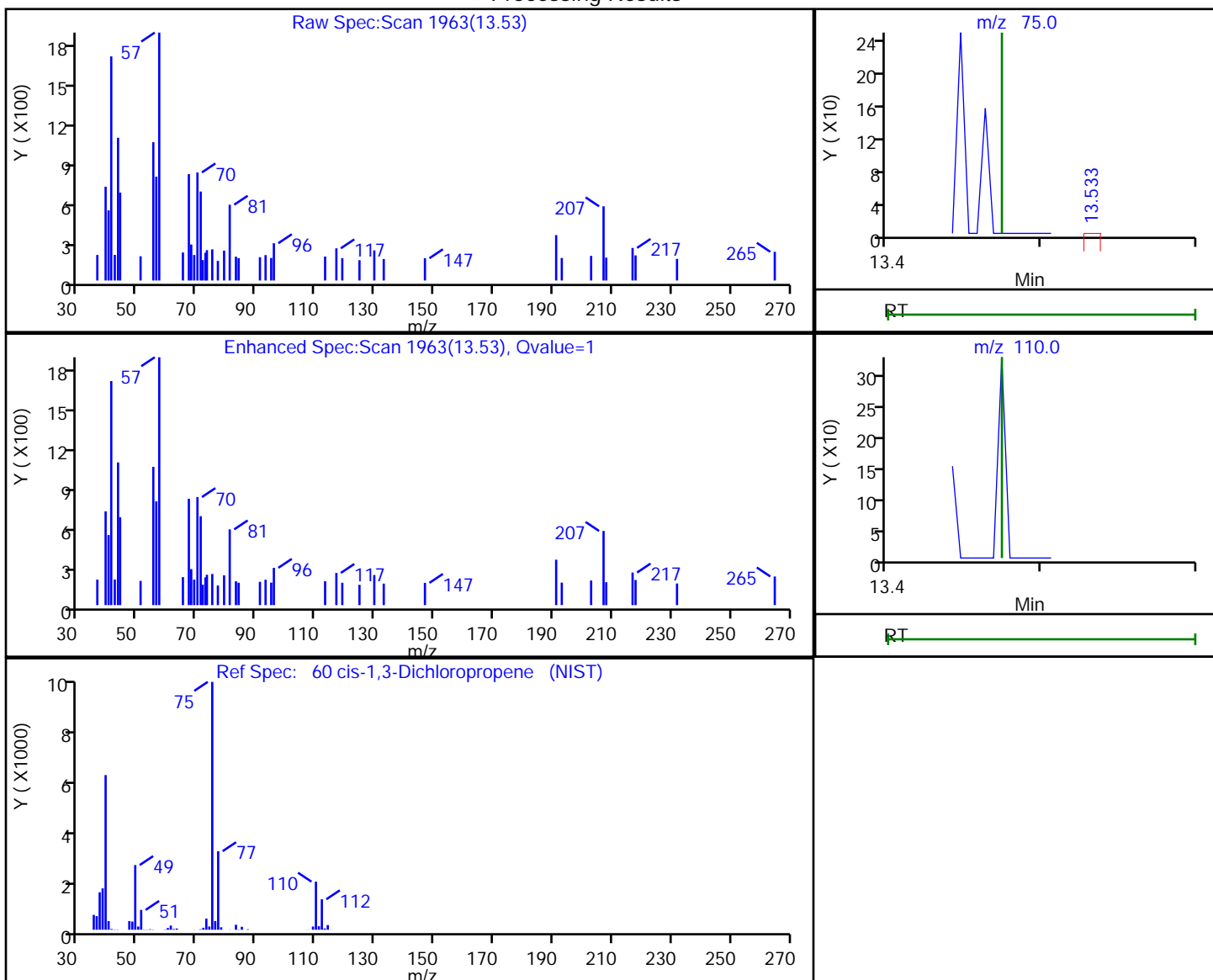
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.53 | 75.00  | 76       | 0.001054 |
| 13.47 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:19

Audit Action: Marked Compound Undetected

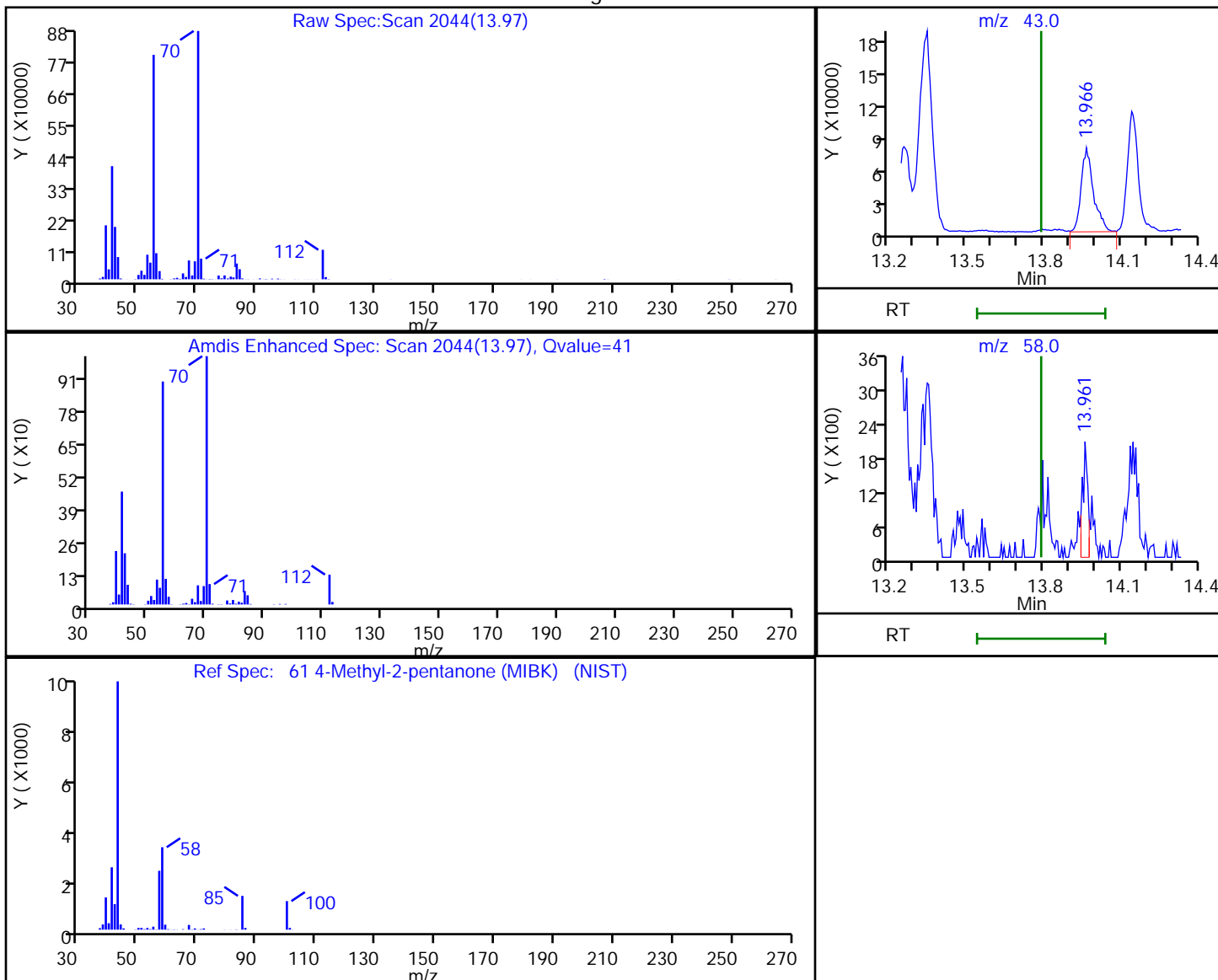
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.97 | 43.00 | 261808   | 3.513861 |
| 13.96 | 58.00 | 2835     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:22

Audit Action: Marked Compound Undetected

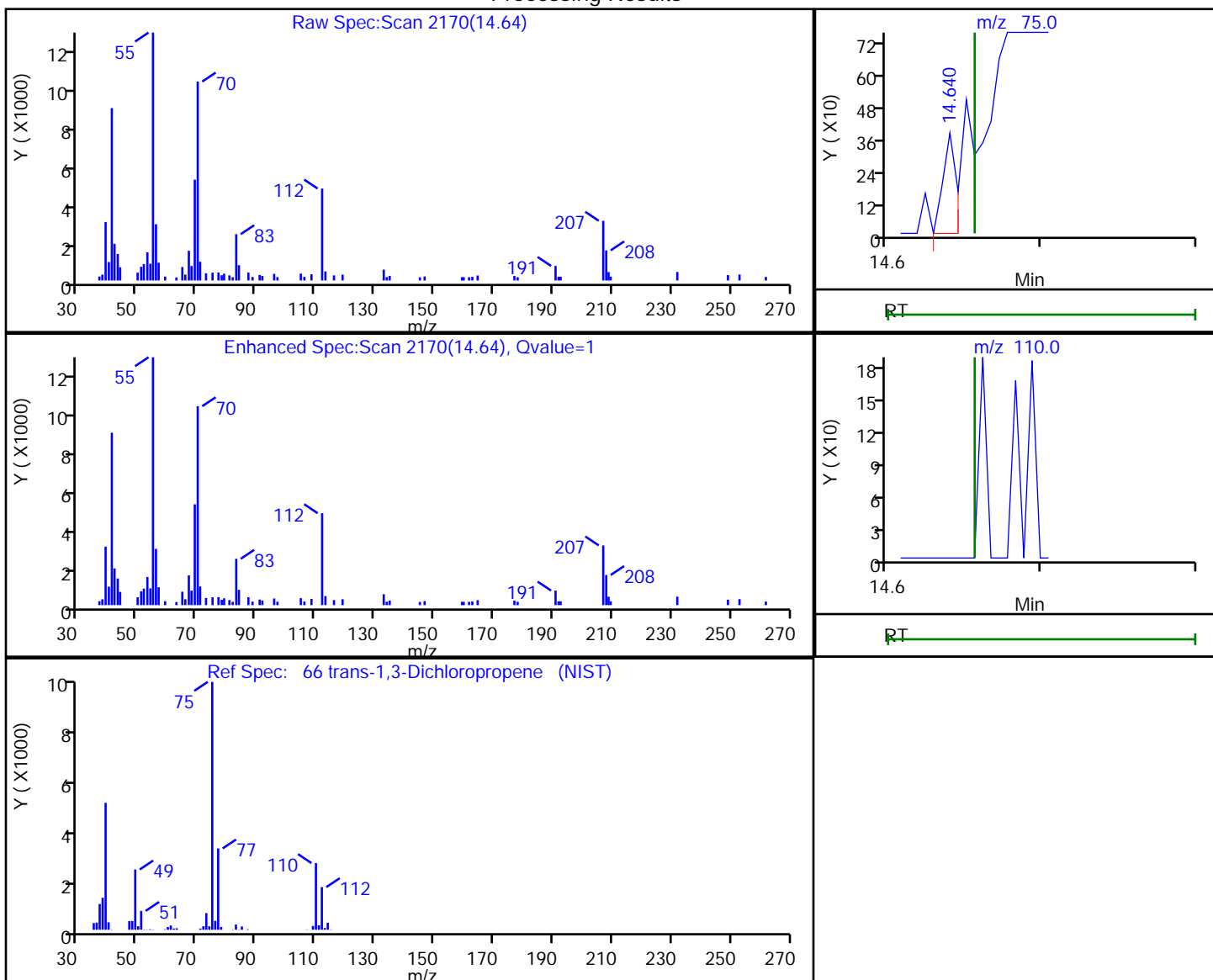
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.64 | 75.00  | 228      | 0.003216 |
| 14.65 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

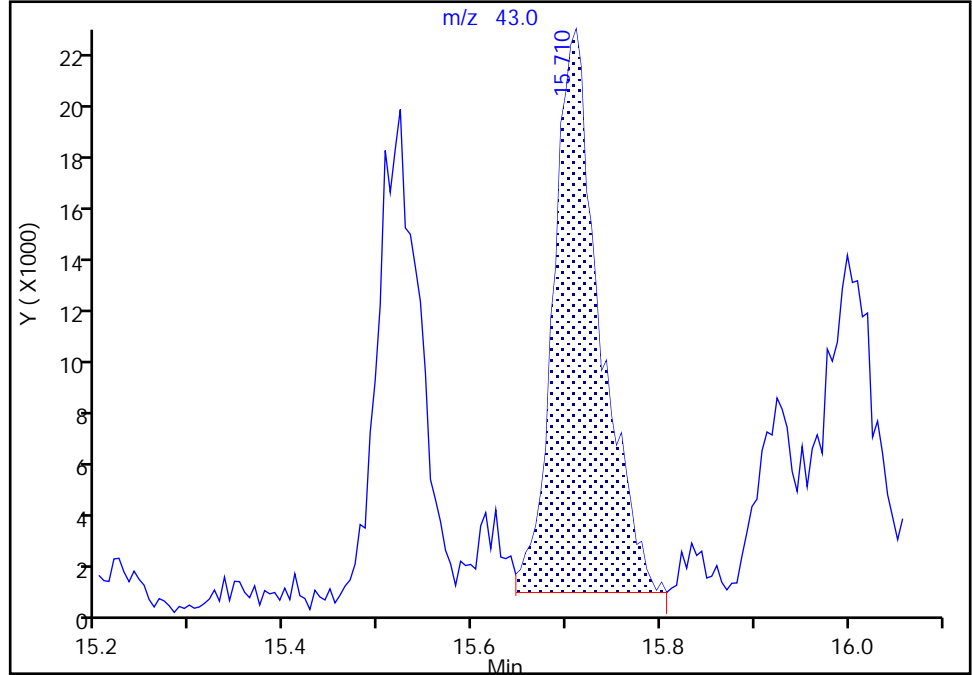
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Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Signal: 1

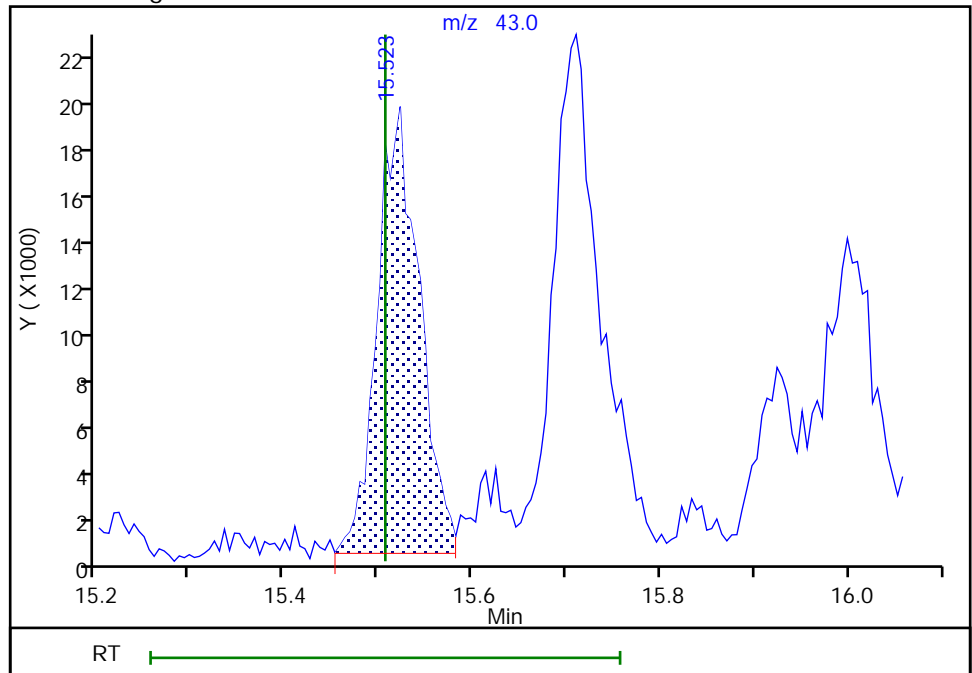
RT: 15.71  
Area: 73988  
Amount: 0.976574  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.52  
Area: 59031  
Amount: 0.779155  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:04:46

Audit Action: Manually Integrated

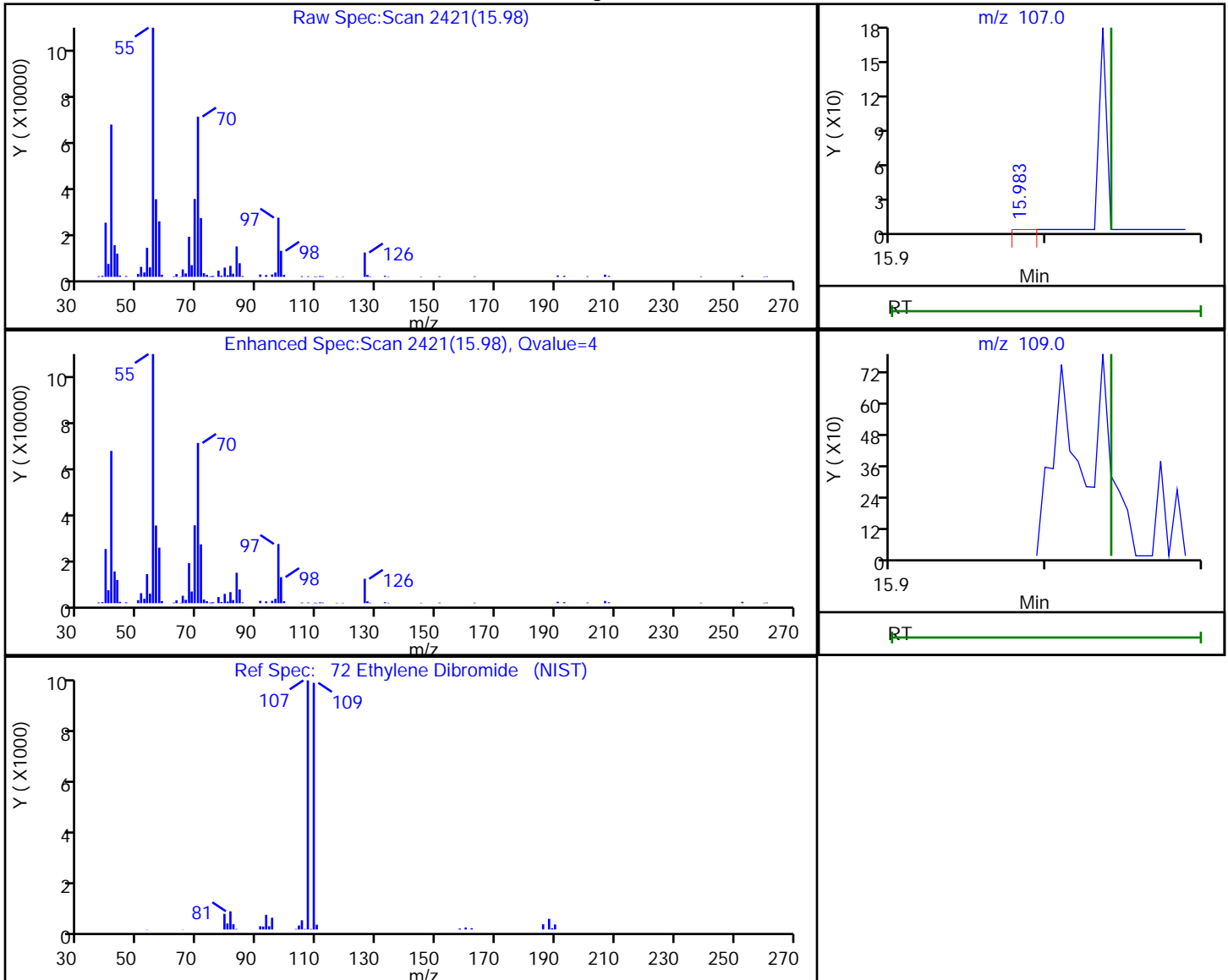
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.98 | 107.00 | 137      | 0.001455 |
| 16.04 | 109.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:50

Audit Action: Marked Compound Undetected

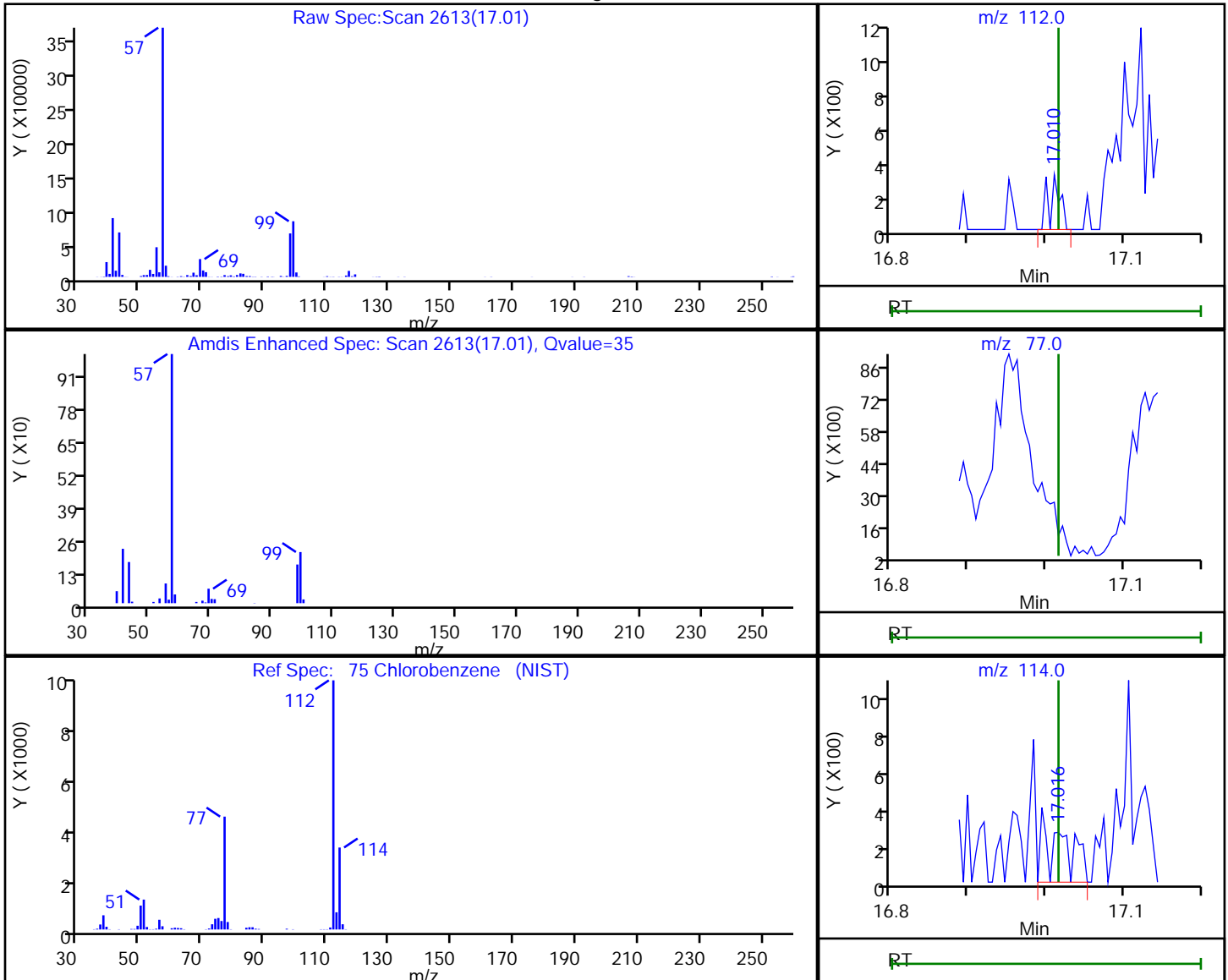
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.01 | 112.00 | 310      | 0.002338 |
| 17.02 | 114.00 | 752      |          |
| 17.02 | 77.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:04:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

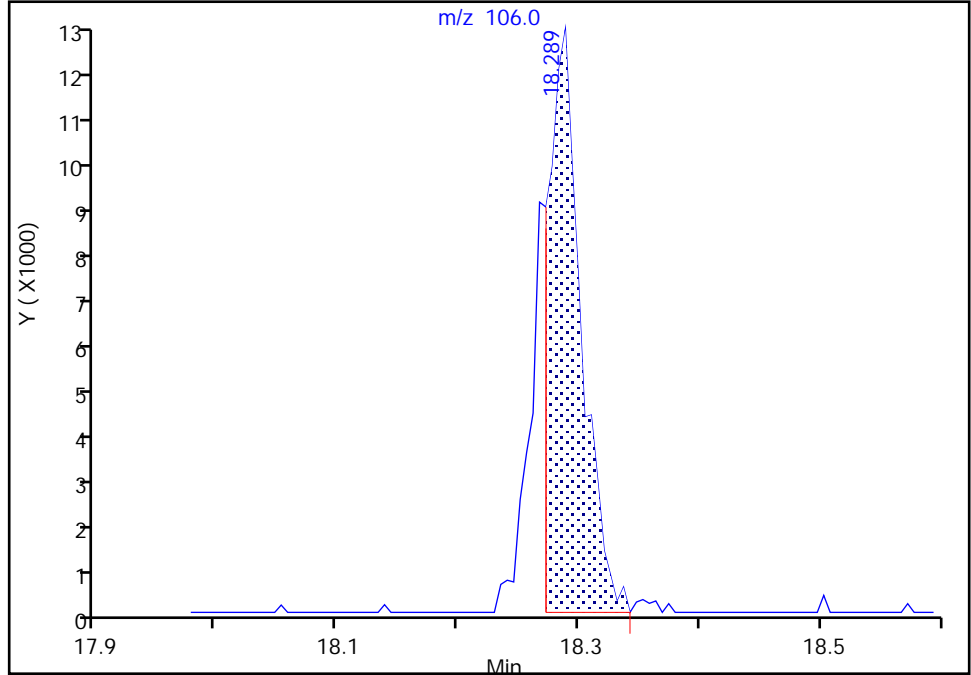
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Signal: 1

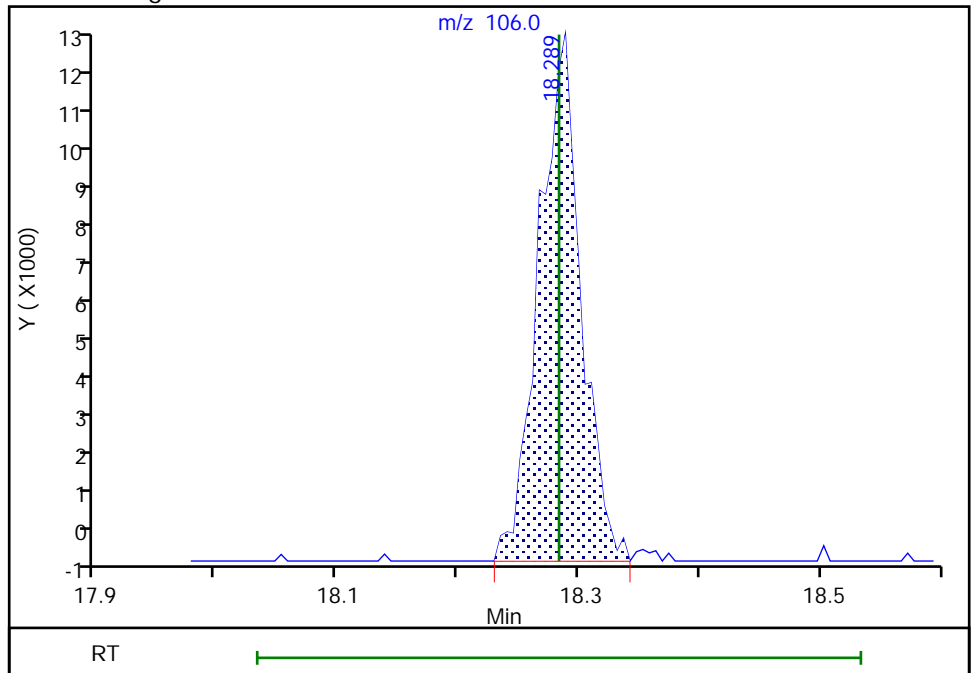
RT: 18.29  
Area: 23851  
Amount: 0.318952  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.29  
Area: 30665  
Amount: 0.410073  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

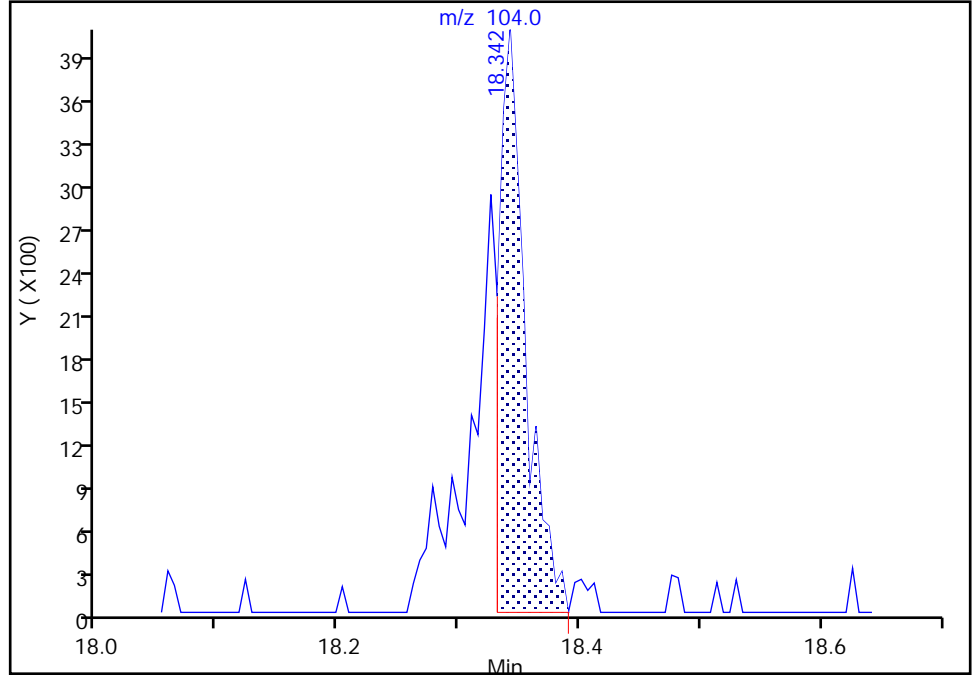
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Signal: 1

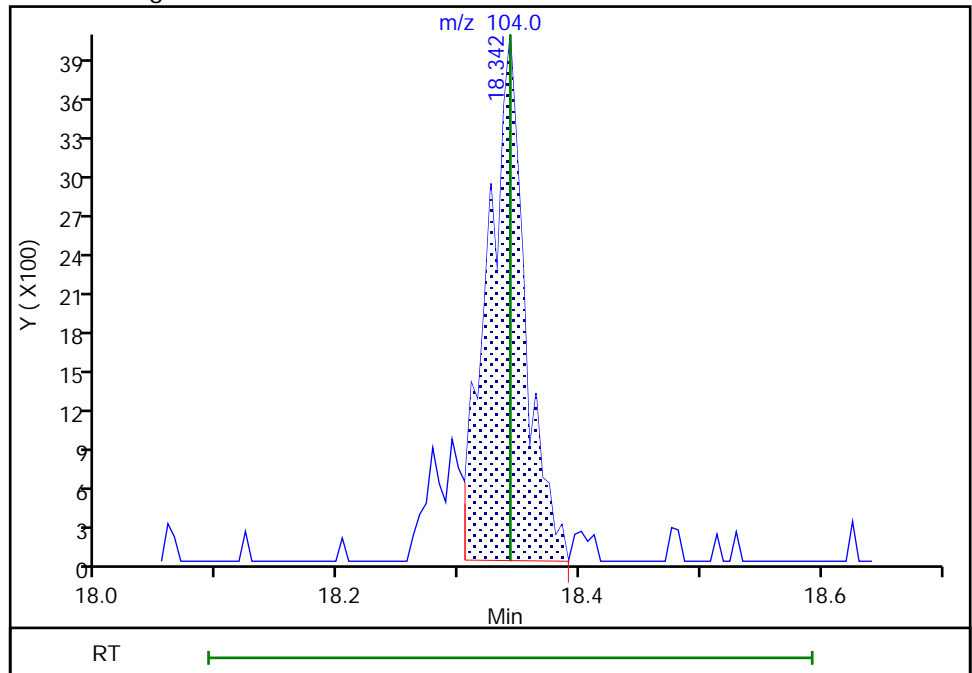
RT: 18.34  
Area: 6134  
Amount: 0.053585  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.34  
Area: 8709  
Amount: 0.076079  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:05:16  
Audit Action: Manually Integrated

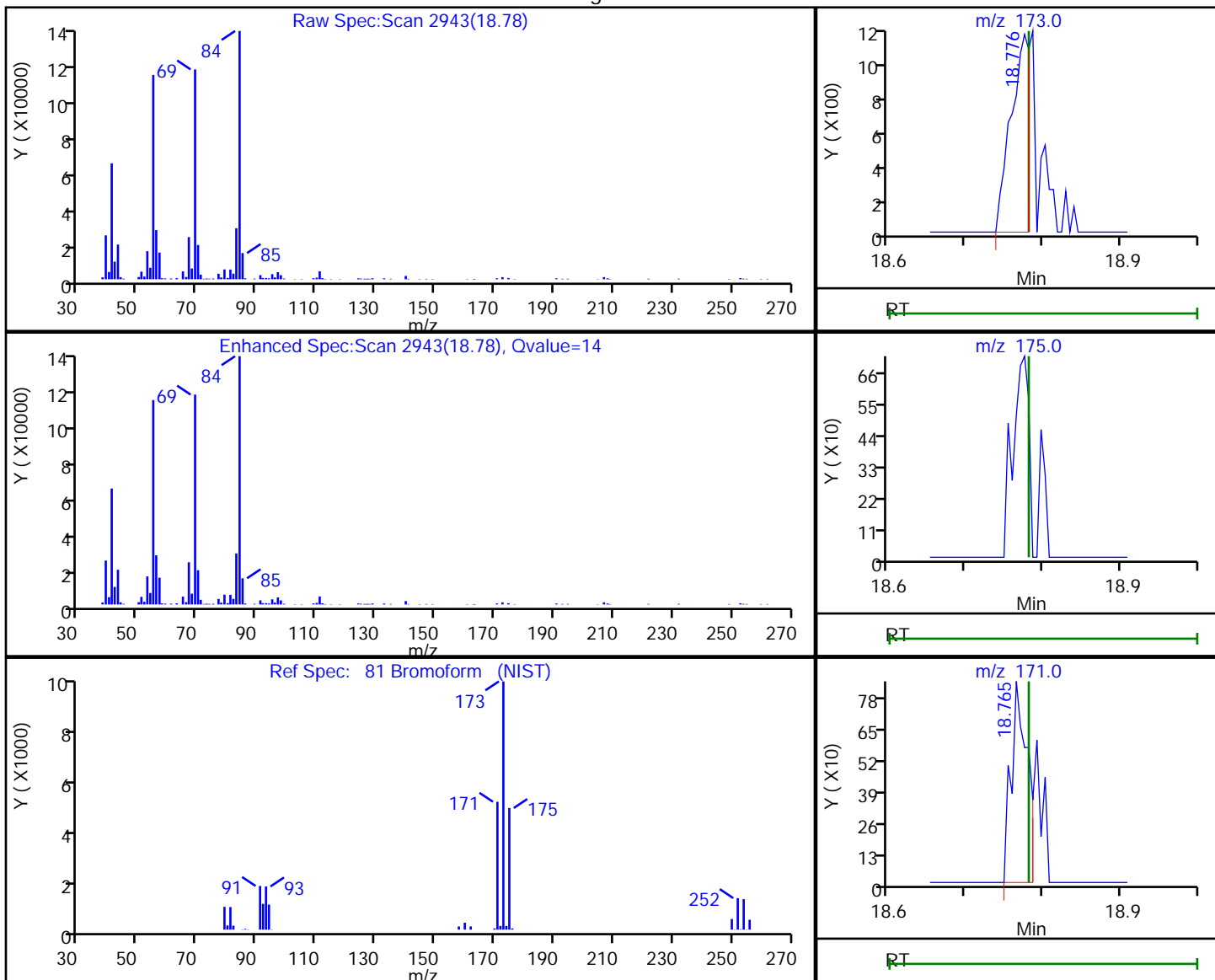
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Bromoform, CAS: 75-25-2

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.78 | 173.00 | 1951     | 0.017295 |
| 18.78 | 175.00 | 0        |          |
| 18.76 | 171.00 | 1228     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:20

Audit Action: Marked Compound Undetected

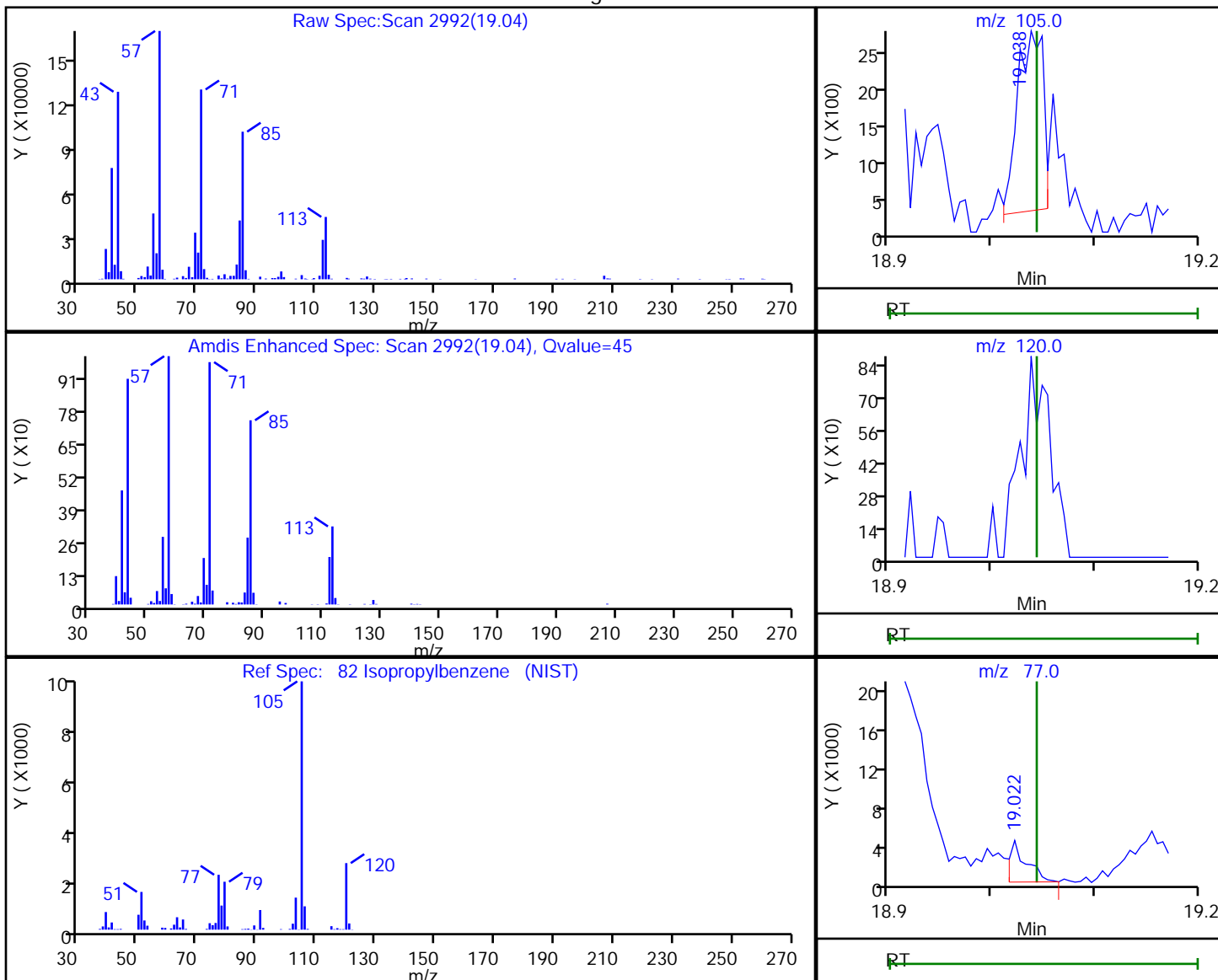
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.04 | 105.00 | 4250     | 0.019437 |
| 19.04 | 120.00 | 0        |          |
| 19.02 | 77.00  | 4536     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:22

Audit Action: Marked Compound Undetected

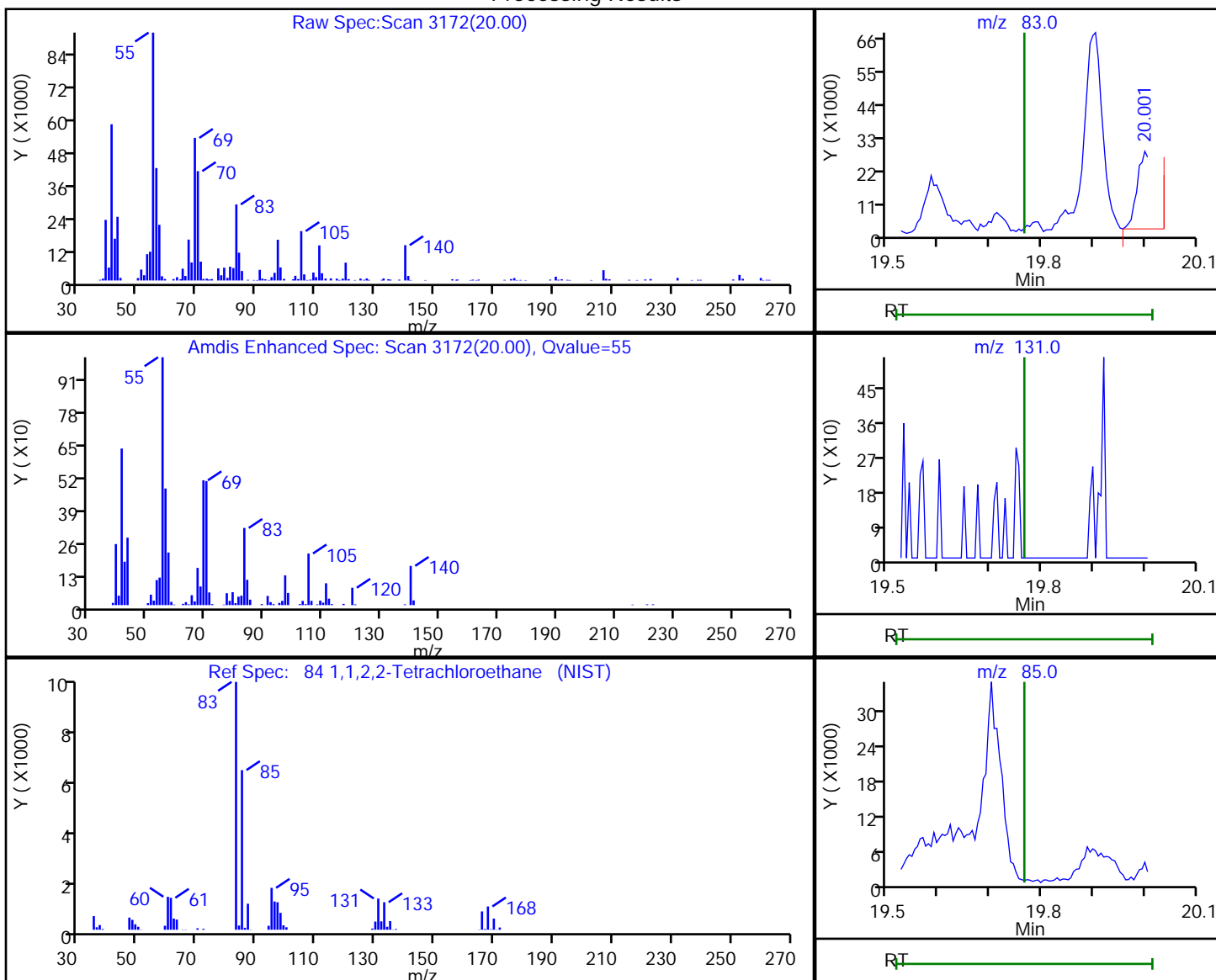
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.00 | 83.00  | 60940    | 0.510800 |
| 19.76 | 131.00 | 0        |          |
| 19.76 | 85.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

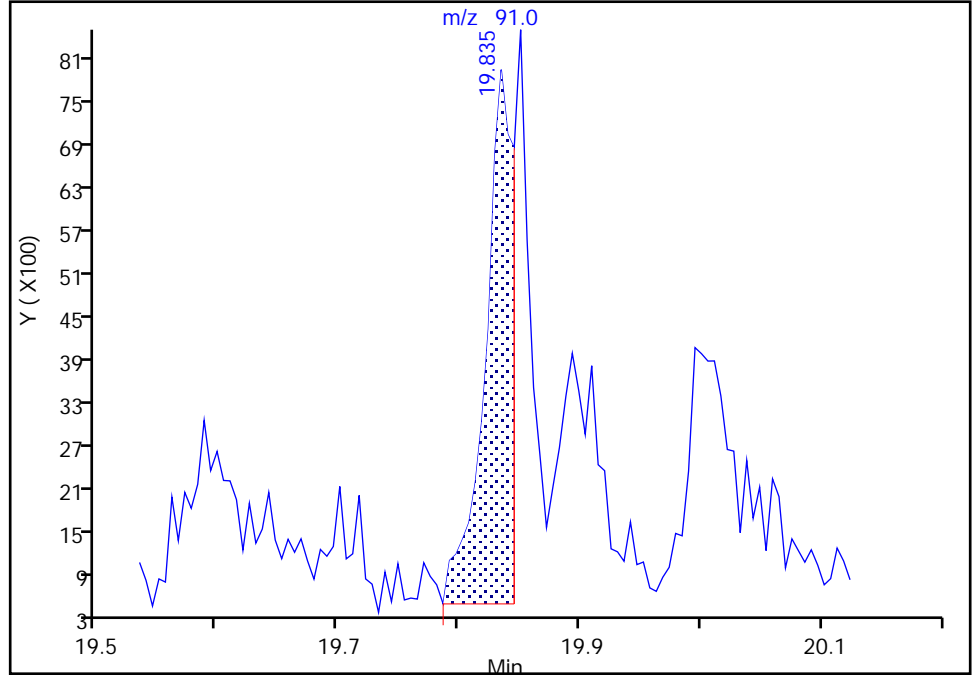
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Signal: 1

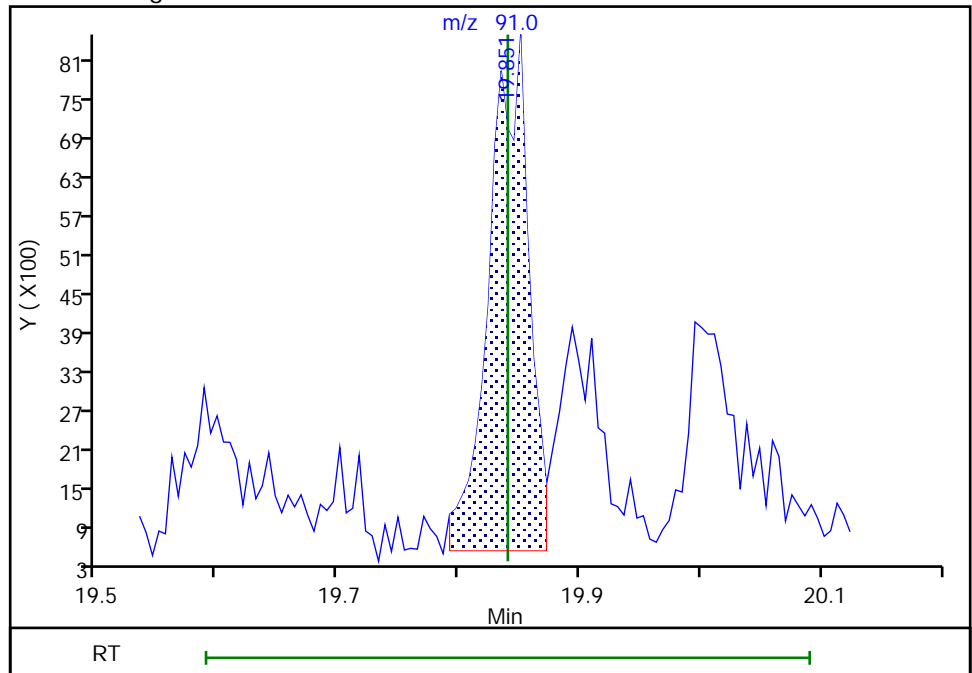
RT: 19.83  
Area: 12199  
Amount: 0.046852  
Amount Units: ppb v/v

Processing Integration Results



RT: 19.85  
Area: 18141  
Amount: 0.069673  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:05:30  
Audit Action: Manually Integrated

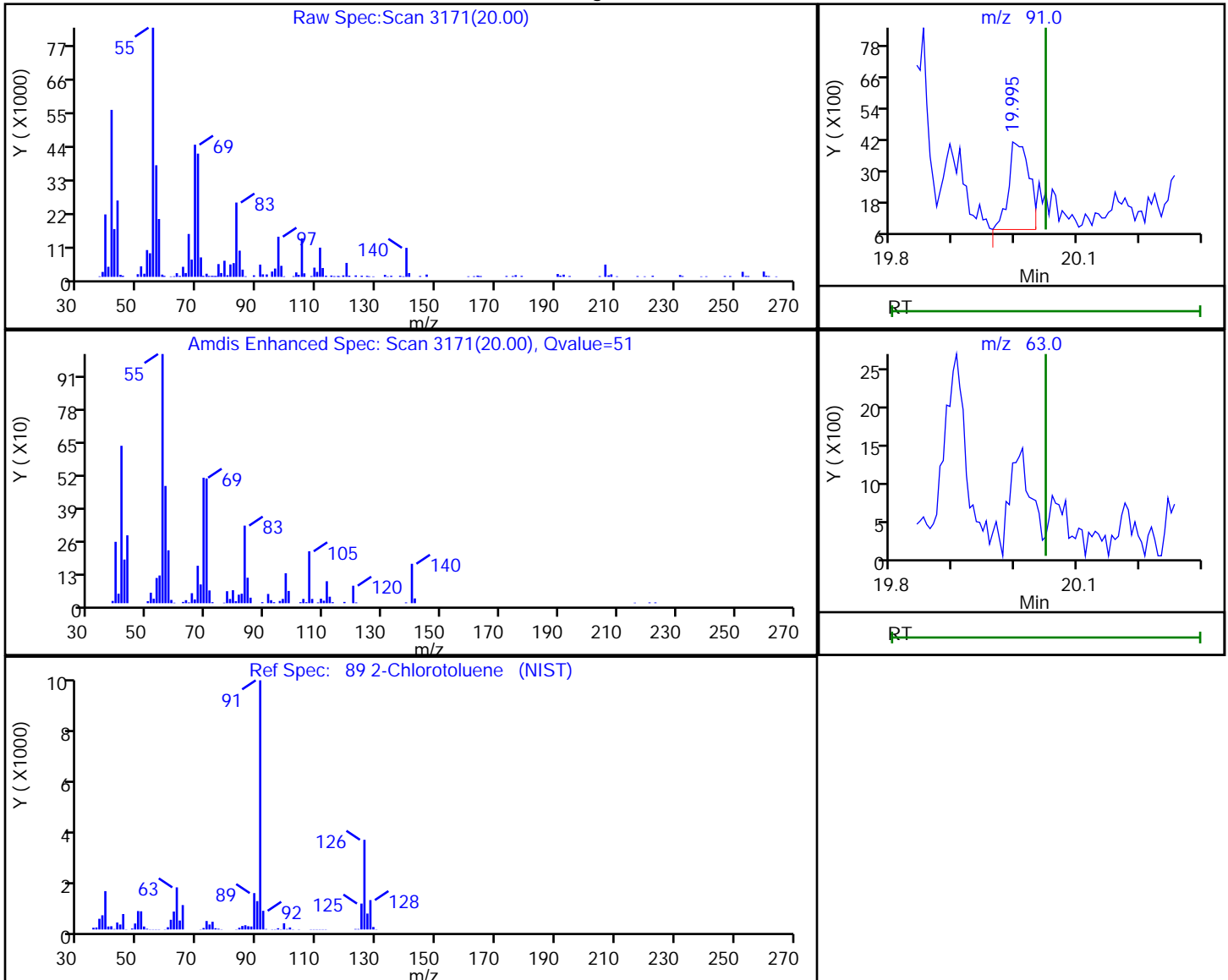
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.00 | 91.00 | 7821     | 0.039773 |
| 20.04 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:33

Audit Action: Marked Compound Undetected

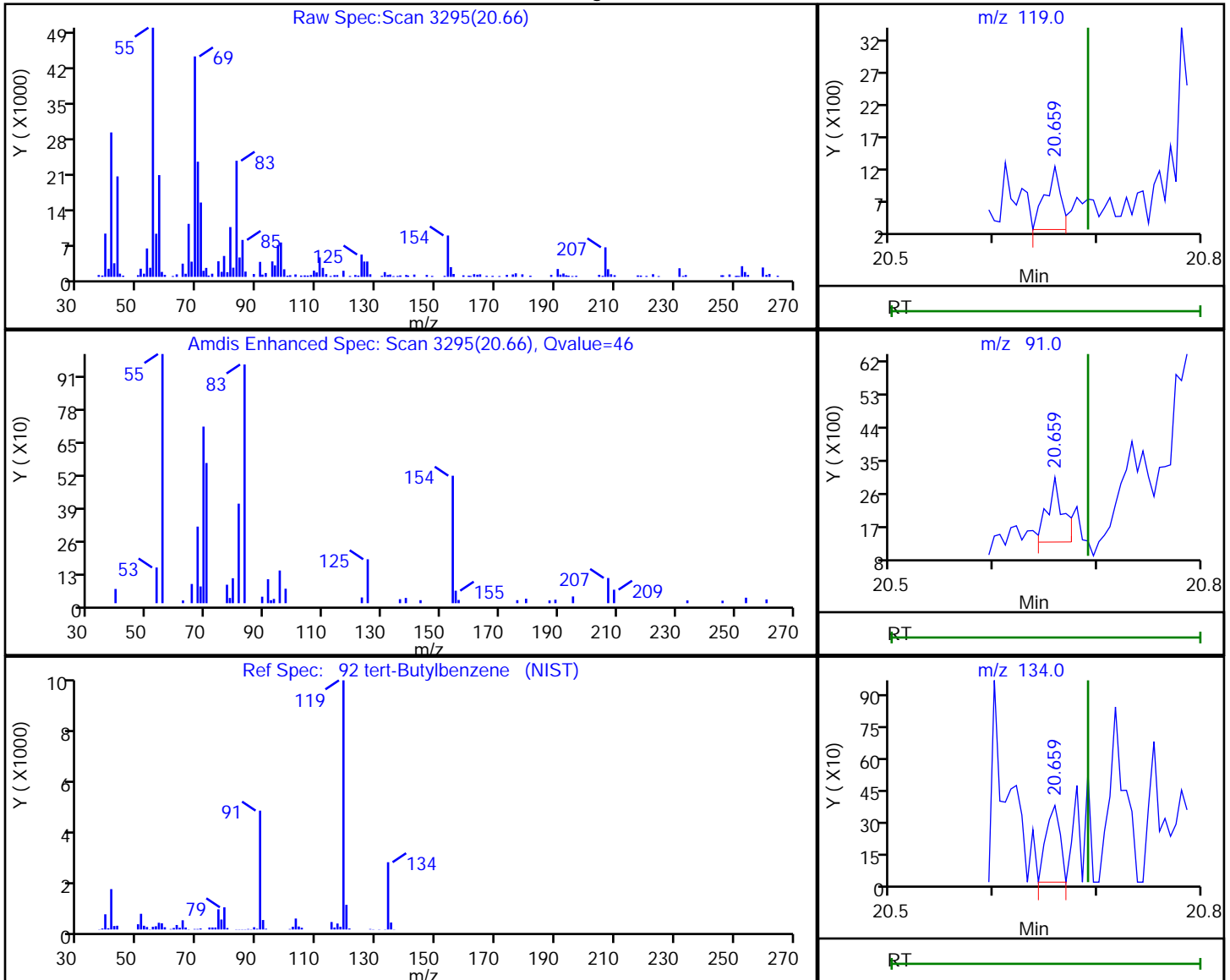
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
Client ID: MP-4\_20181120  
Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.66 | 119.00 | 1035     | 0.005835 |
| 20.66 | 91.00  | 1867     |          |
| 20.66 | 134.00 | 346      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

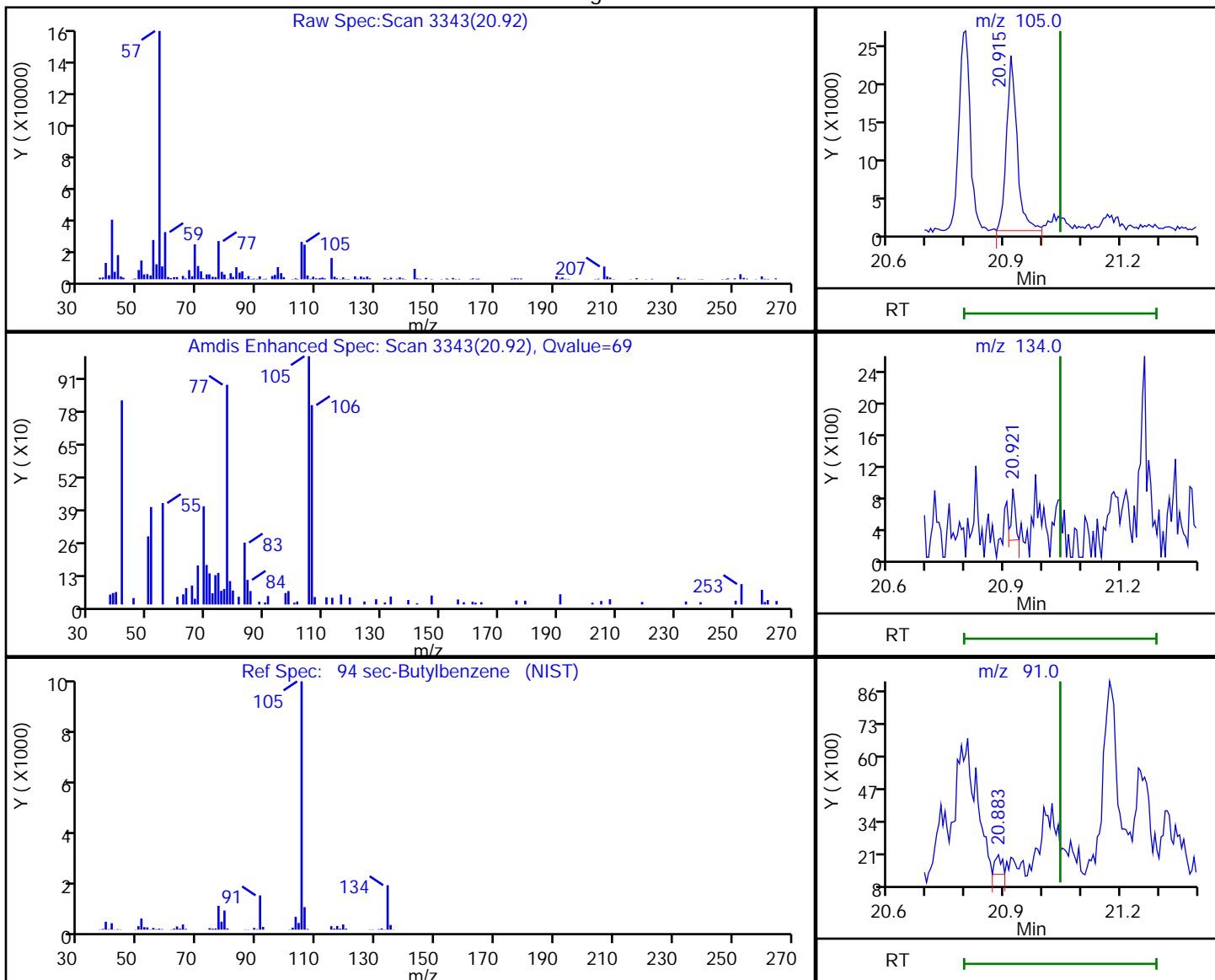


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 44213    | 0.168087 |
| 20.92 | 134.00 | 462      |          |
| 20.88 | 91.00  | 976      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:39

Audit Action: Marked Compound Undetected

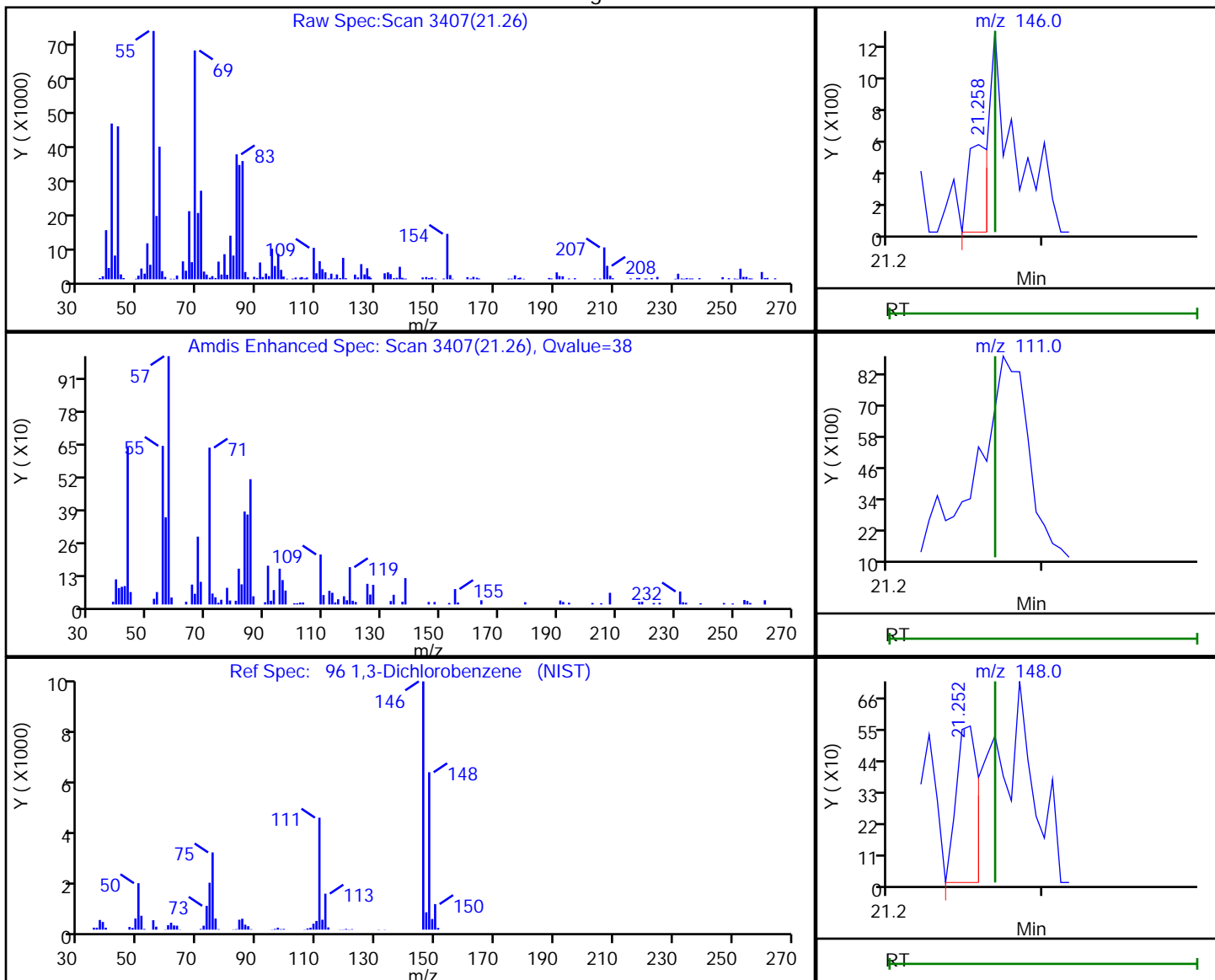
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 146.00 | 496      | 0.003271 |
| 21.27 | 111.00 | 0        |          |
| 21.25 | 148.00 | 543      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:42

Audit Action: Marked Compound Undetected

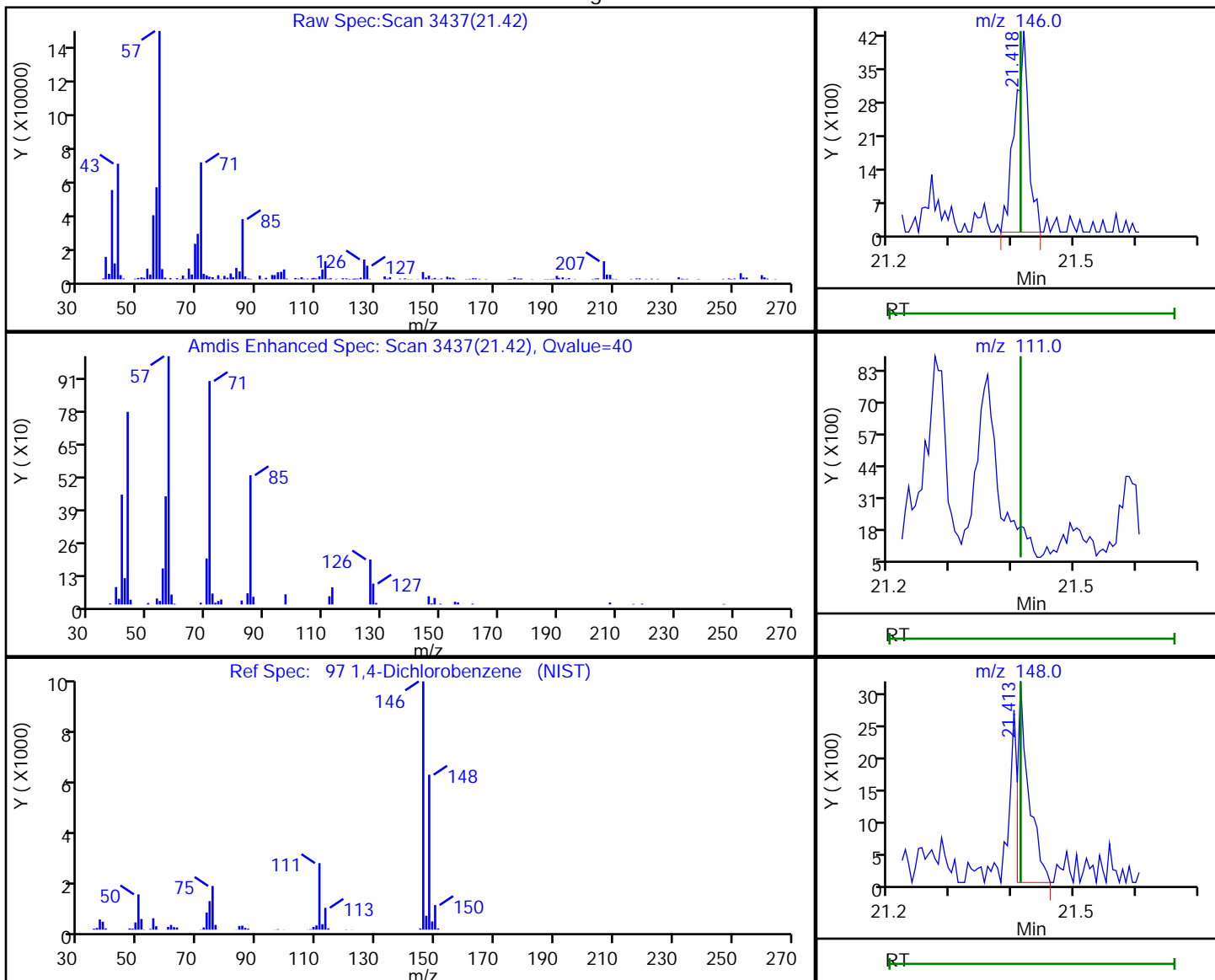
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.42 | 146.00 | 6575     | 0.045344 |
| 21.41 | 111.00 | 0        |          |
| 21.41 | 148.00 | 3937     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:44

Audit Action: Marked Compound Undetected

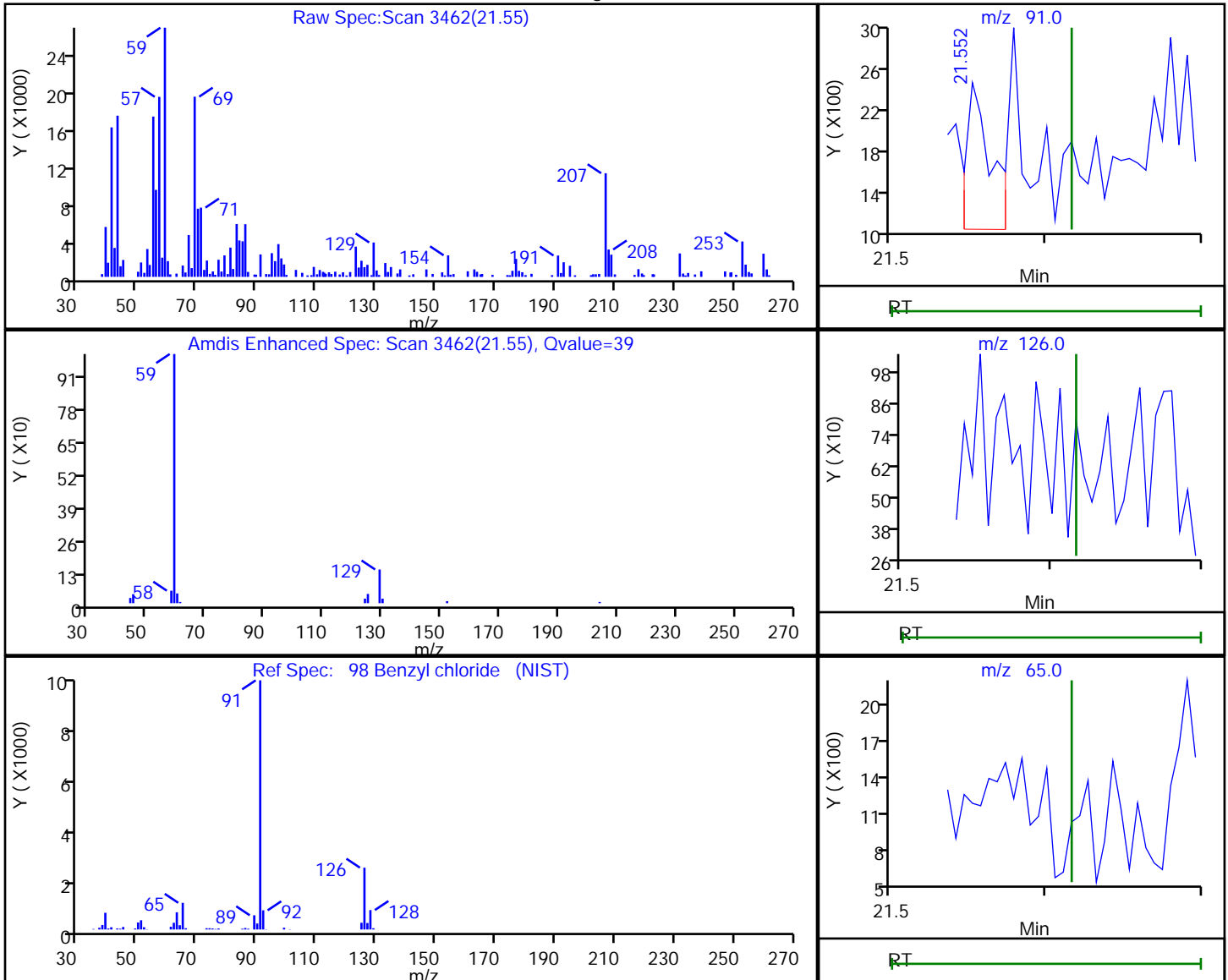
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.55 | 91.00  | 1519     | 0.008486 |
| 21.62 | 126.00 | 0        |          |
| 21.62 | 65.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:45

Audit Action: Marked Compound Undetected

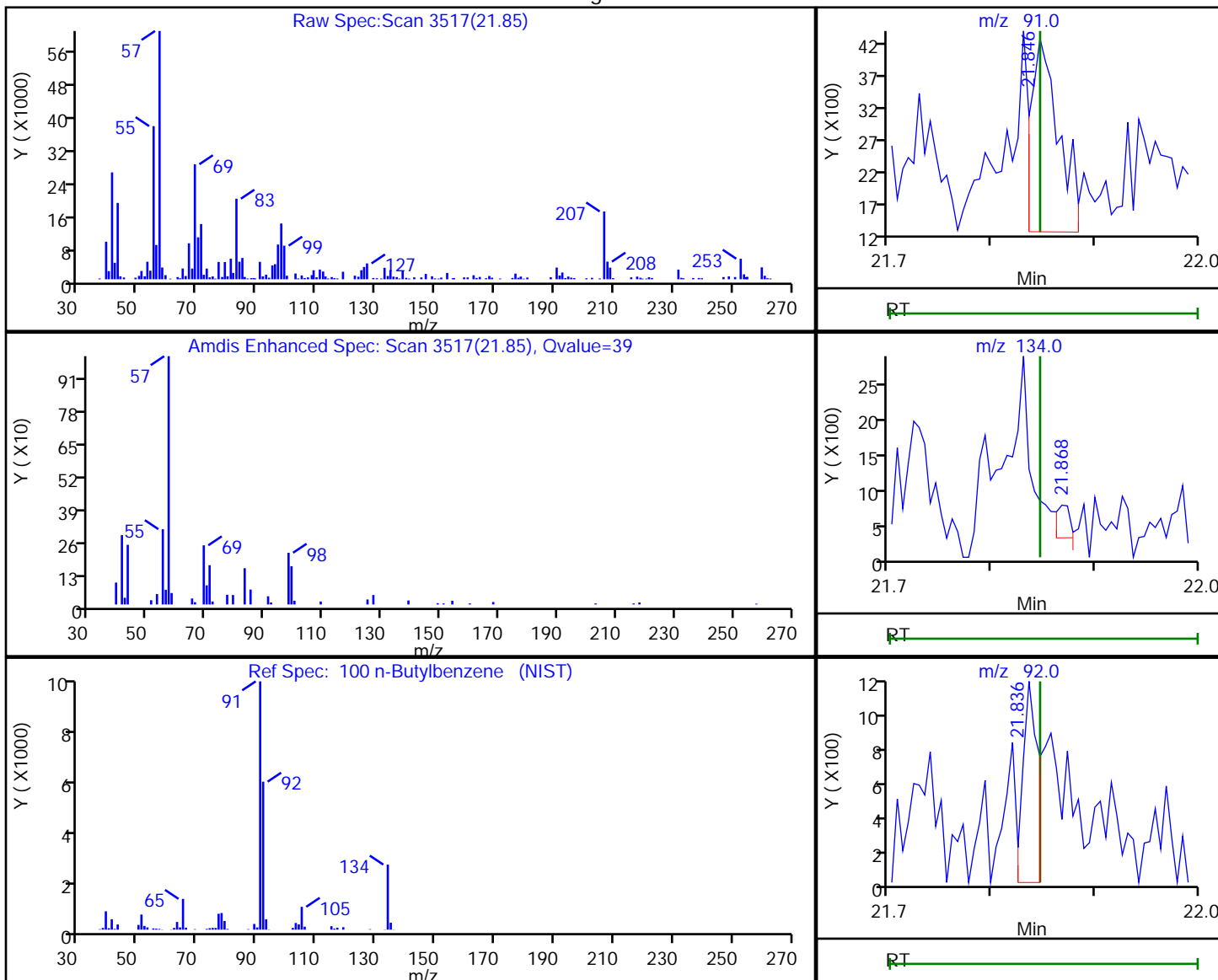
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 5571     | 0.027105 |
| 21.87 | 134.00 | 430      |          |
| 21.84 | 92.00  | 1143     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:47

Audit Action: Marked Compound Undetected

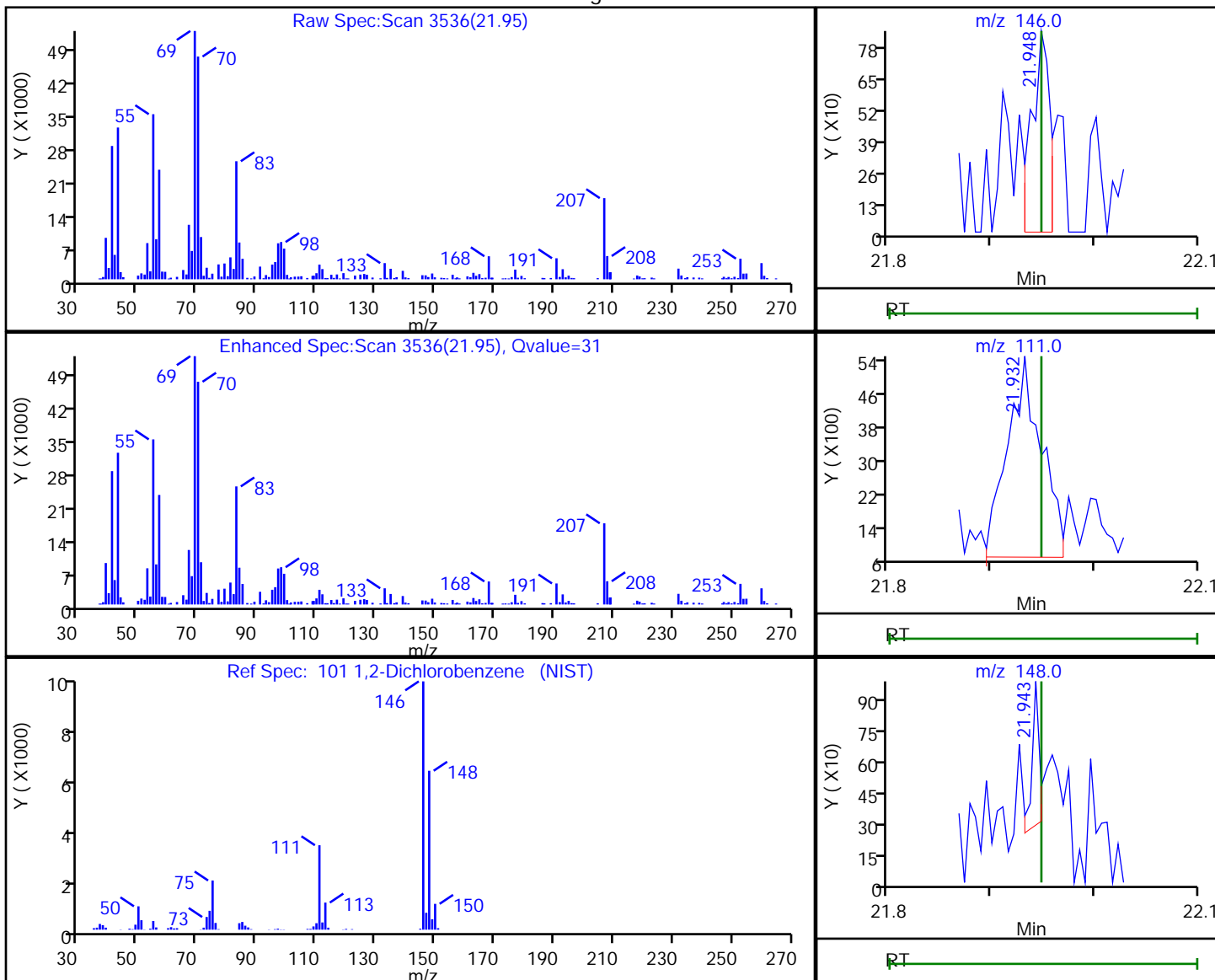
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 1038     | 0.007448 |
| 21.93 | 111.00 | 11236    |          |
| 21.94 | 148.00 | 347      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:48

Audit Action: Marked Compound Undetected

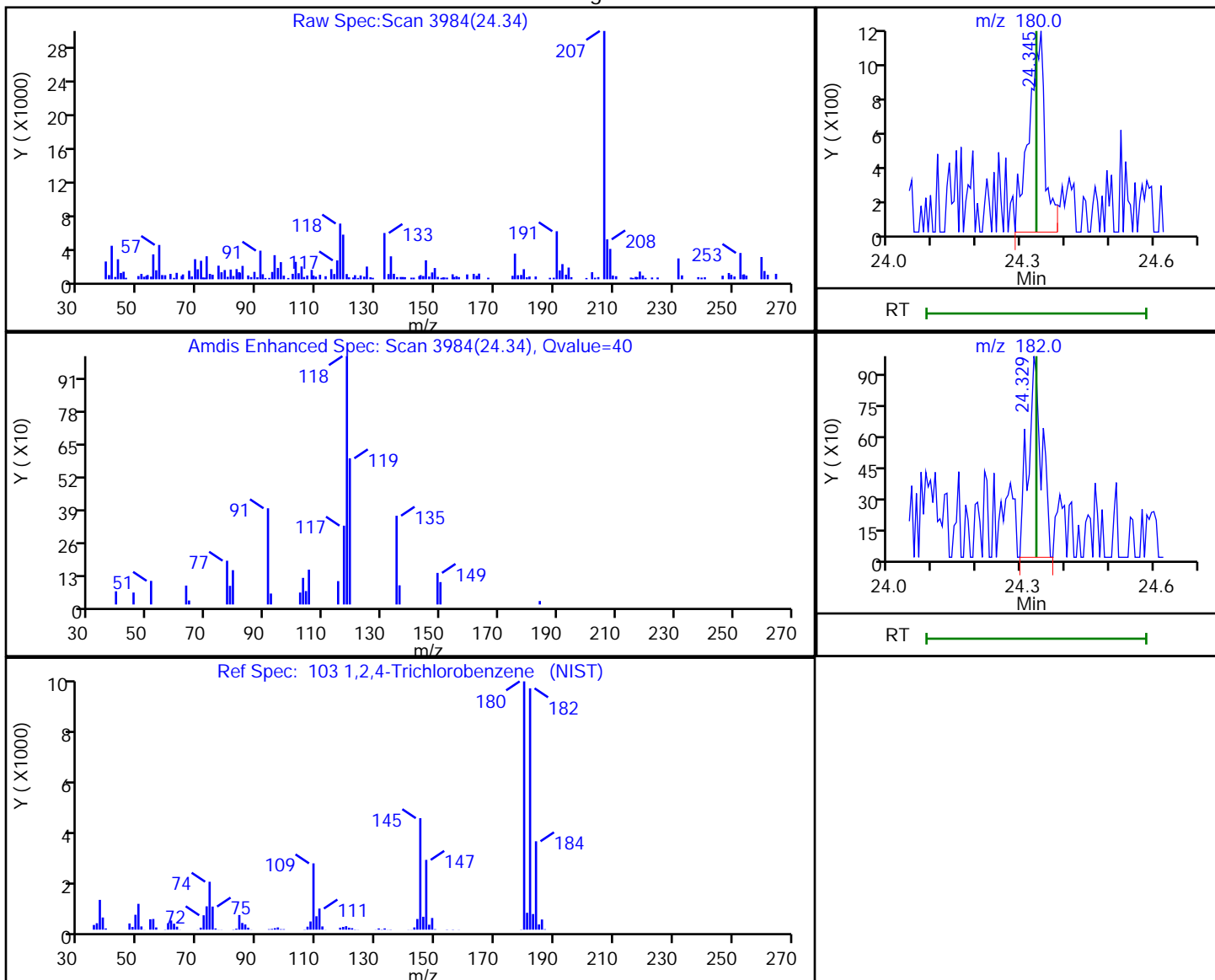
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.34 | 180.00 | 2997     | 0.028612 |
| 24.33 | 182.00 | 2091     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:50

Audit Action: Marked Compound Undetected

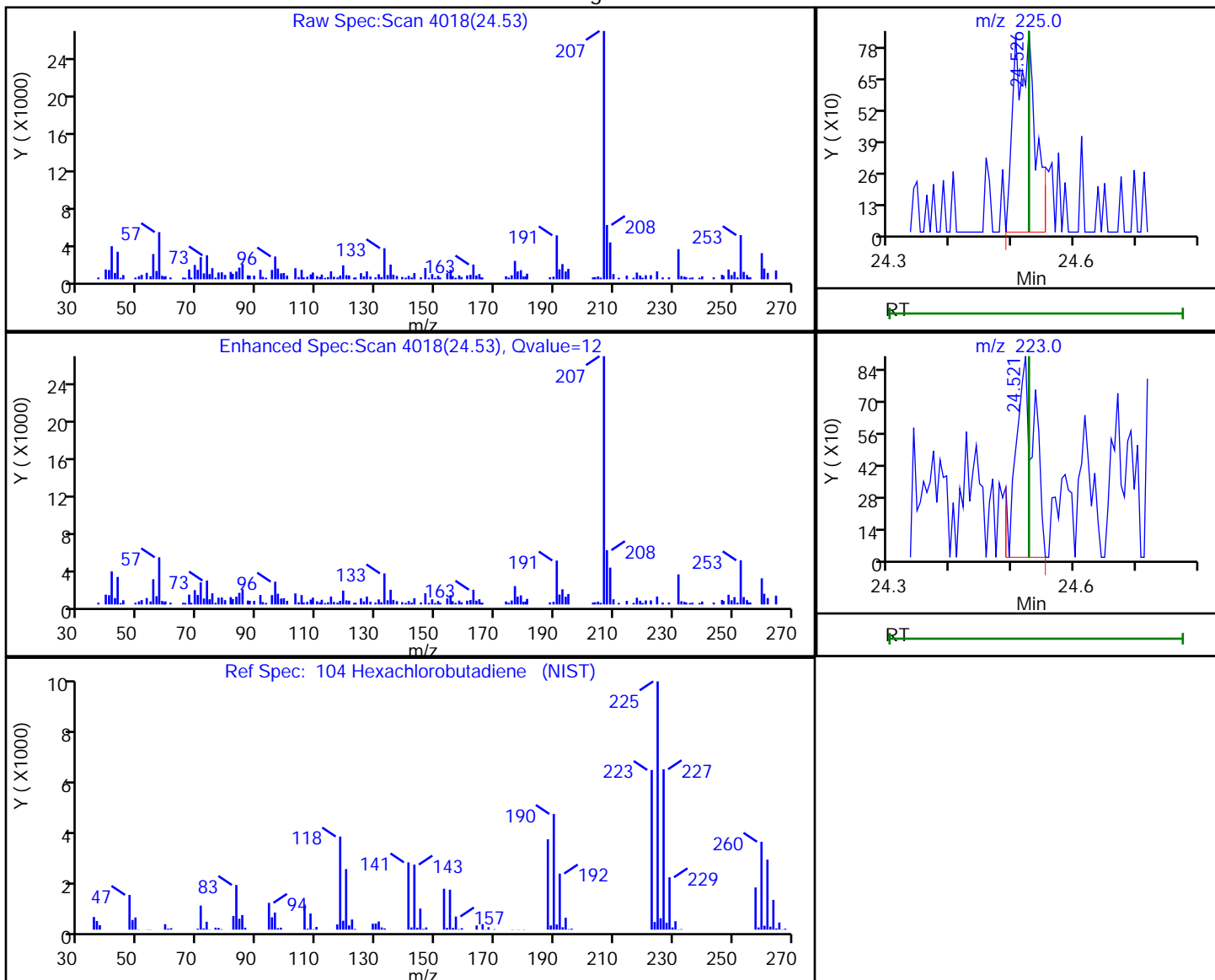
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-012.D  
 Injection Date: 06-Dec-2018 23:23:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-10 Lab Sample ID: 200-46353-10  
 Client ID: MP-4\_20181120  
 Operator ID: ert ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 1942     | 0.018638 |
| 24.52 | 223.00 | 1873     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:05:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.62   |   | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 2.1    |   | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.39   |   | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 17     |   | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 2.4    |   | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.43   |   | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 6.9    |   | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.21   |   | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.32   |   | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.094  |   | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.40   |   | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200(mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-------------|--|------------------|--------|---|-------|--|
| 142-82-5    | n-Heptane  | 100.21           | 0.61   |   | 0.20  |  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |  |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.86   |   | 0.50  |  |
| 108-88-3    | Toluene  | 92.14            | 1.1    |   | 0.20  |  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.36   |   | 0.20  |  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.34   |   | 0.20  |  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.76   |   | 0.50  |  |
| 95-47-6     | o-Xylene   | 106.17           | 0.22   |   | 0.20  |  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200(mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 3.1    |   | 2.5  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 2.3    |   | 1.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1    |   | 1.2  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 2.2    |   | 1.1  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 41     |   | 12   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 7.5    |   | 1.6  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 1.5    |   | 0.70 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 20     |   | 1.5  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 1.0    |   | 0.98 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.1    |   | 0.69 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.59   |   | 0.22 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |  |
| 71-43-2   | Benzene                          | 78.11            | 1.3    |   | 0.64 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200(mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 2.5    |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 3.5    |   | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 4.3    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 2.4    |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.5    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 3.3    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.94   |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Lims ID: 200-46353-A-11  
 Client ID: MP-5\_20181119  
 Sample Type: Client  
 Inject. Date: 07-Dec-2018 00:13:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-013  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 17:08:41 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: puangmaleek

Date: 07-Dec-2018 17:08:41

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|----|----------|-------------------|-------|
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.149         | -0.005         | 95 | 116218   | 0.6201            |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |                |    |          | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.336     | 3.347         | -0.011         | 94 | 9671     | 0.0686            |       |
| 5 Chloromethane               | 50  | 3.454     | 3.460         | -0.005         | 98 | 40885    | 1.12              |       |
| 6 Butane                      | 43  | 3.599     | 3.600         | -0.005         | 98 | 105360   | 2.15              |       |
| 7 Vinyl chloride              | 62  |           | 3.641         |                |    |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.695         |                |    |          | ND                | U     |
| 10 Bromomethane               | 94  | 4.214     | 4.208         | 0.006          | 36 | 2744     | 0.0541            |       |
| 11 Chloroethane               | 64  |           | 4.380         |                |    |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.685         |                |    |          | ND                | U     |
| 14 Trichlorofluoromethane     | 101 | 4.754     | 4.759         | -0.005         | 98 | 57756    | 0.3899            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610     | 5.605         | 0.005          | 92 | 7448     | 0.0714            |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |    |          | ND                | U     |
| 22 Acetone                    | 43  | 5.851     | 5.856         | -0.005         | 99 | 680883   | 17.4              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006         | 99 | 285043   | 2.41              |       |
| 24 Isopropyl alcohol          | 45  | 6.102     | 6.084         | 0.010          | 99 | 82830    | 1.92              |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.306         |                |    |          | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.552     | 6.546         | -0.005         | 93 | 7513     | 0.1813            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.792     | 6.758         | 0.026          | 94 | 63010    | 0.9536            |       |
| 29 Methyl tert-butyl ether    | 73  | 6.964     | 6.937         | 0.027          | 32 | 2980     | 0.0334            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000          | 57 | 1961     | 0.0352            | M     |
| 33 Hexane                     | 57  | 7.285     | 7.290         | -0.006         | 89 | 19279    | 0.4347            |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.723         |                |    |          | ND                | U     |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.729         |                |    |          | ND                | U     |
| 38 2-Butanone (MEK)           | 72  | 8.788     | 8.820         | 0.000          | 99 | 97304    | 6.93              |       |
| * 40 Chlorobromomethane       | 128 | 9.146     | 9.157         | -0.011         | 73 | 502379   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.205         |                |    |          | ND                | U     |
| 42 Chloroform                 | 83  | 9.269     | 9.264         | 0.000          | 96 | 22133    | 0.2109            |       |
| 43 Cyclohexane                | 84  | 9.521     | 9.526         | -0.010         | 93 | 14582    | 0.3187            |       |
| 44 1,1,1-Trichloroethane      | 97  |           | 9.542         |                |    |          | ND                | U     |
| 45 Carbon tetrachloride       | 117 | 9.783     | 9.767         | 0.000          | 85 | 11128    | 0.0940            |       |
| 46 Isooctane                  | 57  | 10.179    | 10.195        | -0.021         | 88 | 19542    | 0.1291            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 47 Benzene                     | 78  | 10.211    | 10.211        | -0.005        | 95 | 42488    | 0.4003            |       |
| 48 1,2-Dichloroethane          | 62  | 10.366    | 10.377        | -0.016        | 59 | 4786     | 0.0780            |       |
| 49 n-Heptane                   | 43  | 10.564    | 10.537        | -0.005        | 92 | 33153    | 0.6071            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.008    | 11.019        | -0.011        | 93 | 1993319  | 10.0              |       |
| 53 Trichloroethene             | 95  | 11.473    | 11.473        | -0.011        | 27 | 1286     | 0.0185            | M     |
| 54 1,2-Dichloropropane         | 63  |           | 12.019        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.201        |               |    |          | ND                |       |
| 56 1,4-Dioxane                 | 88  | 12.324    | 12.324        | 0.043         | 61 | 9176     | 0.4703            | M     |
| 58 Dichlorobromomethane        | 83  |           | 12.554        |               |    |          | ND                | U     |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.474        |               |    |          | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.800    | 13.795        | 0.010         | 96 | 59028    | 0.8552            |       |
| 65 Toluene                     | 92  | 14.052    | 14.063        | -0.011        | 95 | 97164    | 1.15              |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.656        |               |    |          | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.026        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.143        | 0.000         | 95 | 36227    | 0.3567            |       |
| 69 2-Hexanone                  | 43  |           | 15.507        |               |    |          | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.042        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957        | -0.006        | 84 | 2094054  | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016        |               |    |          | ND                | U     |
| 76 Ethylbenzene                | 91  | 17.176    | 17.176        | -0.005        | 98 | 64153    | 0.3359            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.428    | 17.428        | -0.010        | 0  | 59112    | 0.7634            | M     |
| 79 o-Xylene                    | 106 | 18.278    | 18.289        | -0.005        | 97 | 15914    | 0.2163            |       |
| 80 Styrene                     | 104 |           | 18.342        |               |    |          | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781        |               |    |          | ND                | U     |
| 82 Isopropylbenzene            | 105 |           | 19.043        |               |    |          | ND                | U     |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765        |               |    |          | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.840        |               |    |          | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.049        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.054        |               |    |          | ND                | U     |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 20.172        |               |    |          | ND                | U     |
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.787    | 20.798        | -0.011        | 58 | 6058     | 0.0329            |       |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.263        |               |    |          | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 |           | 21.269        |               |    |          | ND                | U     |
| 97 1,4-Dichlorobenzene         | 146 |           | 21.413        |               |    |          | ND                | U     |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.846        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.948        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 24.334        |               |    |          | ND                | U     |
| 104 Hexachlorobutadiene        | 225 |           | 24.527        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 |           | 24.773        |               |    |          | ND                | U     |



### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Worklist Smp#: 13

Client ID: MP-5\_20181119

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

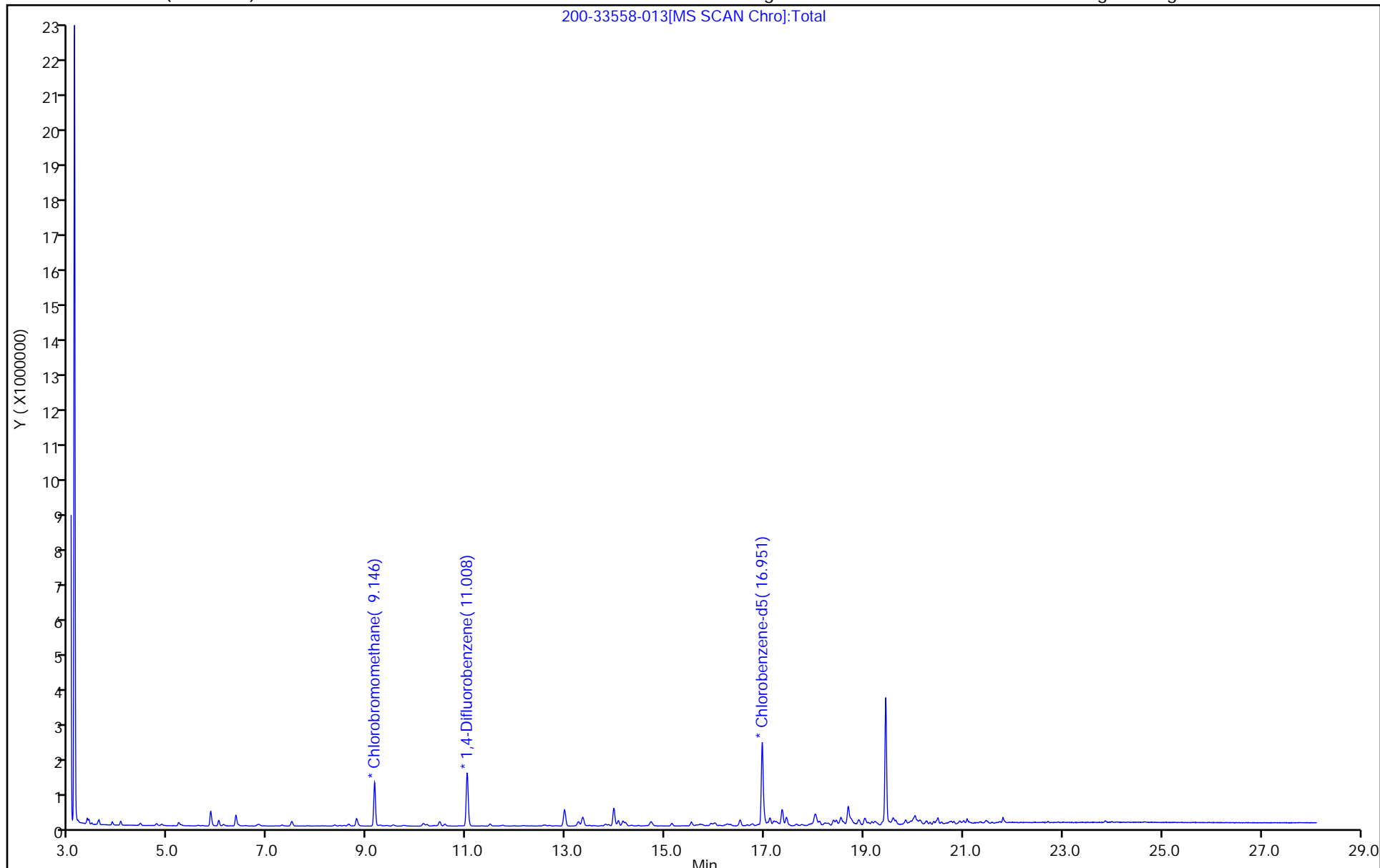
ALS Bottle#: 13

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

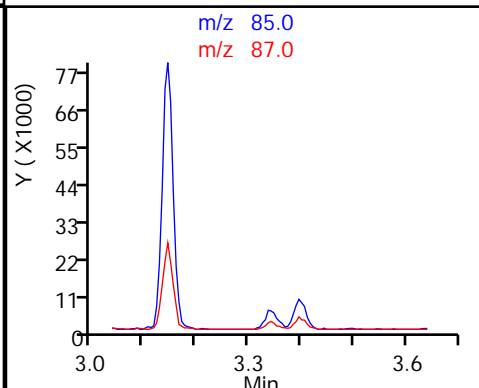
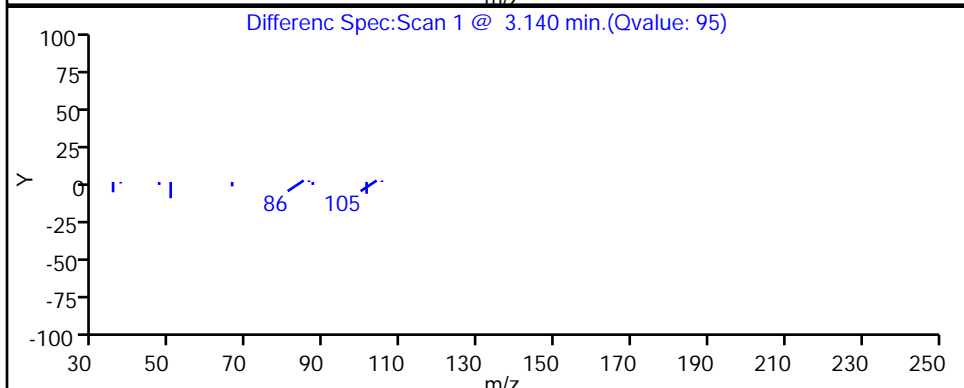
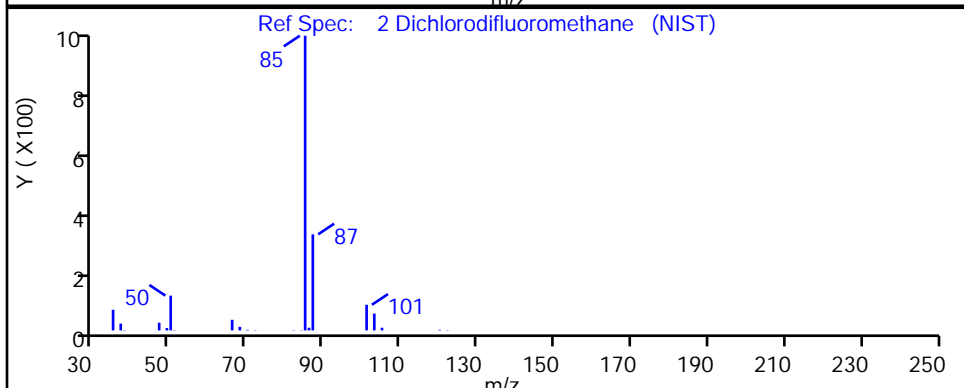
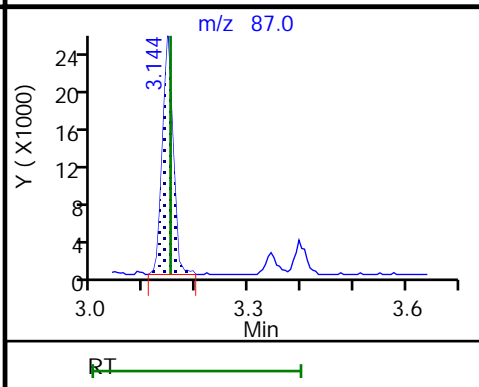
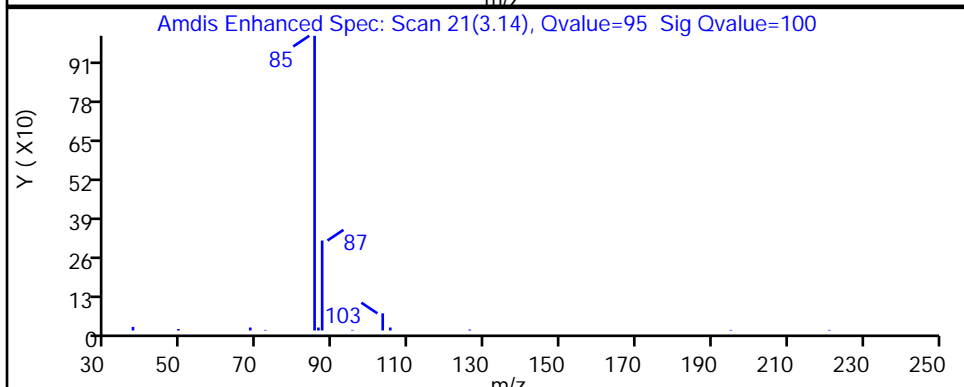
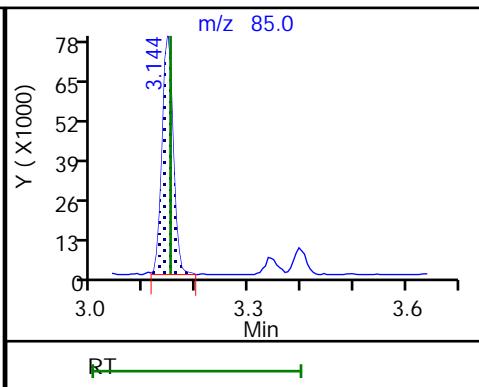
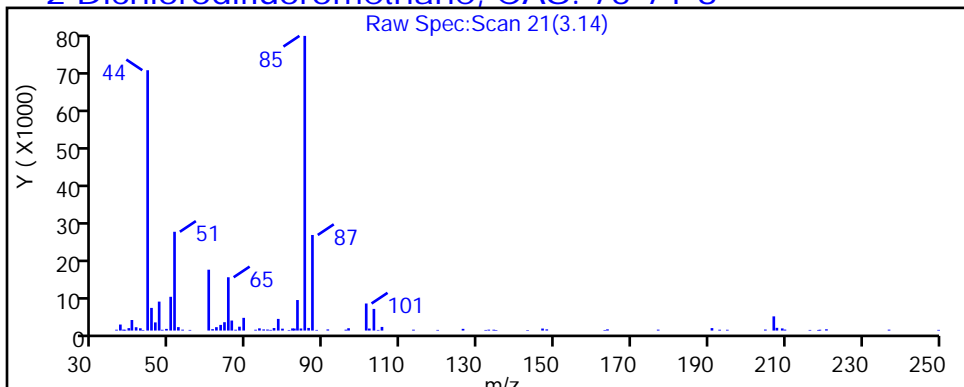
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

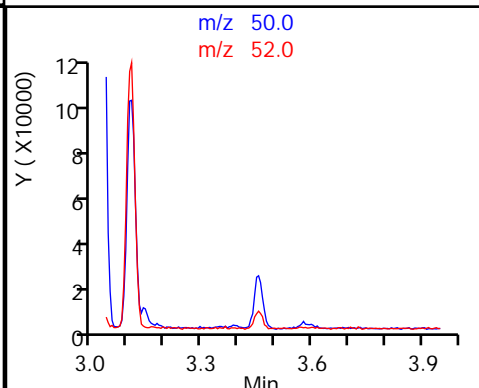
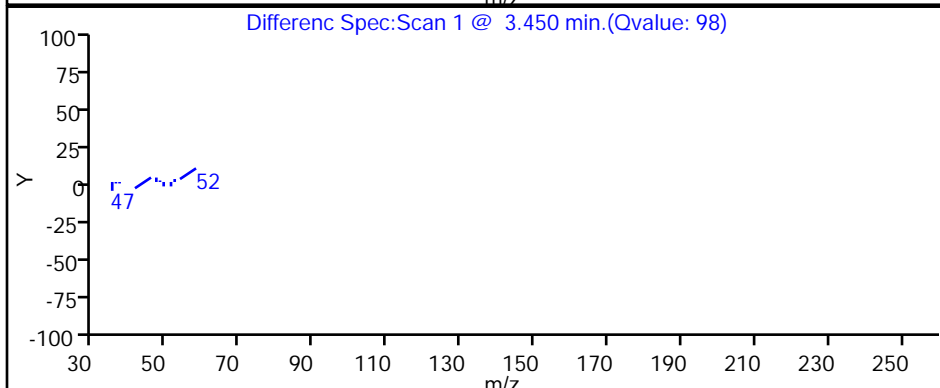
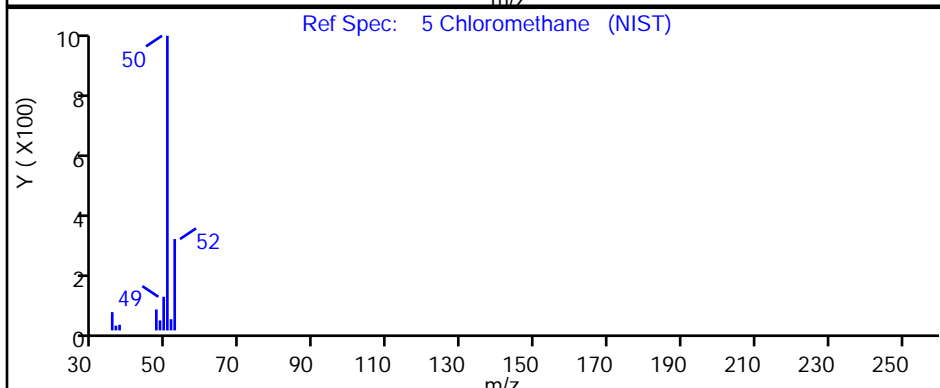
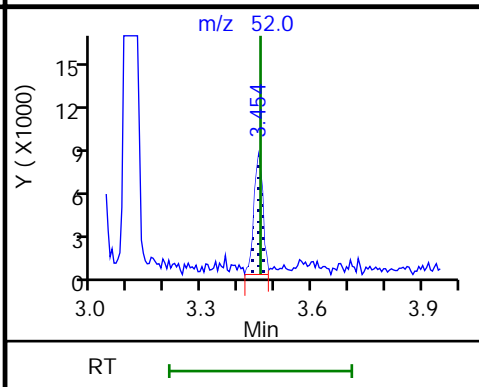
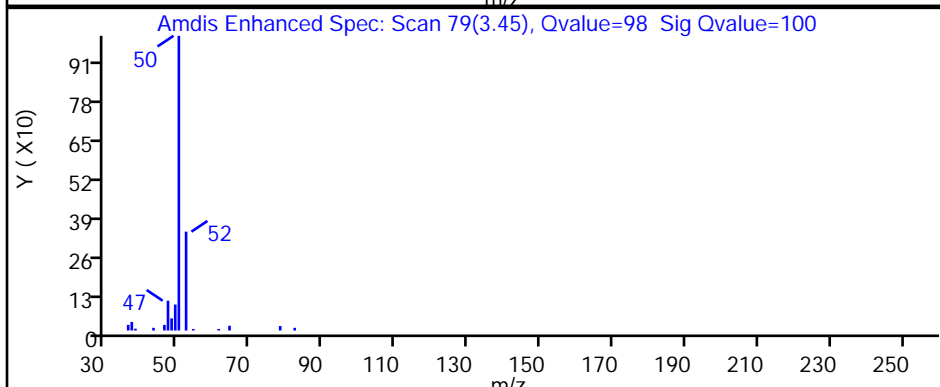
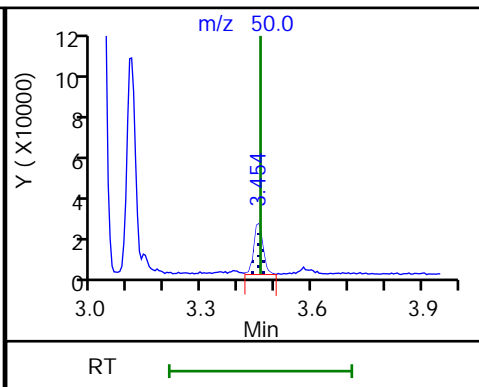
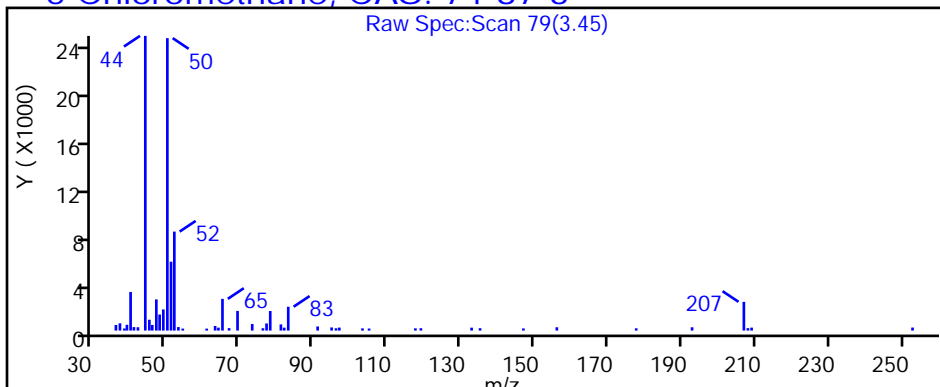
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

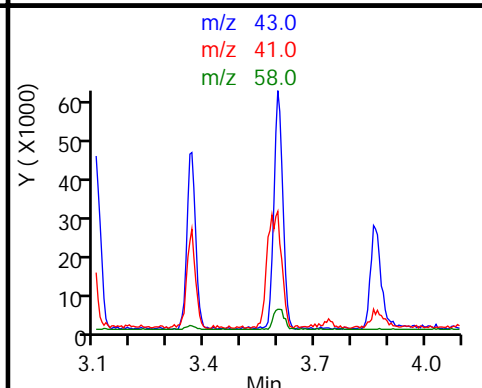
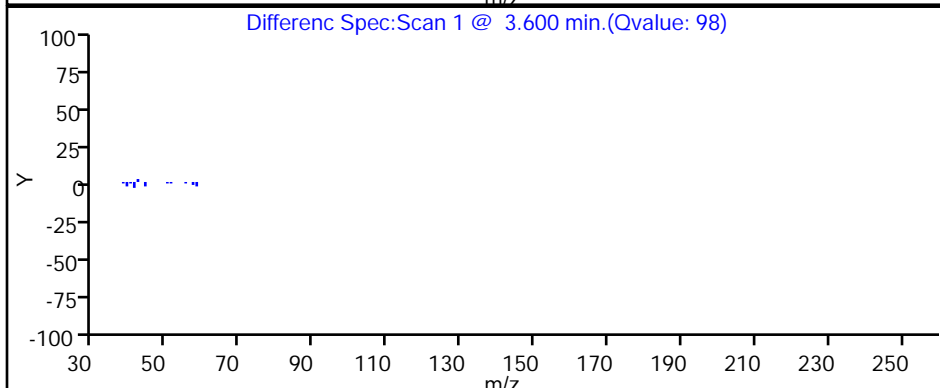
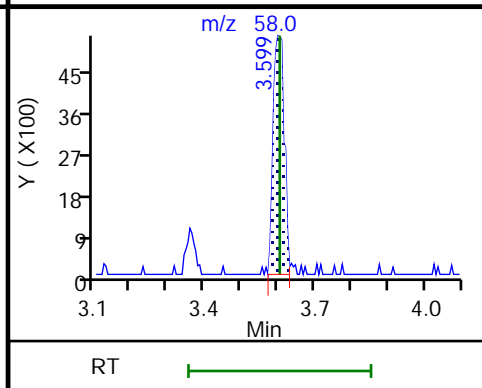
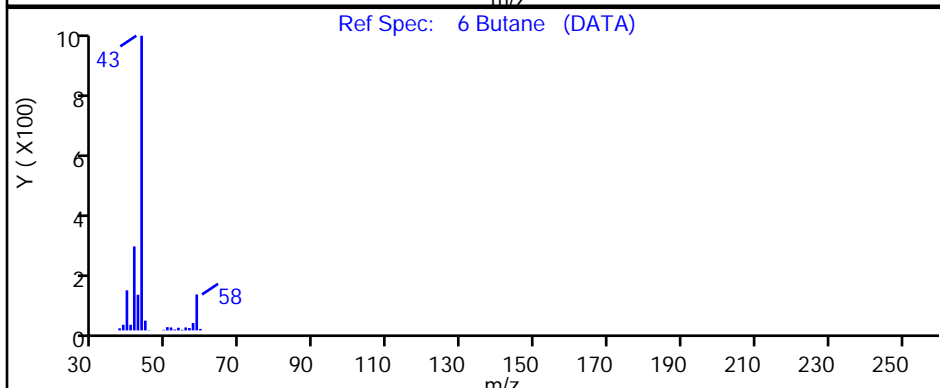
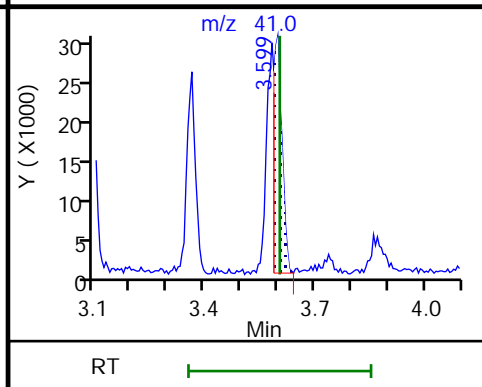
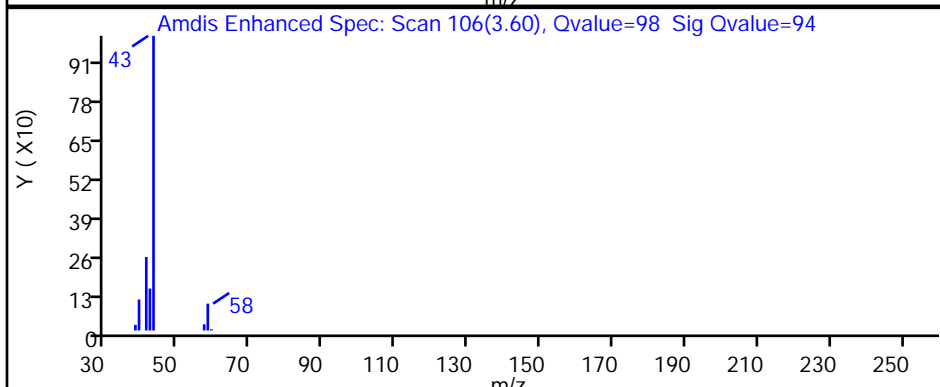
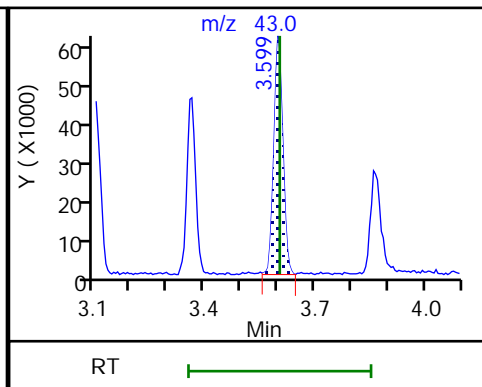
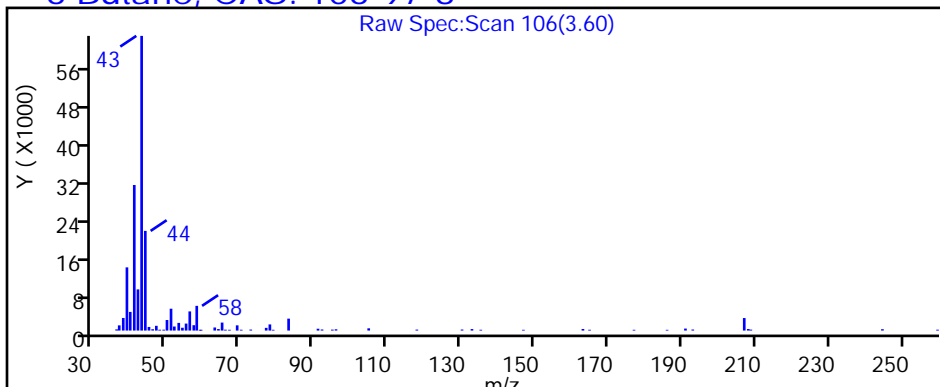
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

6 Butane, CAS: 106-97-8



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

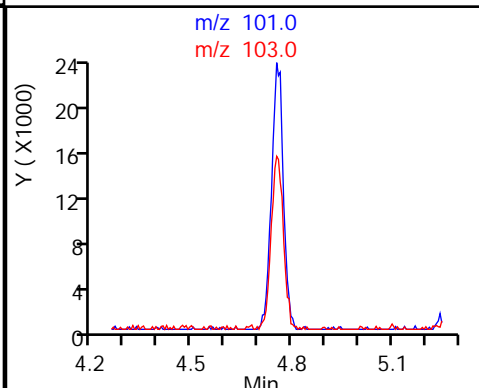
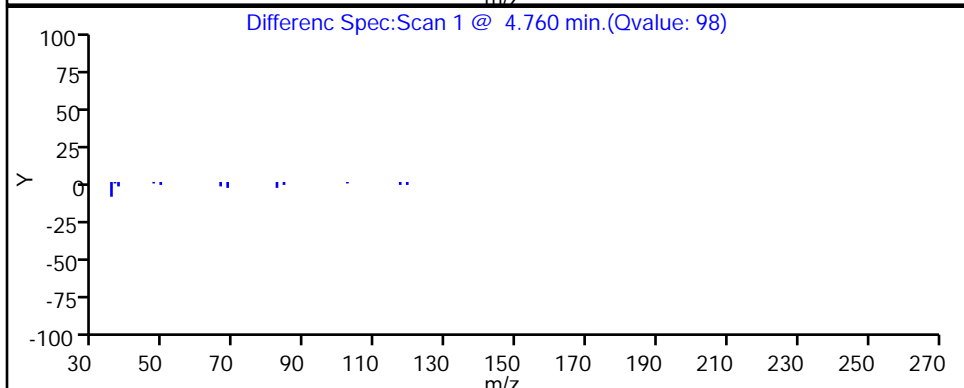
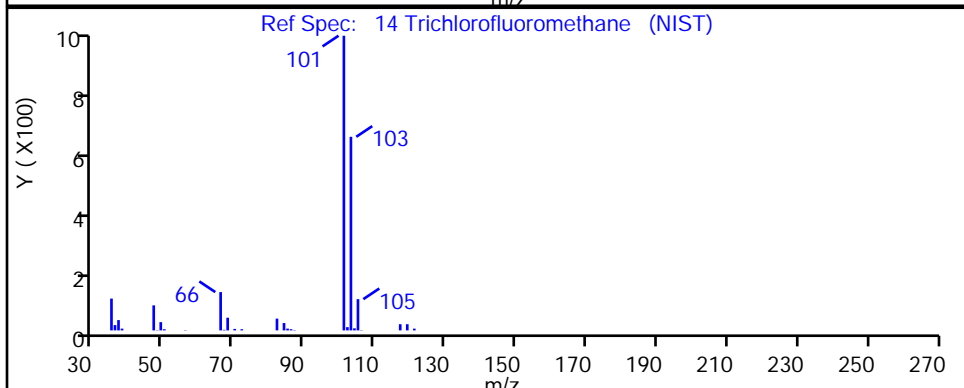
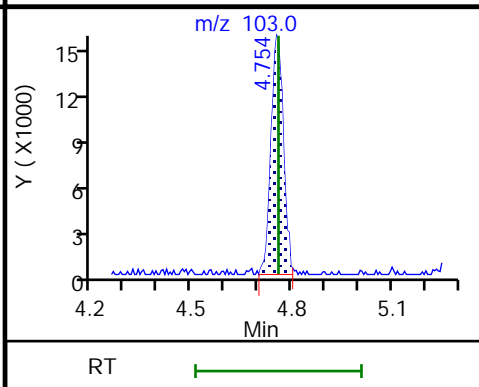
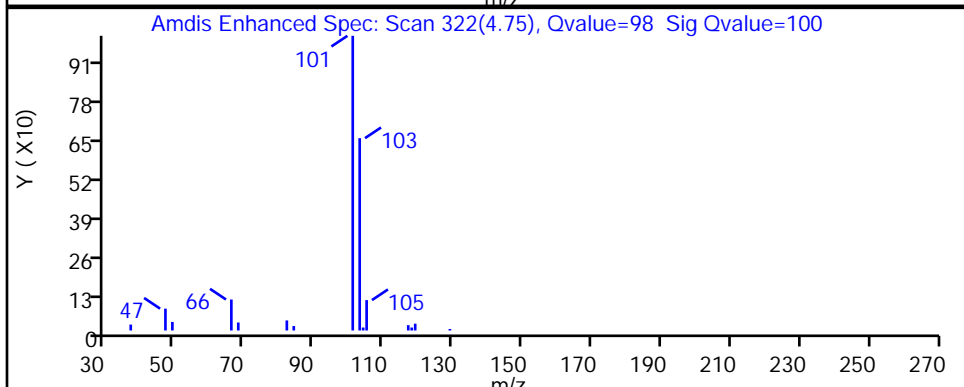
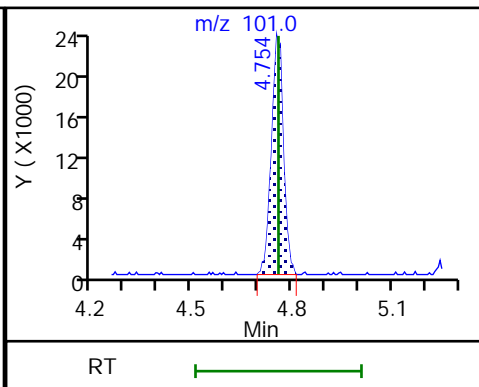
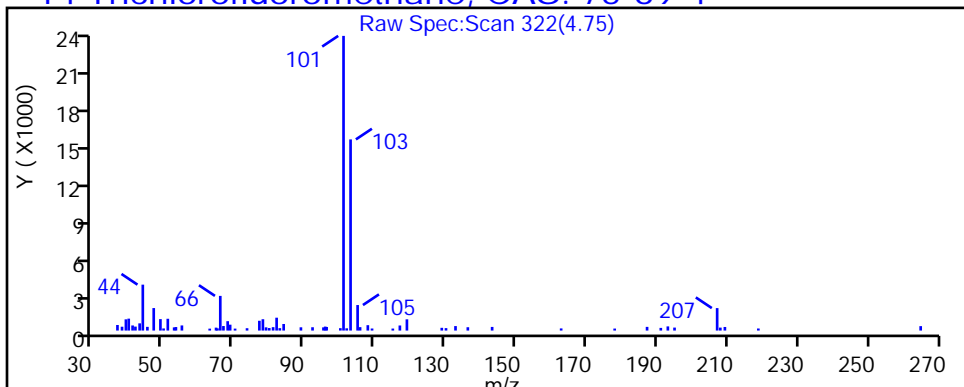
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

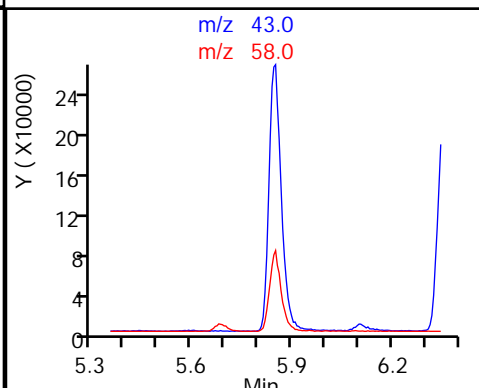
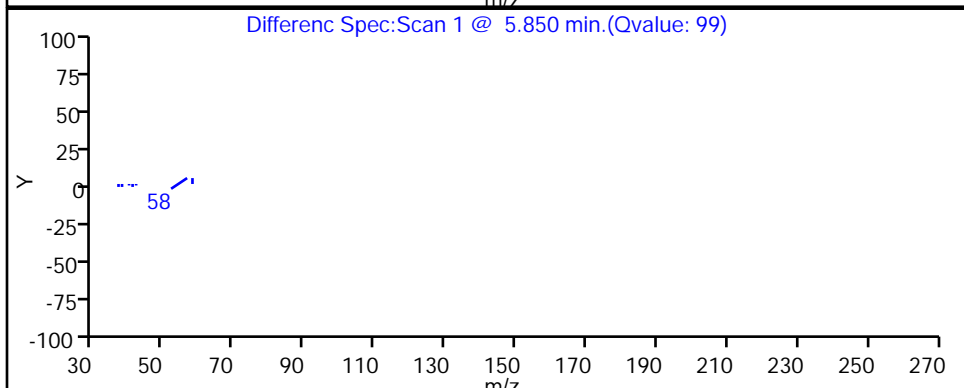
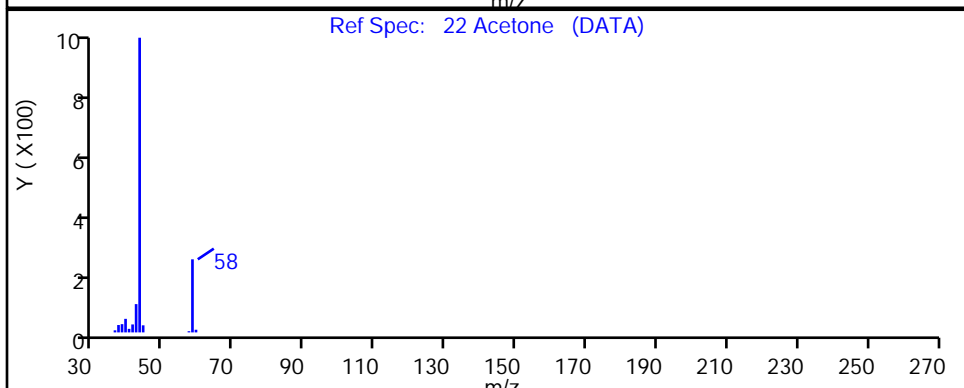
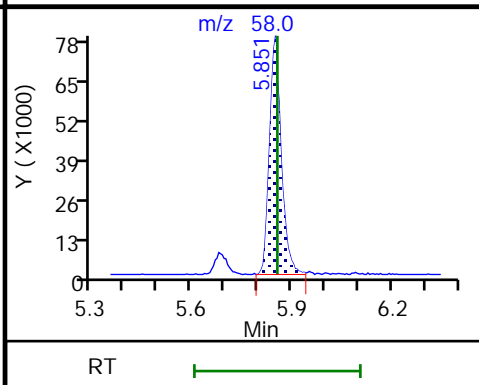
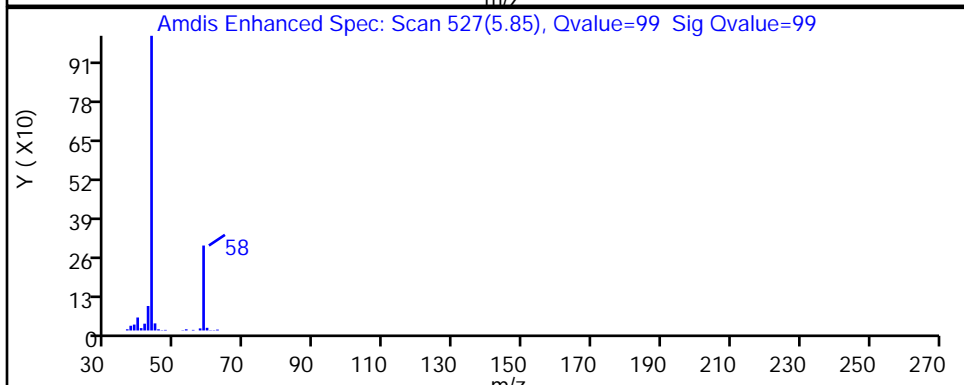
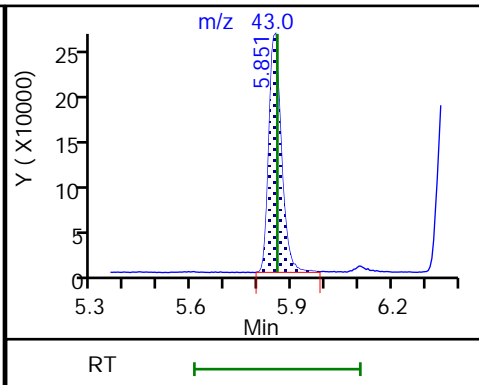
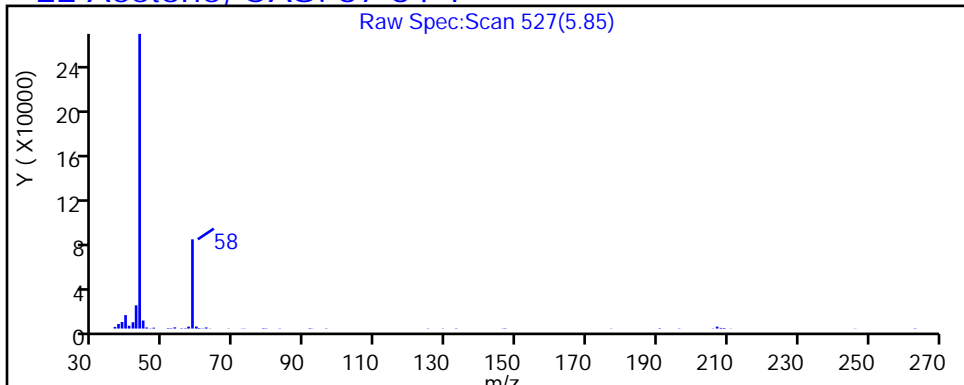
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

22 Acetone, CAS: 67-64-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

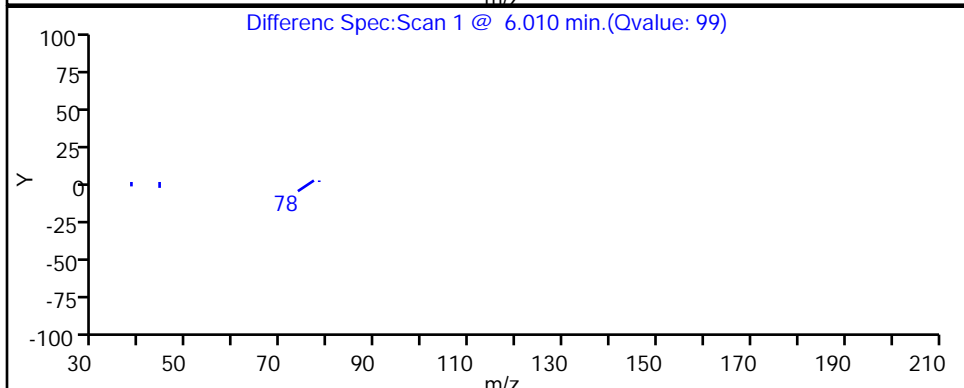
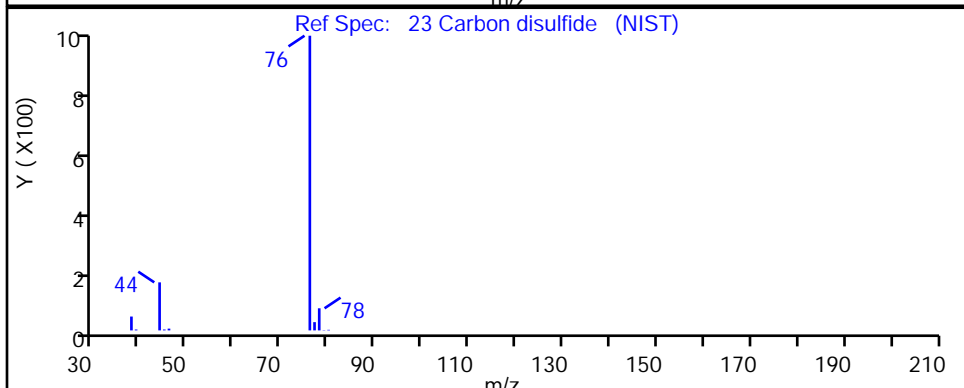
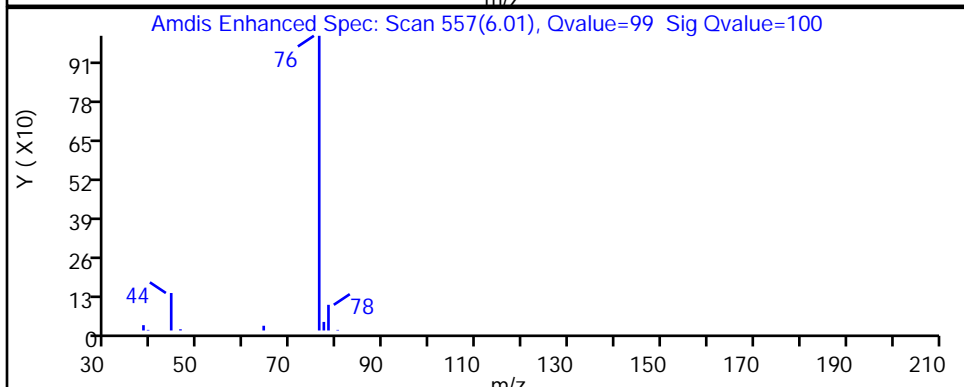
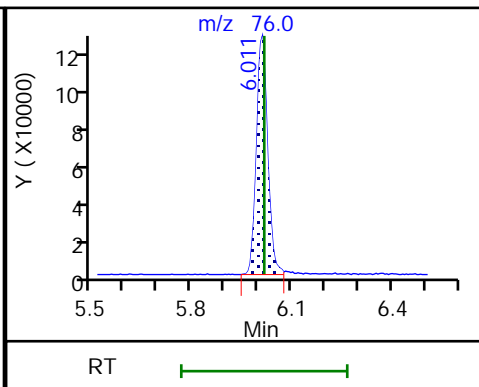
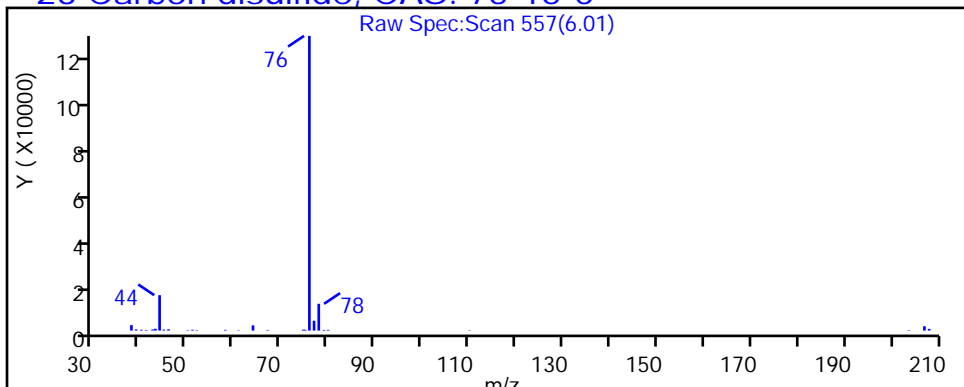
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

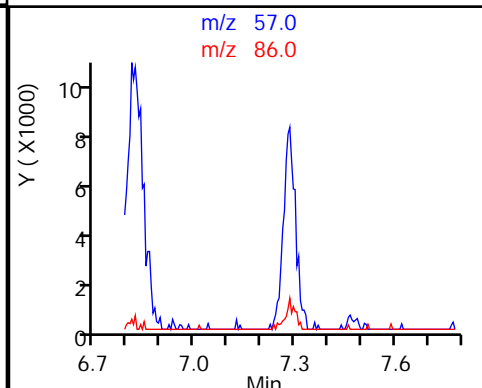
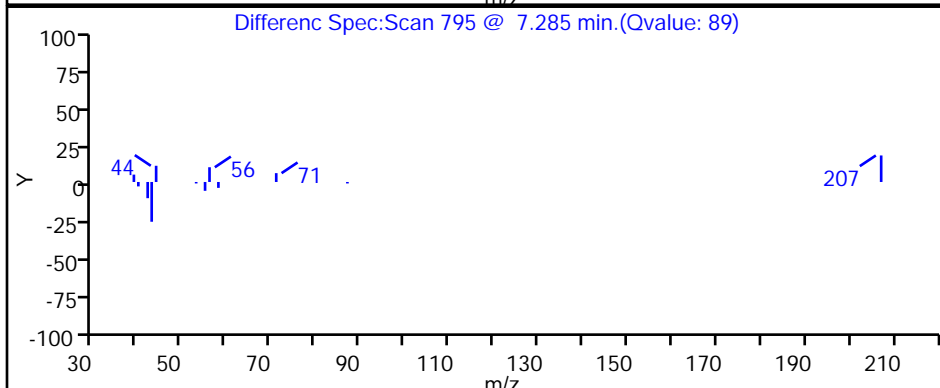
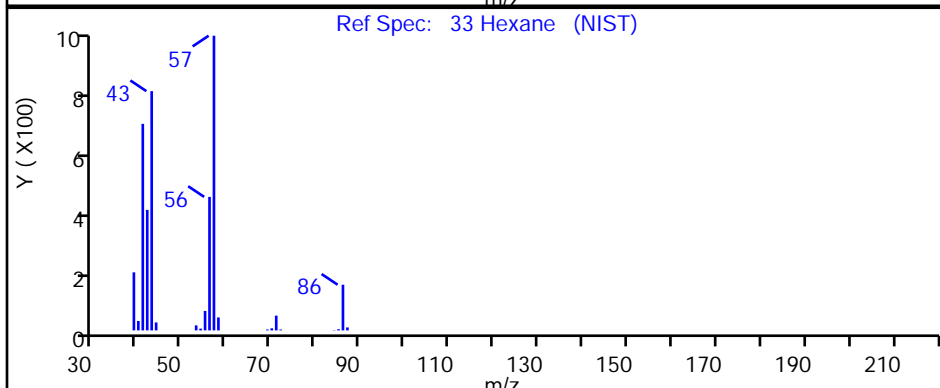
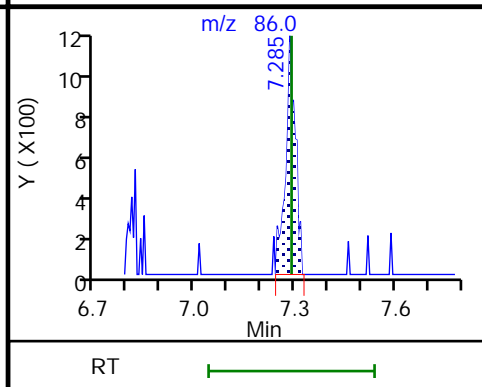
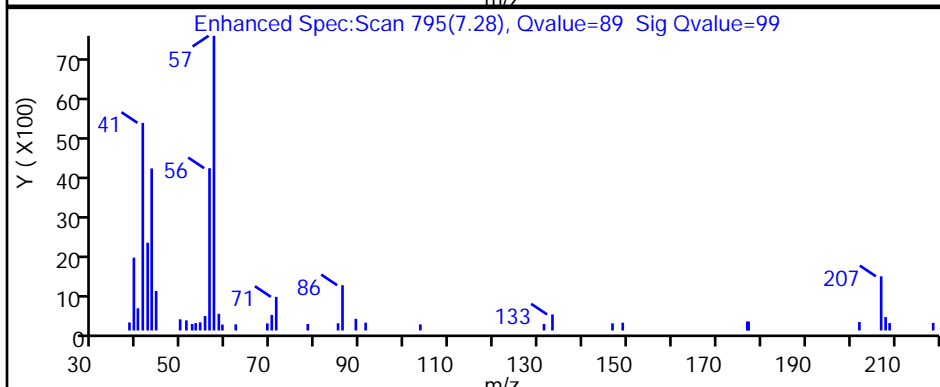
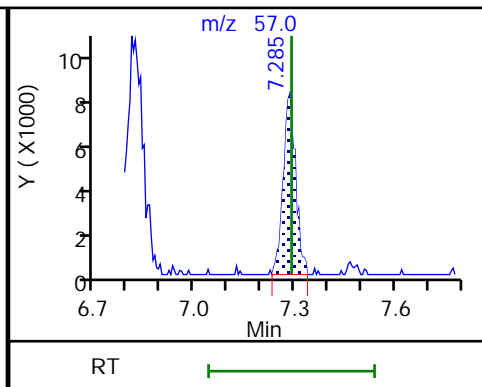
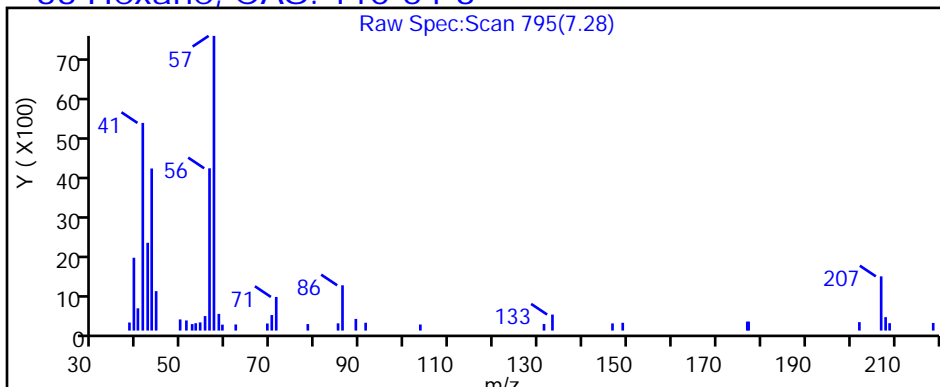
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

33 Hexane, CAS: 110-54-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

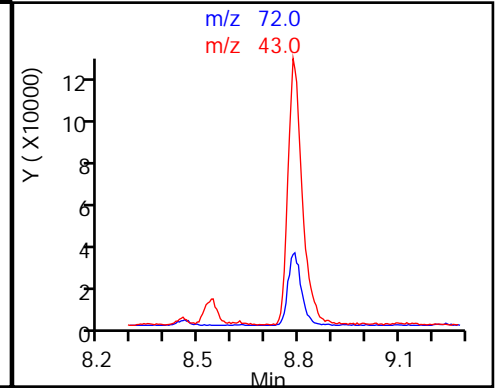
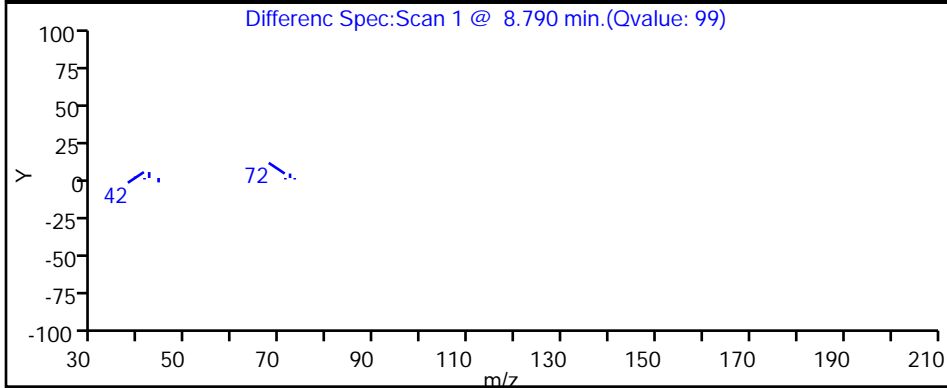
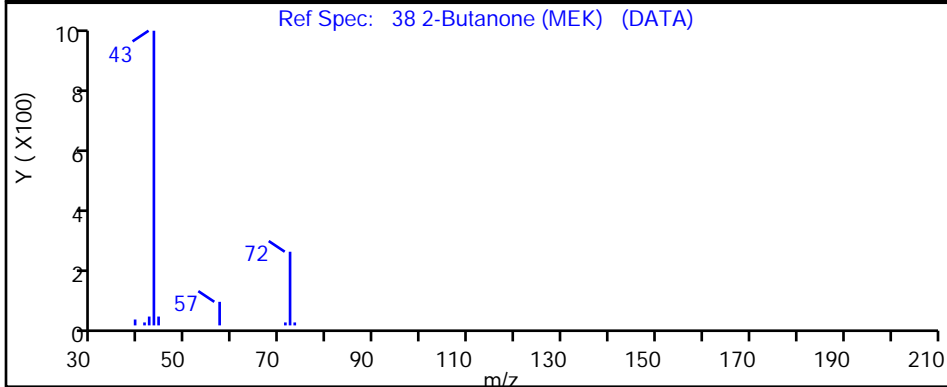
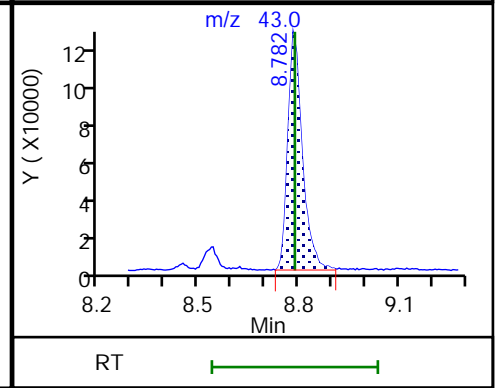
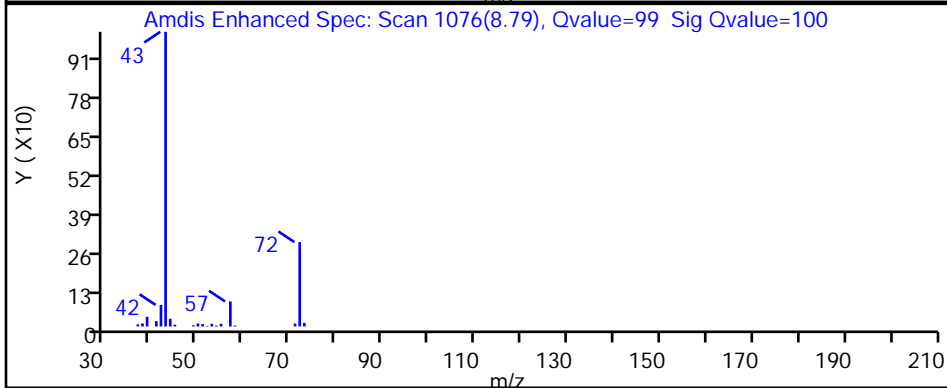
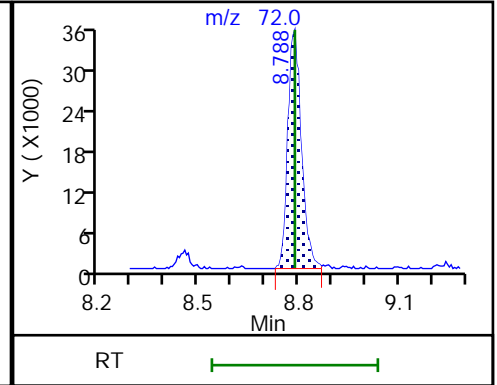
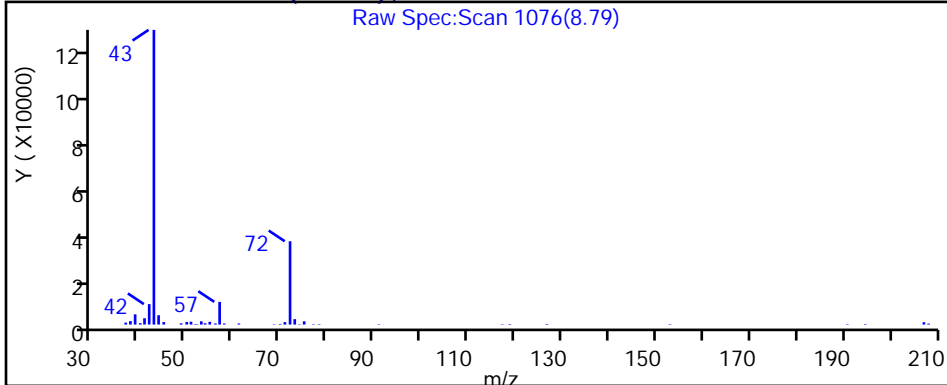
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

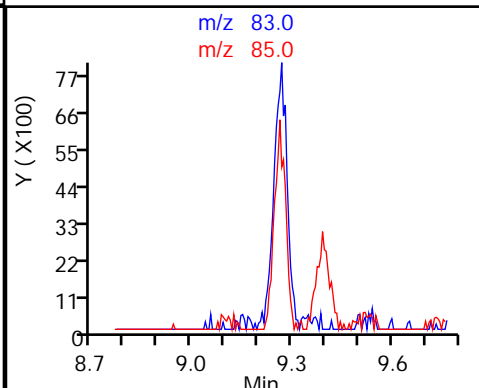
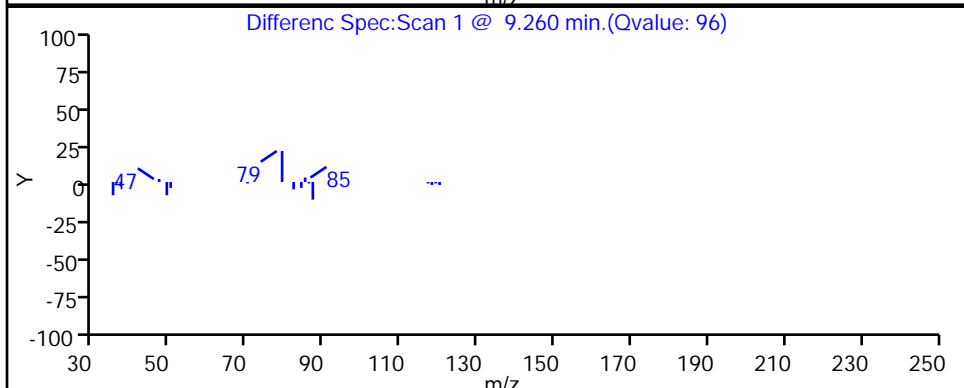
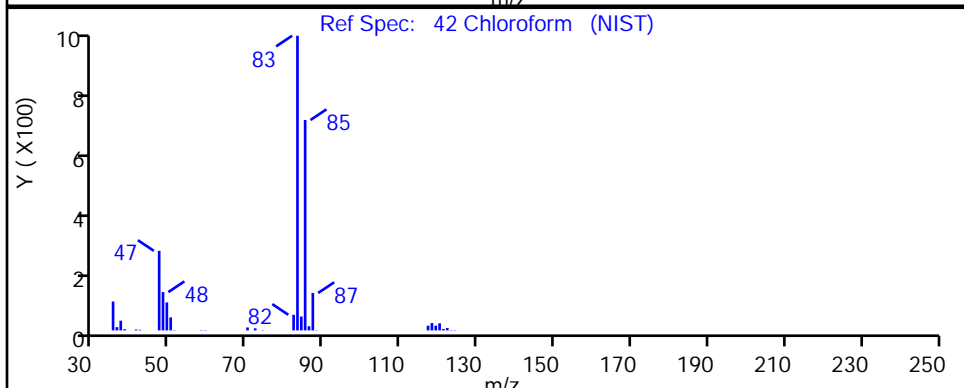
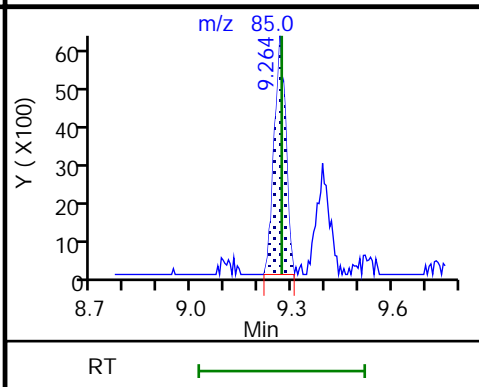
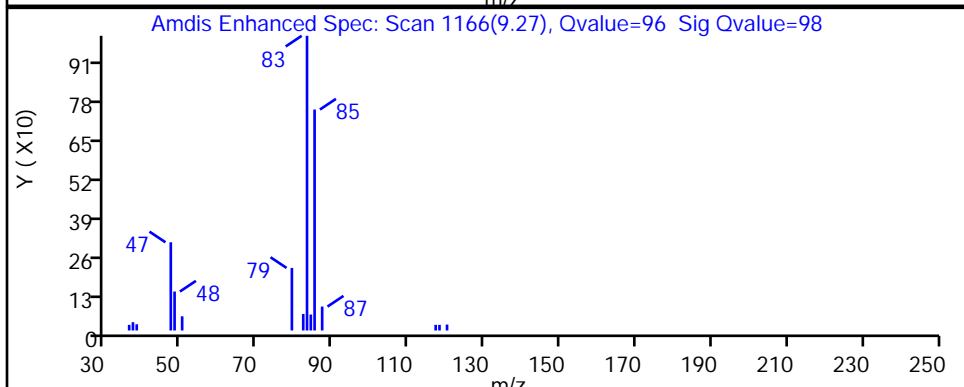
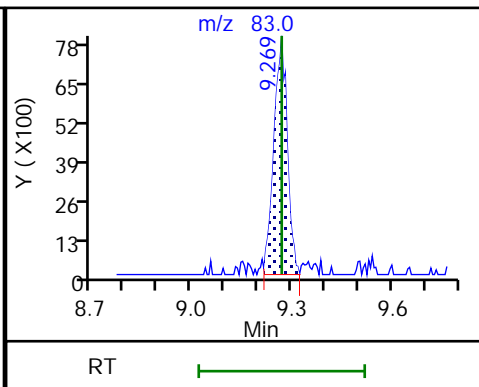
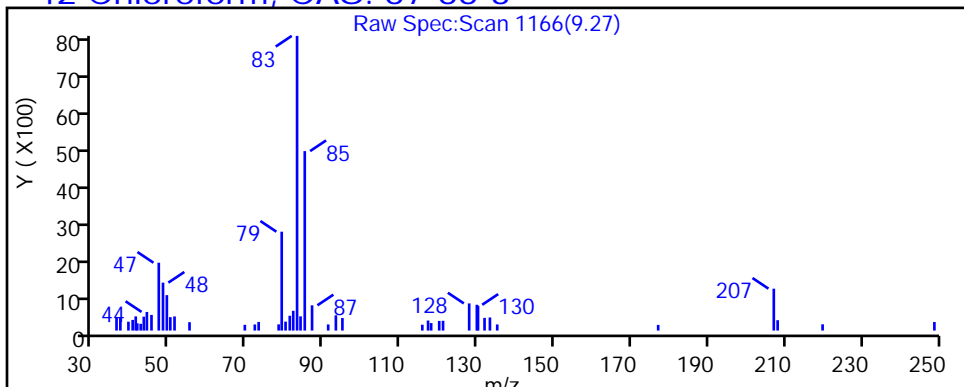
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

42 Chloroform, CAS: 67-66-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

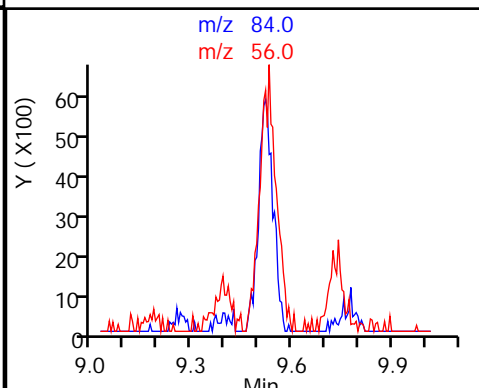
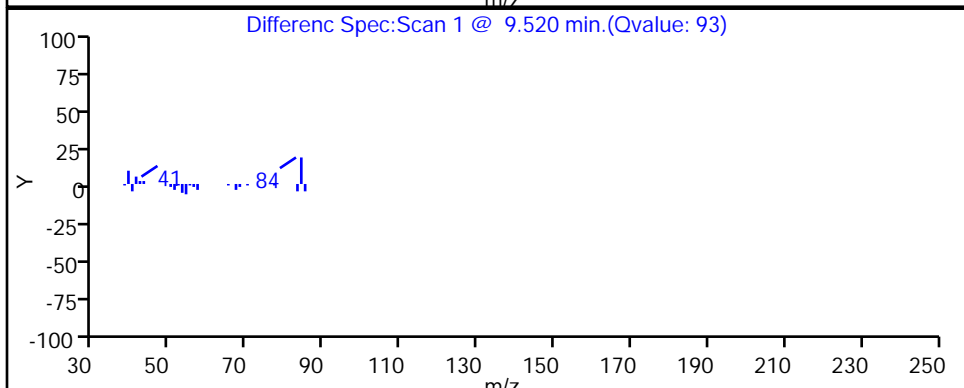
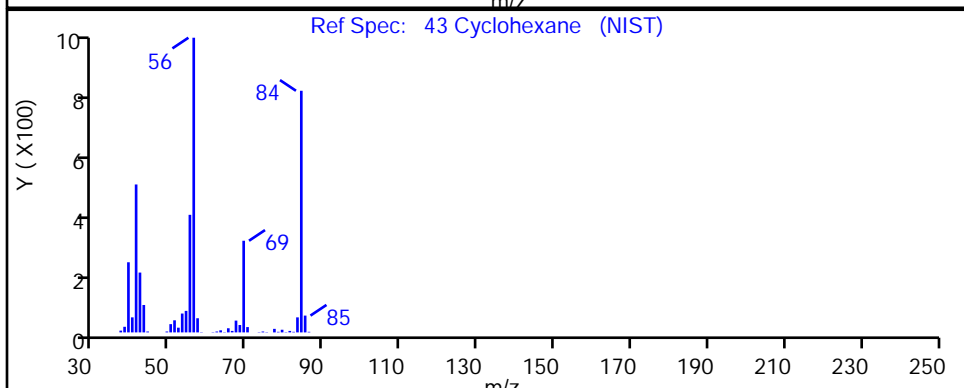
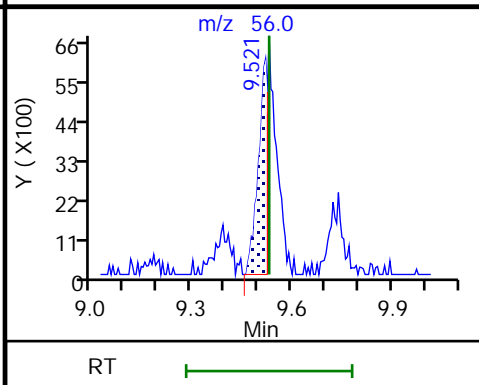
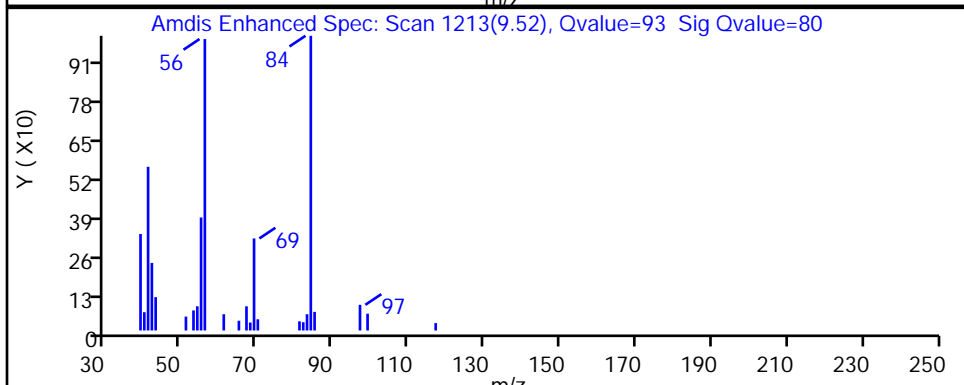
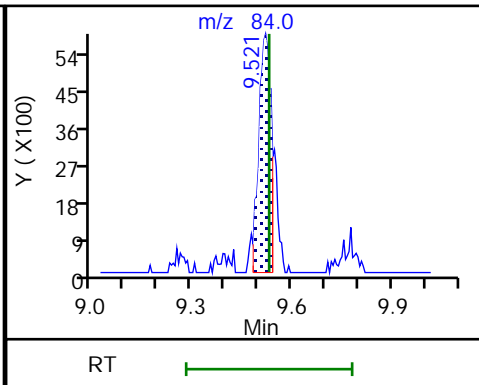
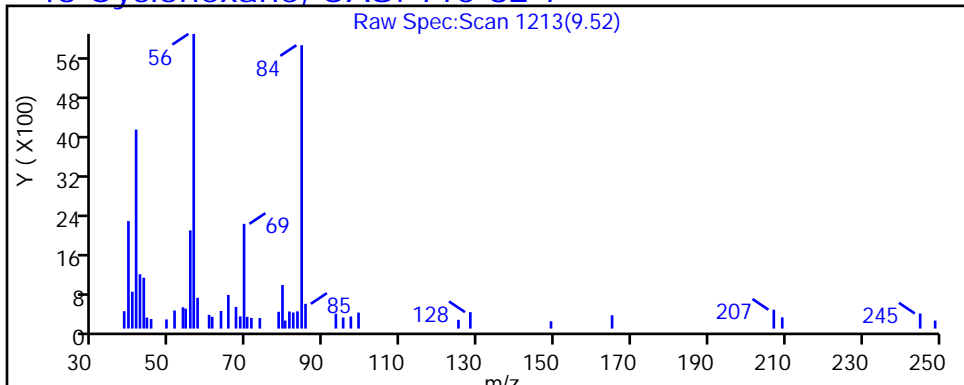
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

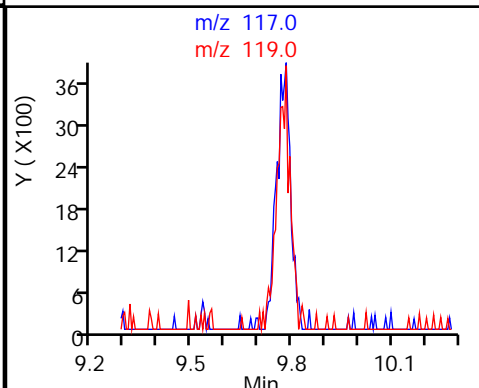
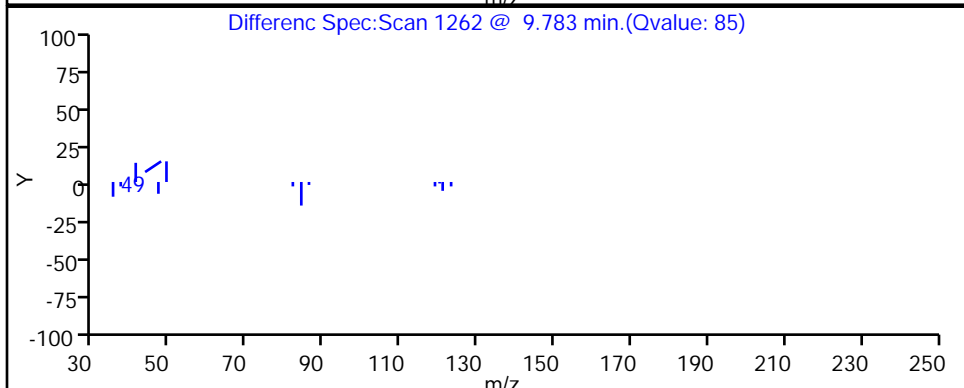
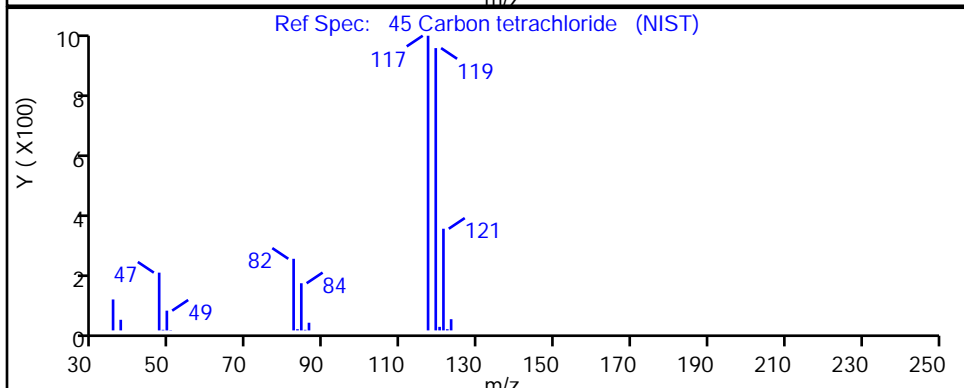
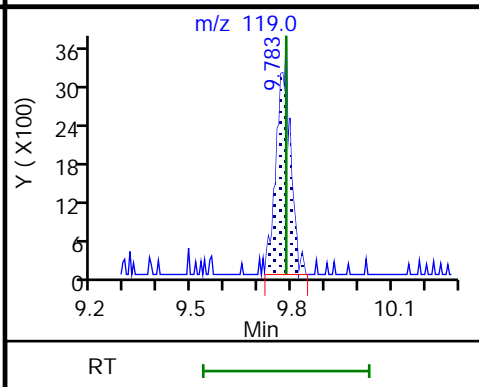
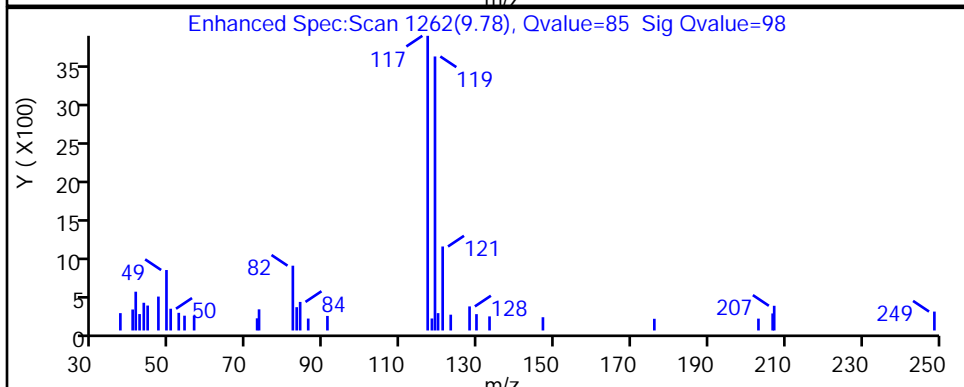
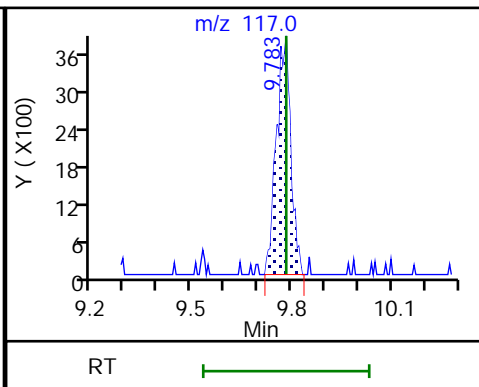
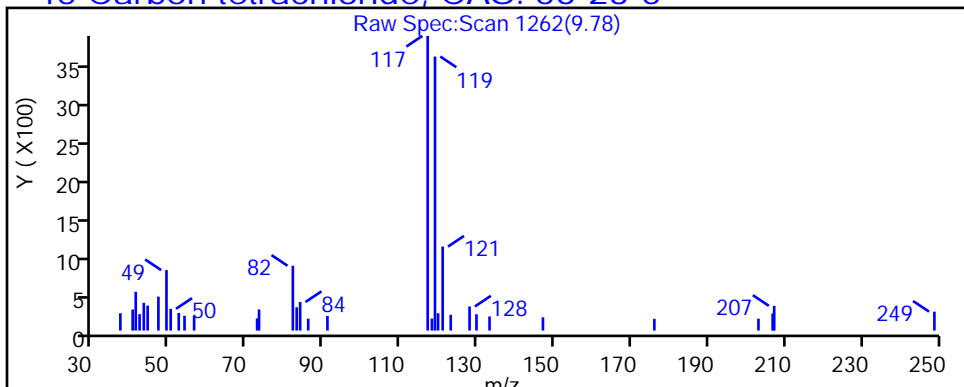
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

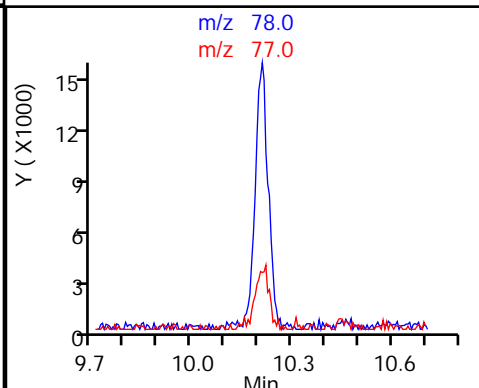
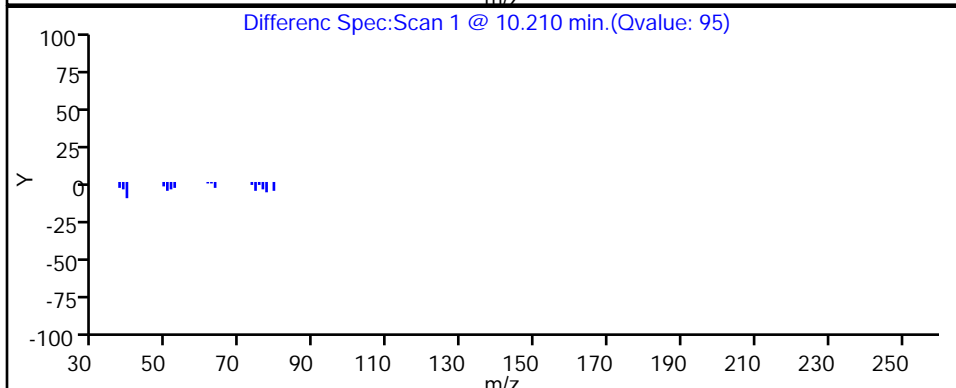
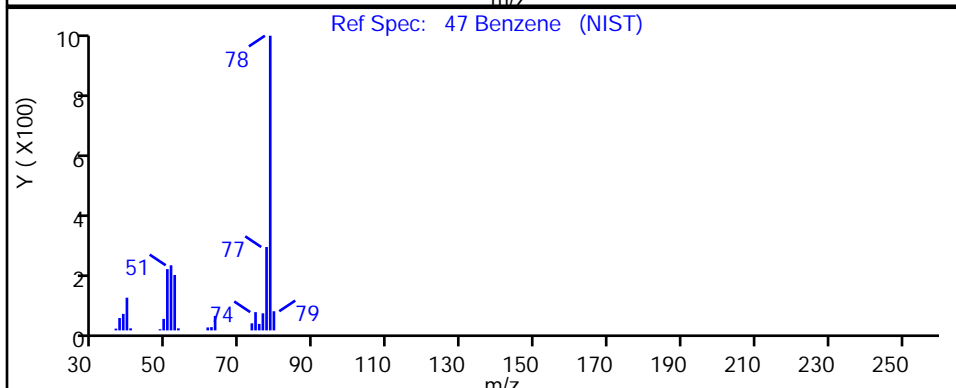
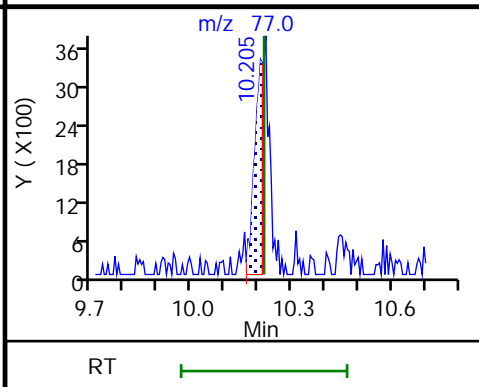
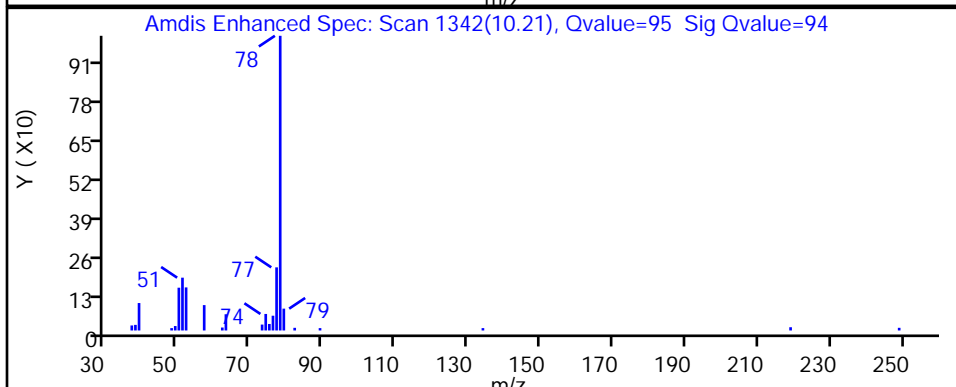
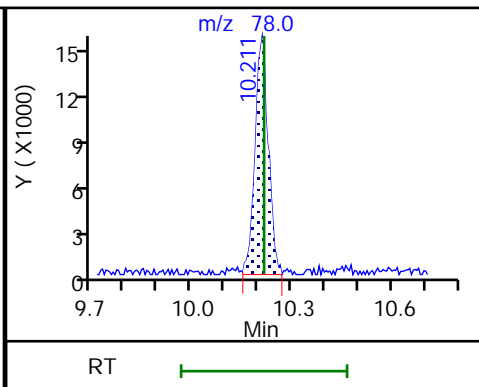
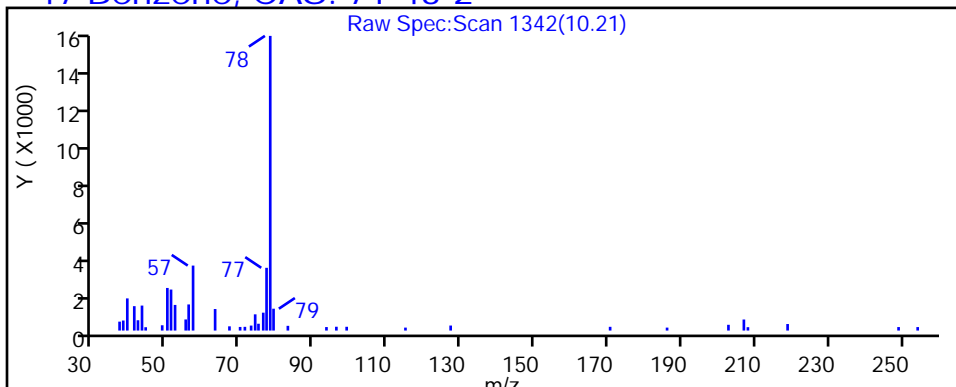
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

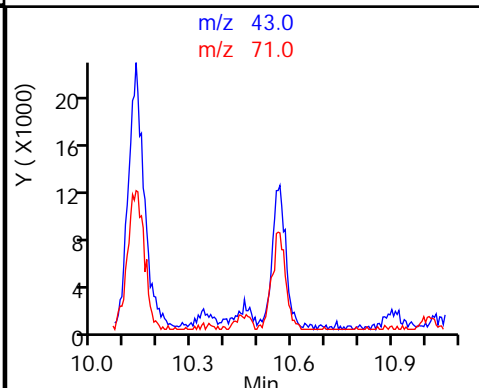
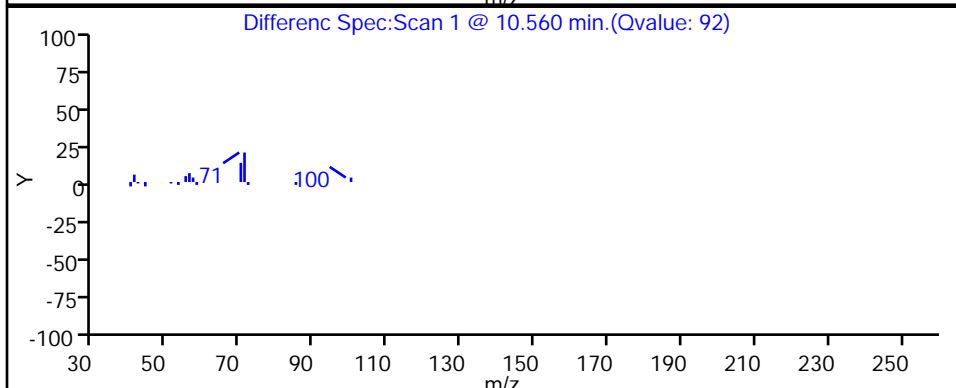
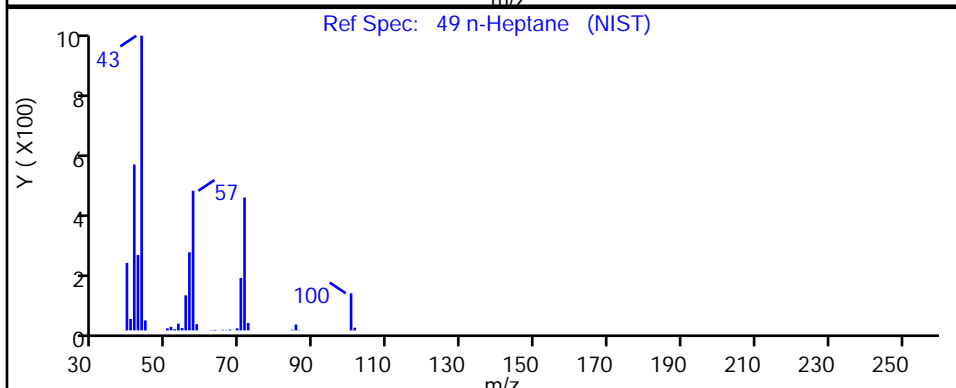
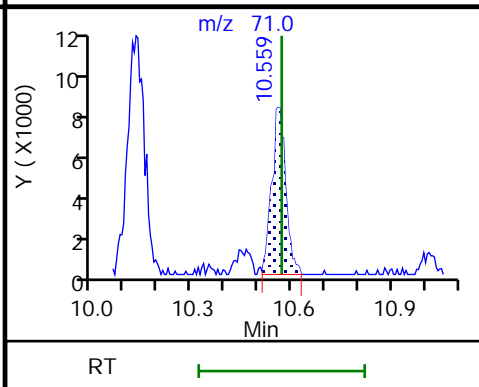
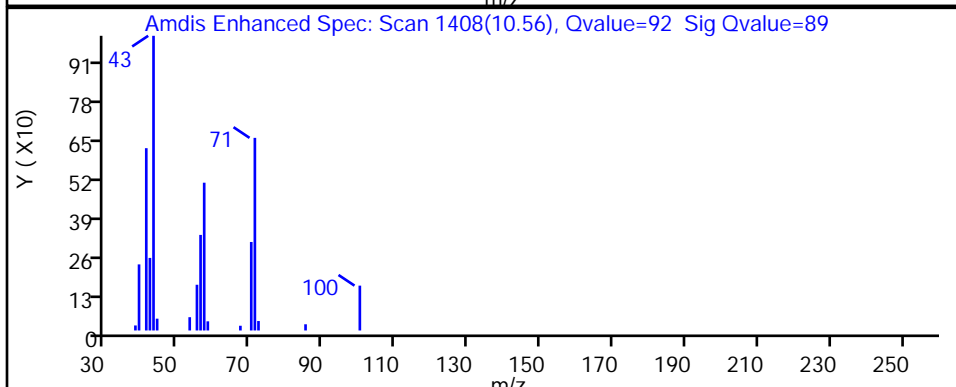
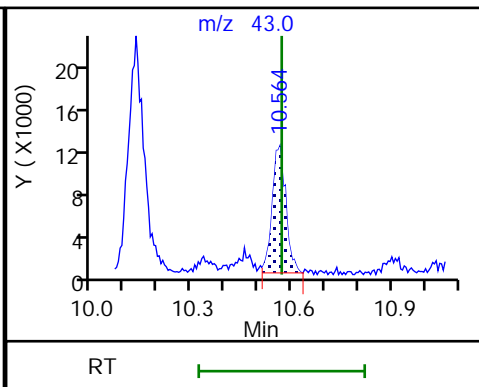
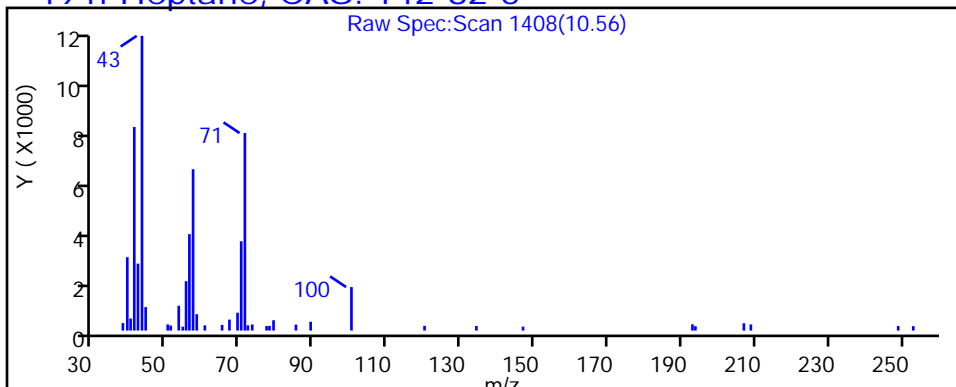
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

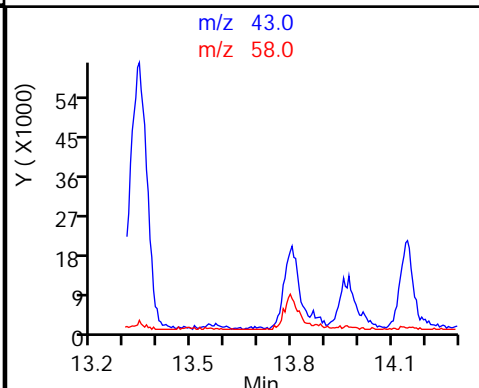
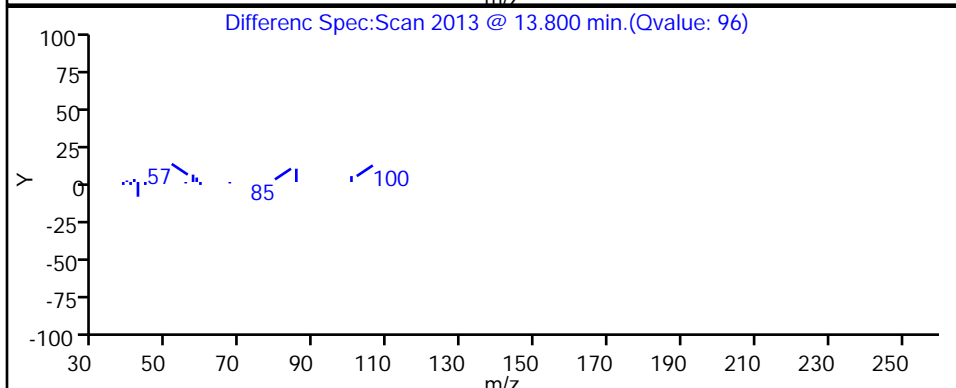
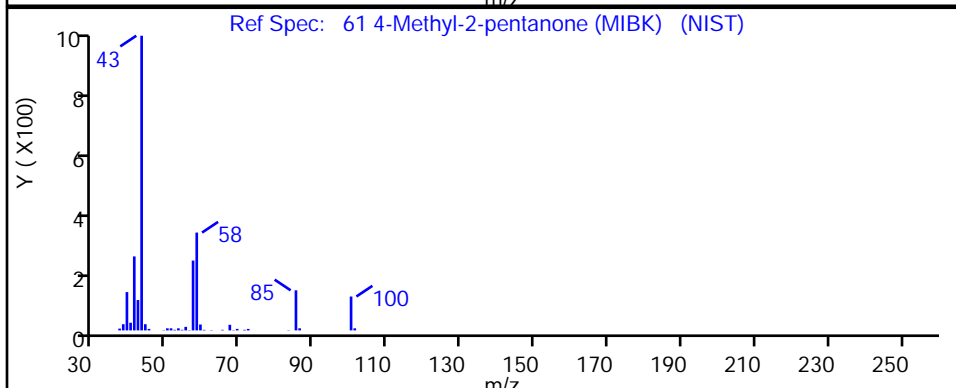
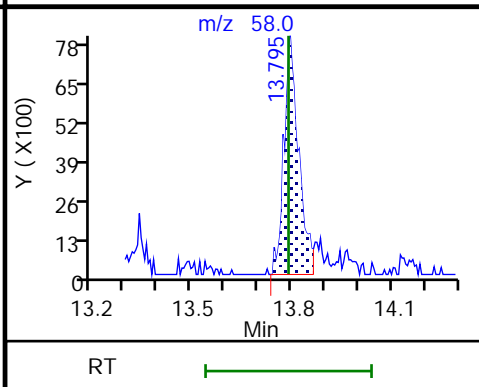
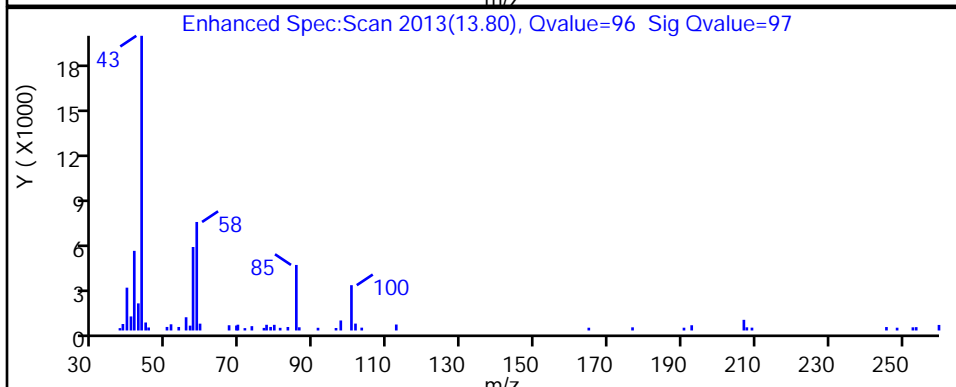
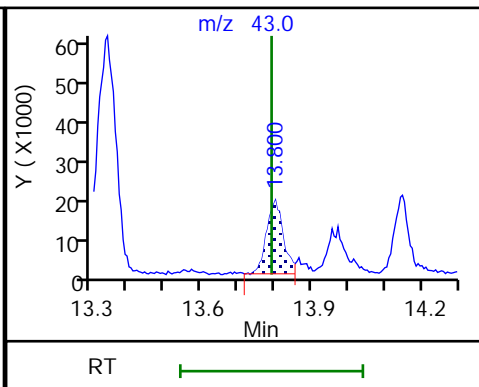
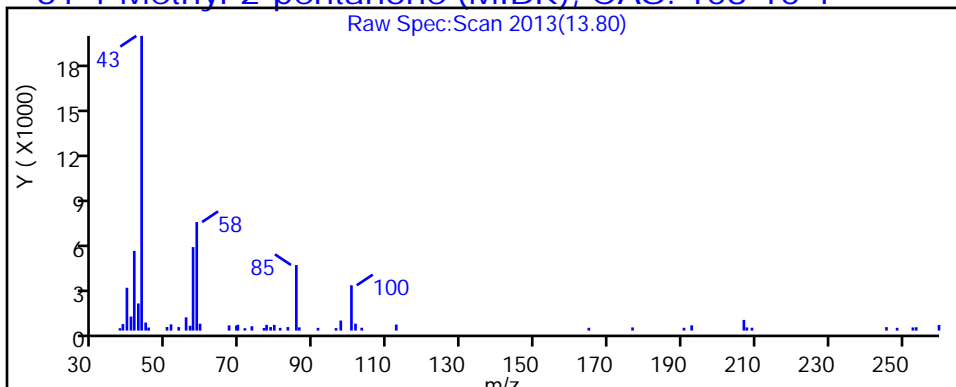
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1





TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

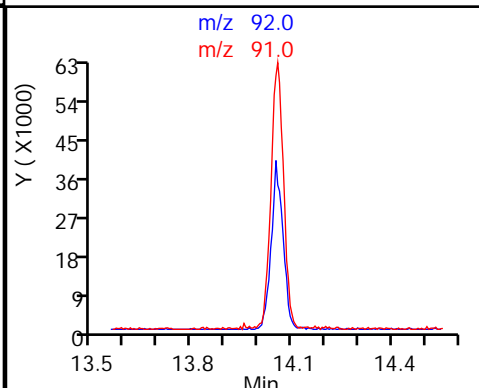
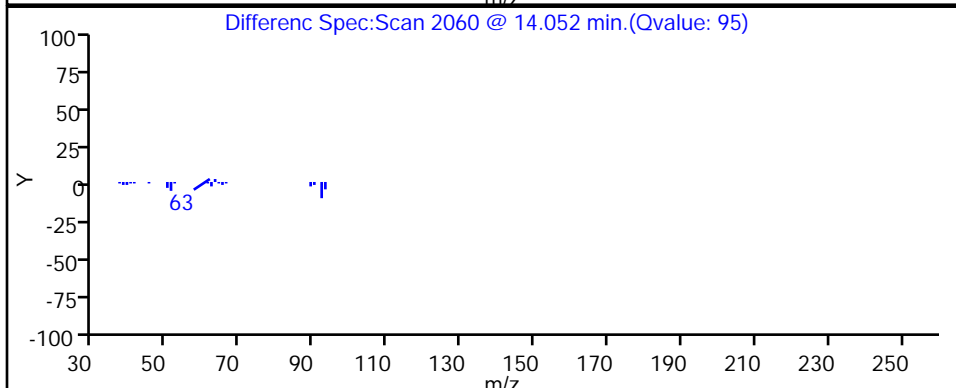
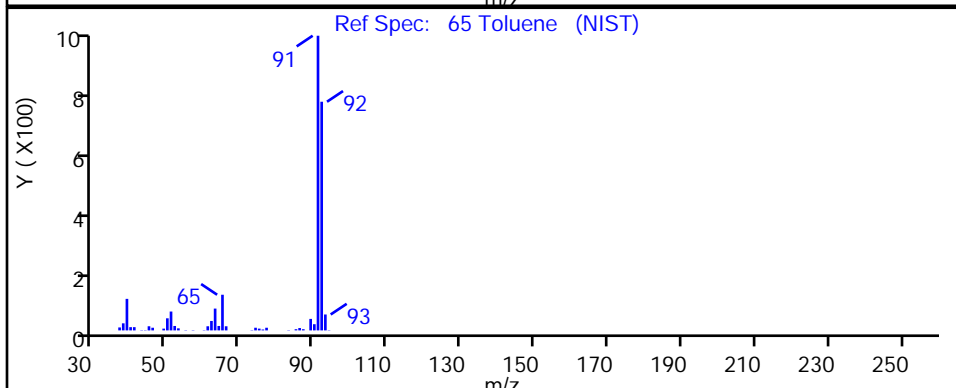
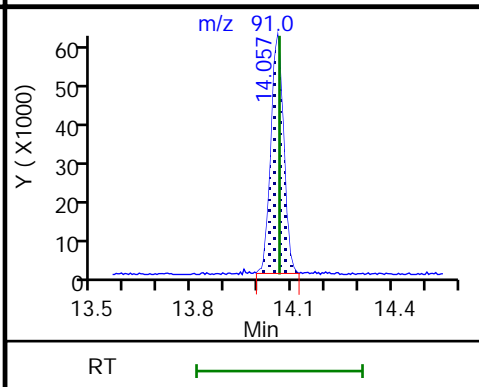
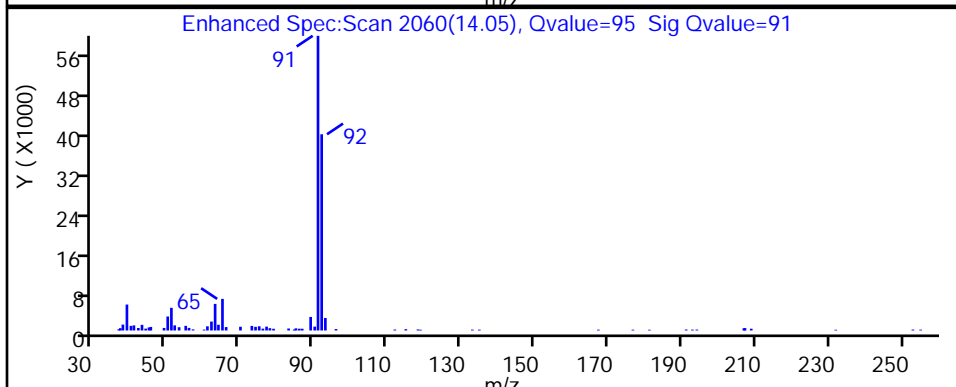
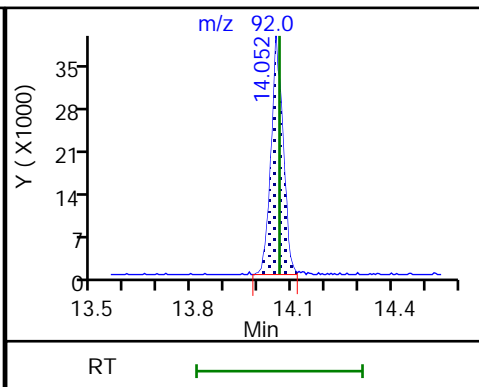
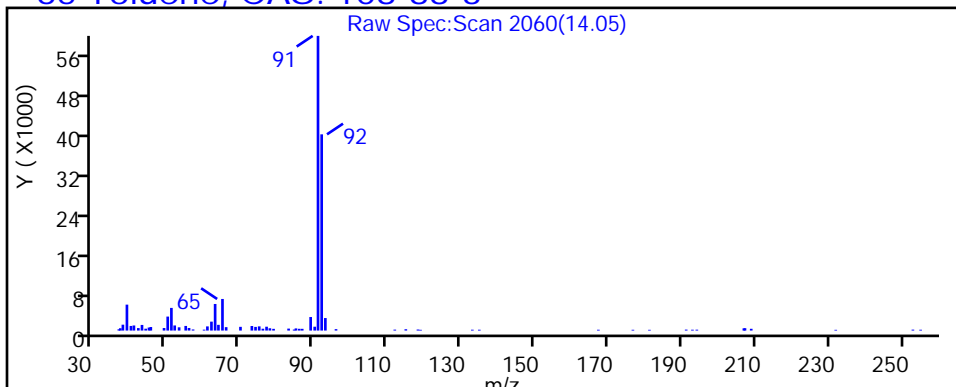
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

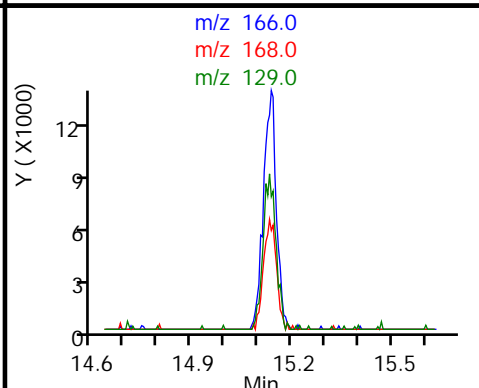
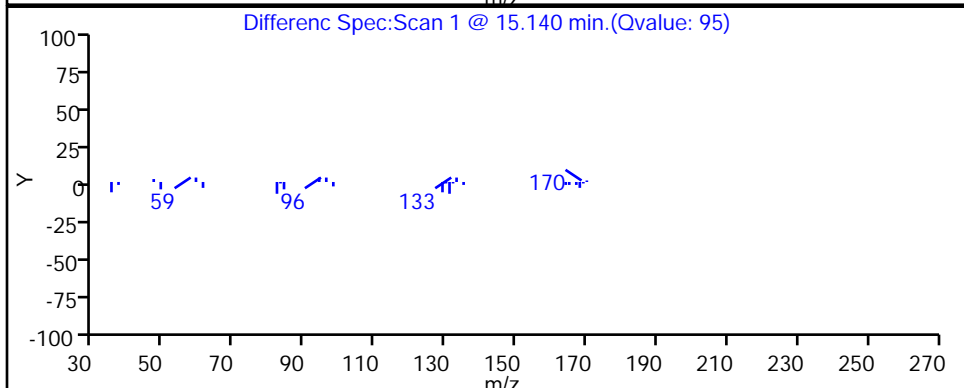
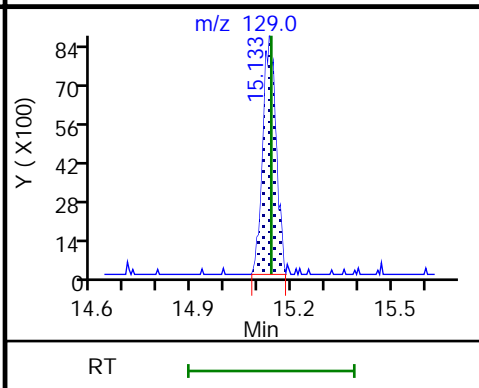
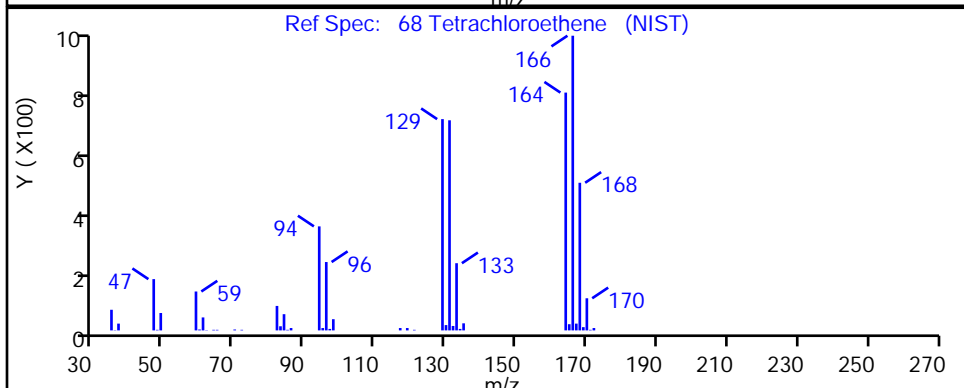
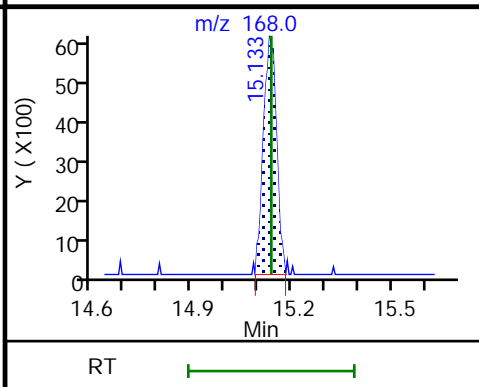
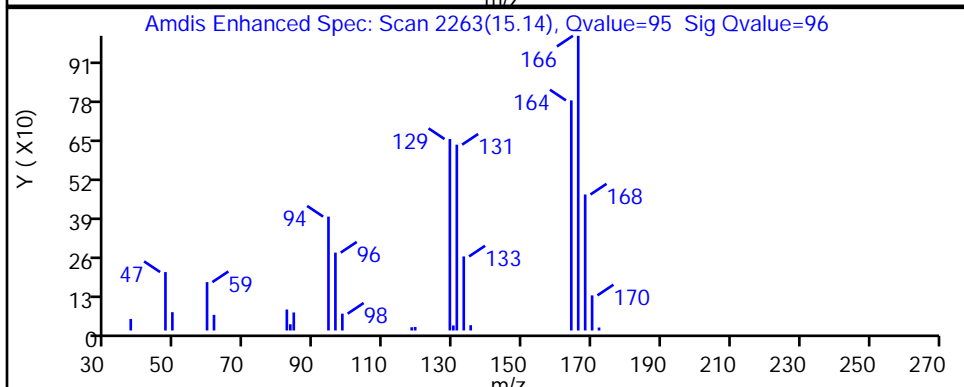
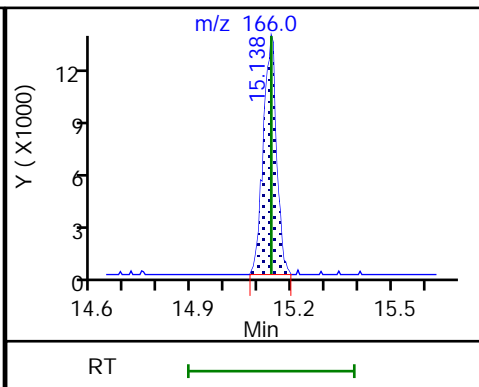
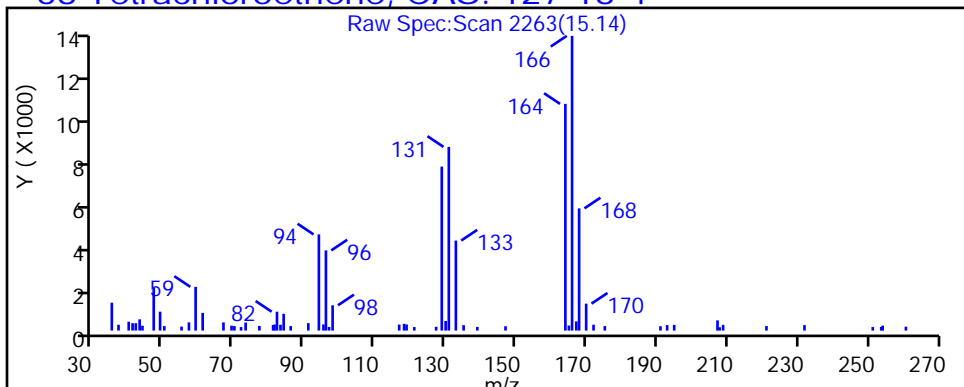
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

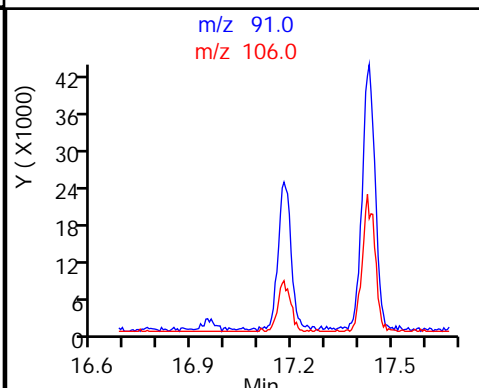
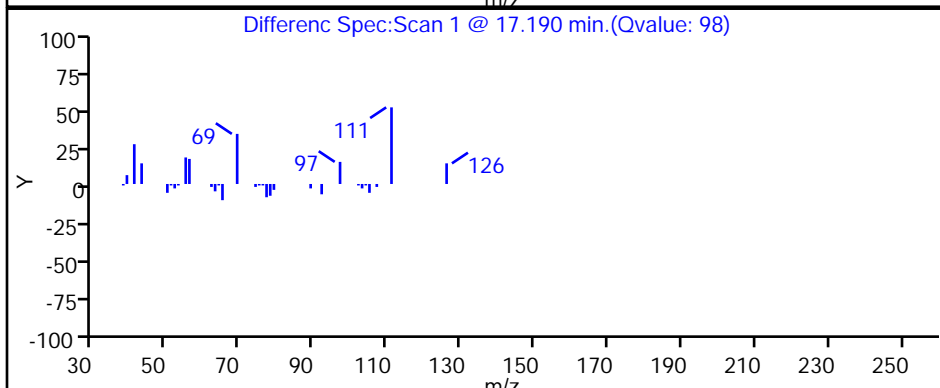
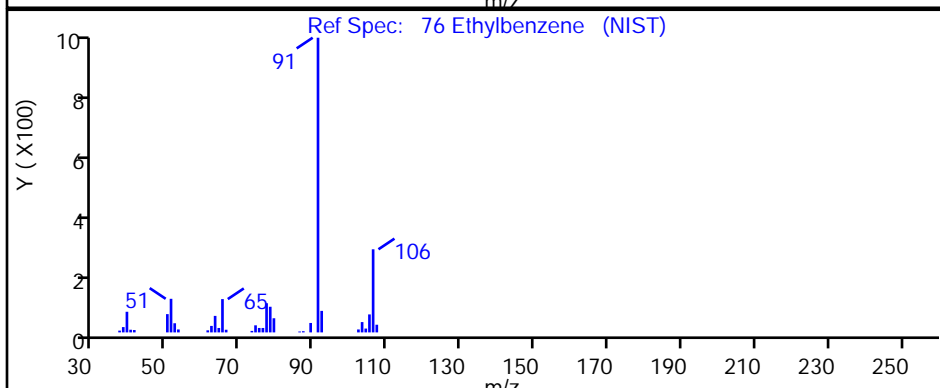
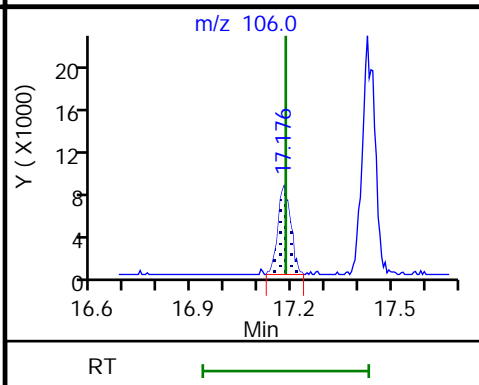
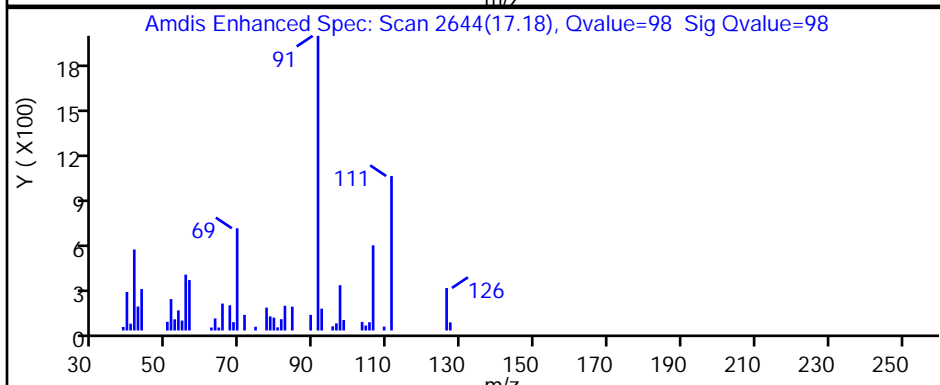
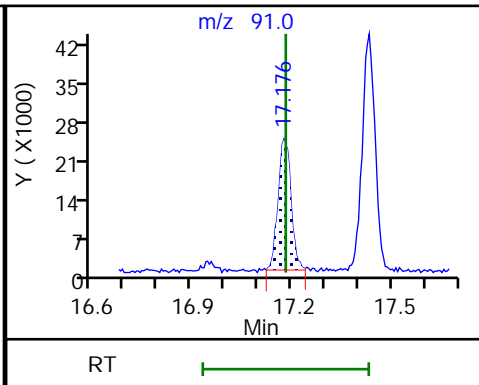
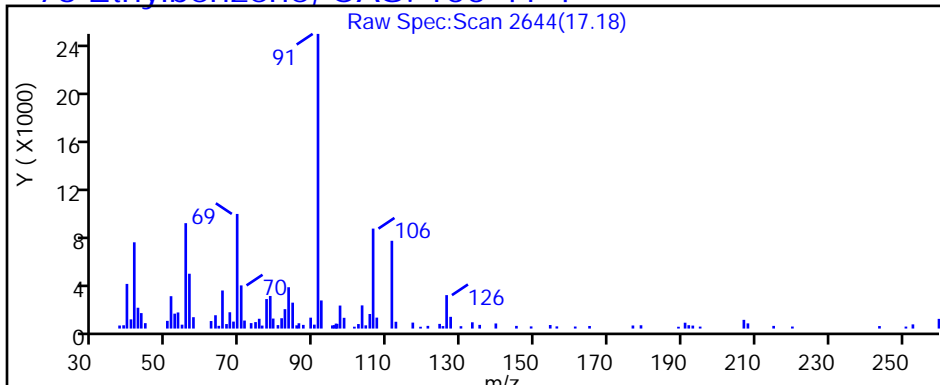
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13 Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

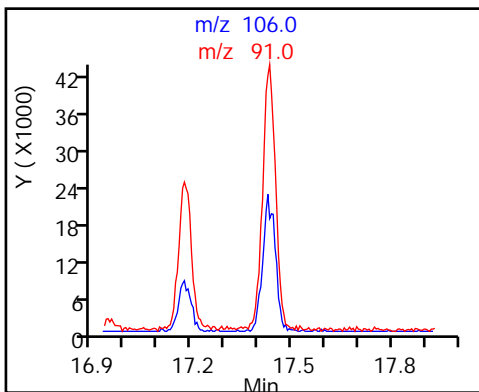
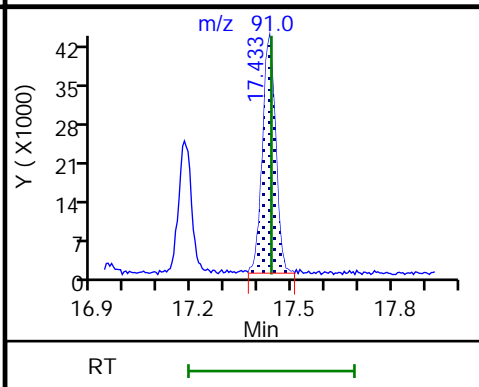
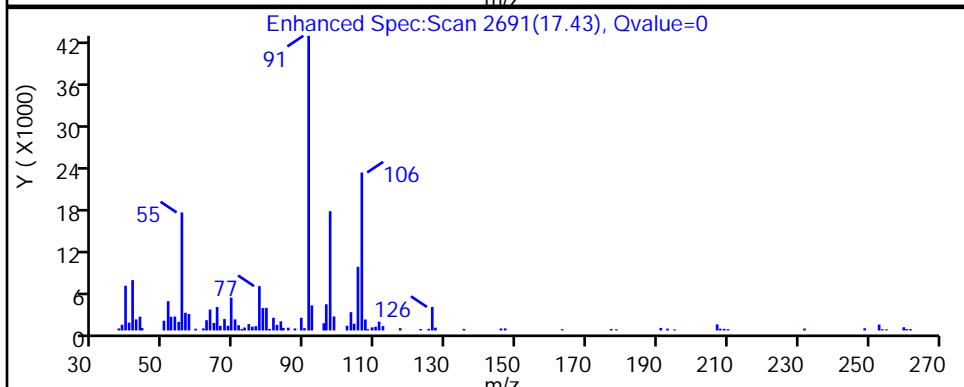
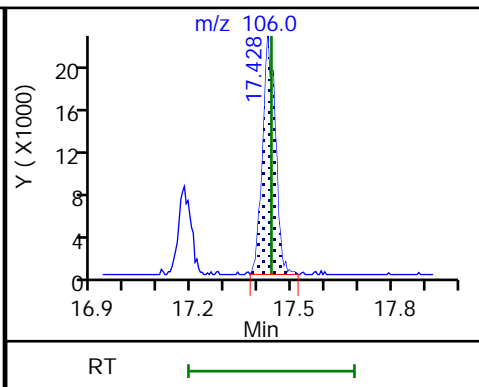
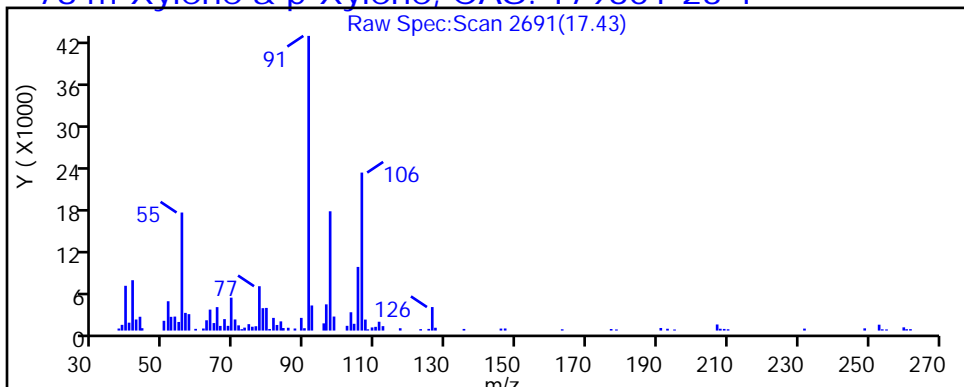
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D

Injection Date: 07-Dec-2018 00:13:30

Instrument ID: CHG.i

Lims ID: 200-46353-A-11

Lab Sample ID: 200-46353-11

Client ID: MP-5\_20181119

Operator ID: ert

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

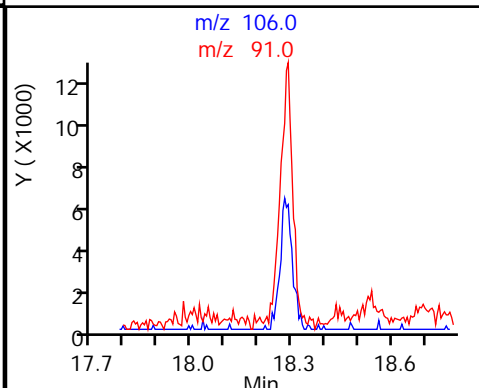
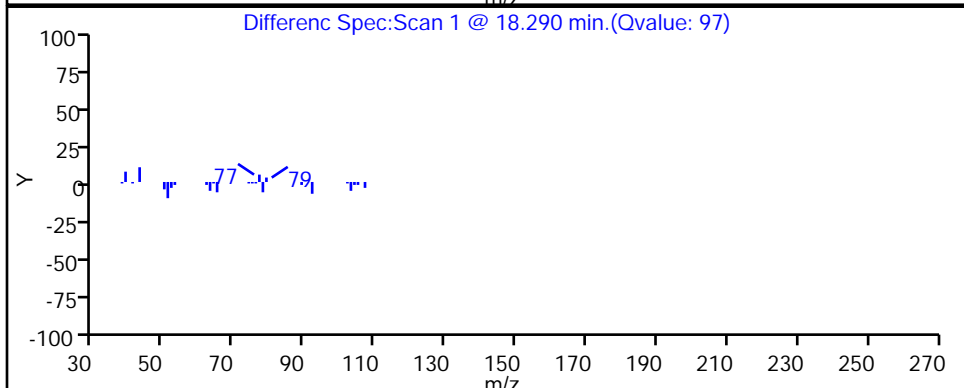
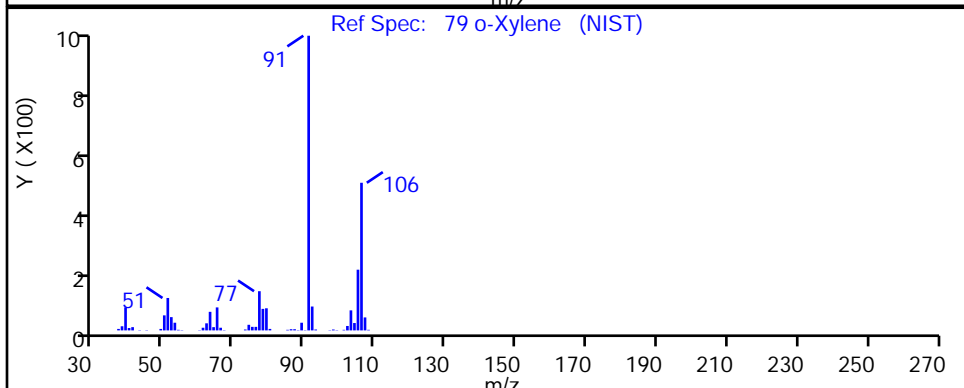
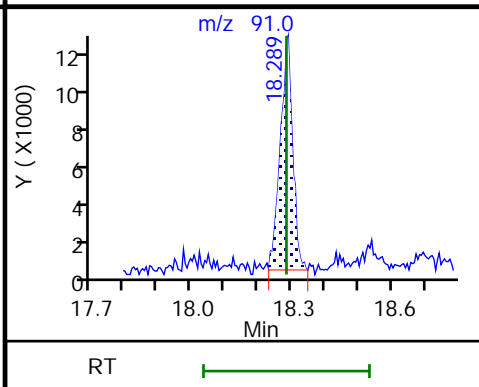
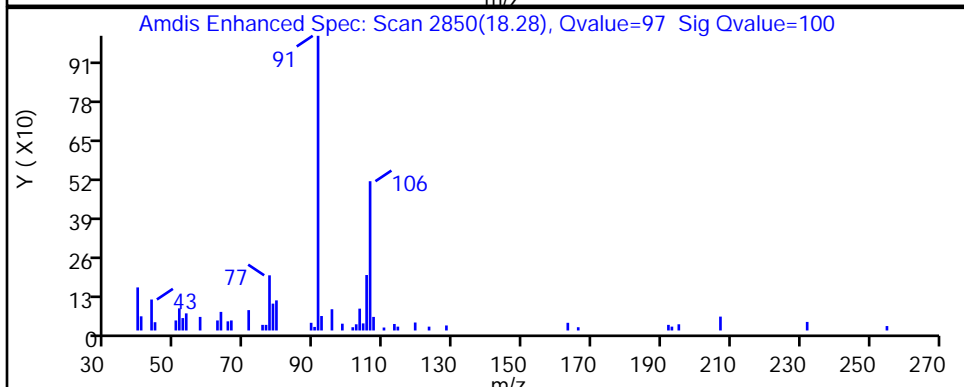
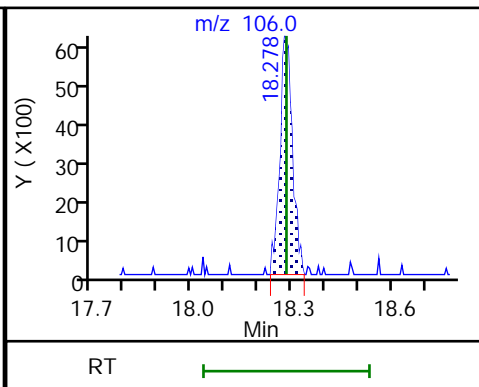
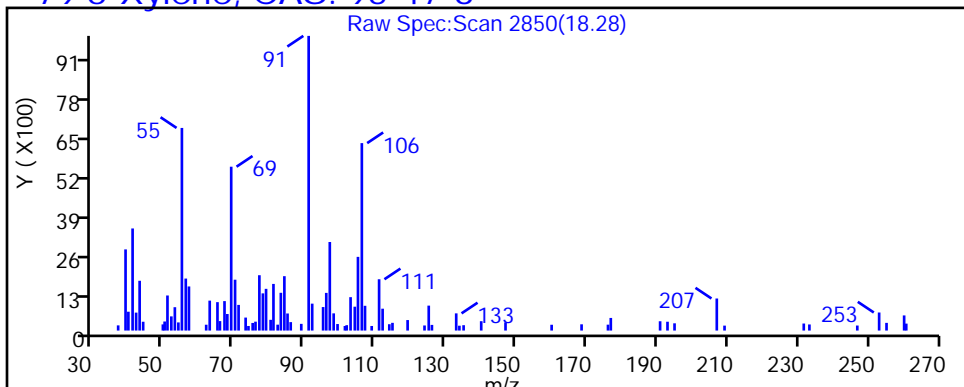
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

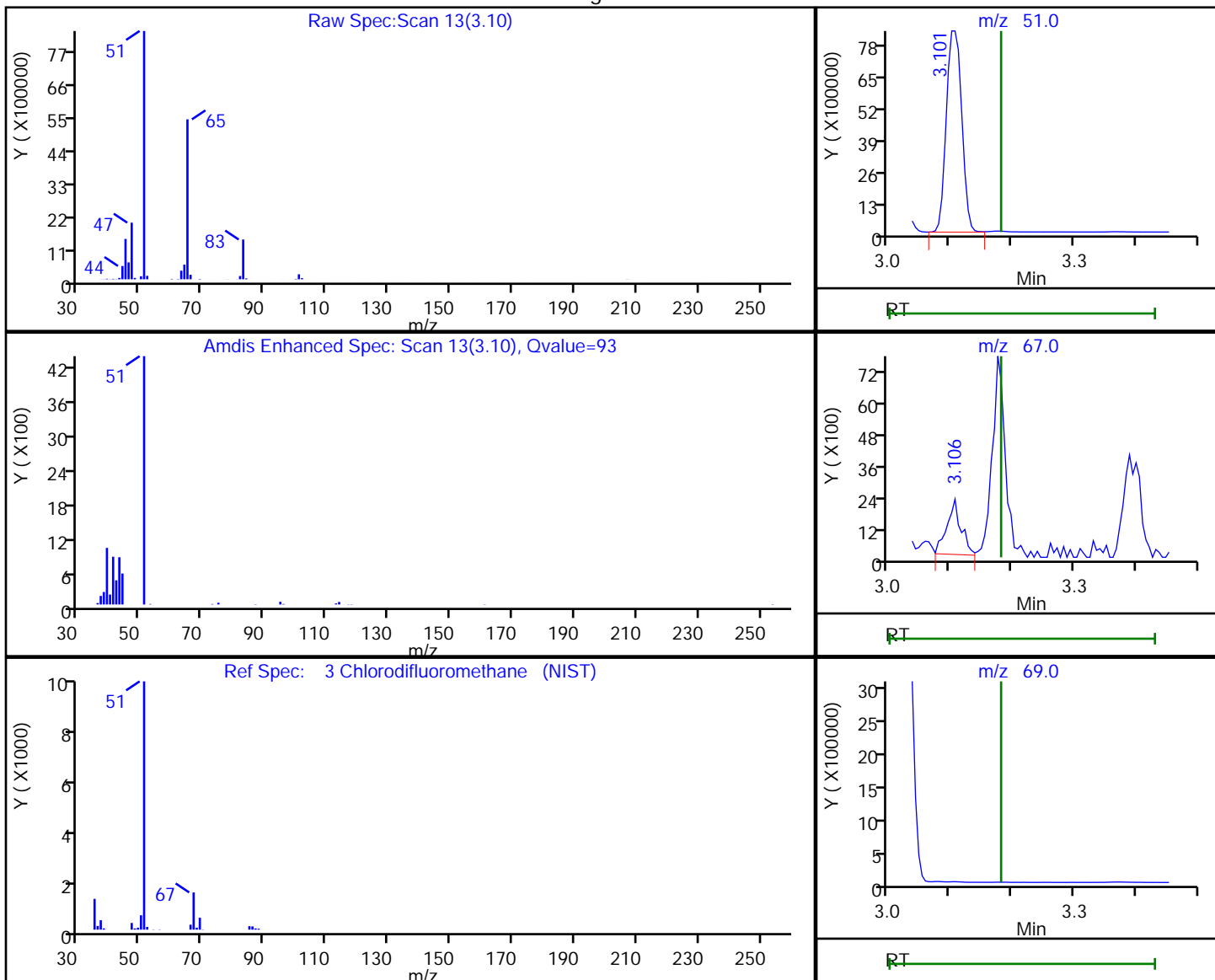


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.10 | 51.00 | 14644774 | 183.5505 |
| 3.11 | 67.00 | 3384     |          |
| 3.18 | 69.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:06:24

Audit Action: Marked Compound Undetected

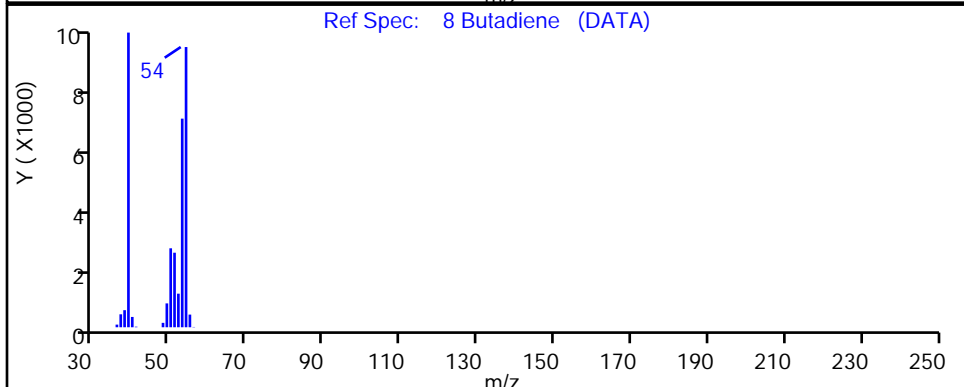
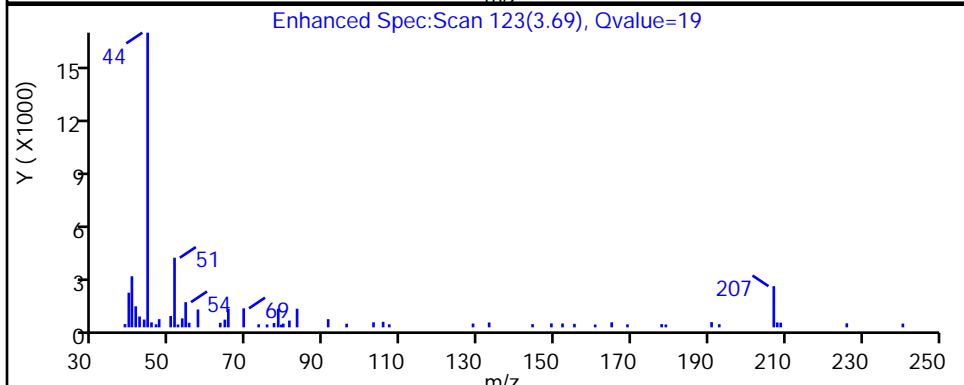
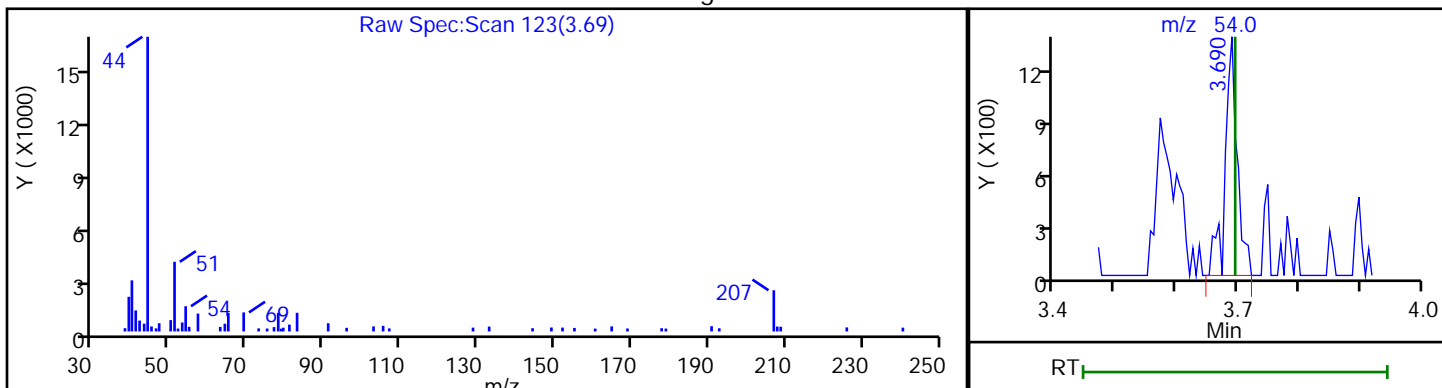
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.69 | 54.00 | 1936     | 0.070884 |

Reviewer: puangmaleek, 07-Dec-2018 17:06:32

Audit Action: Marked Compound Undetected

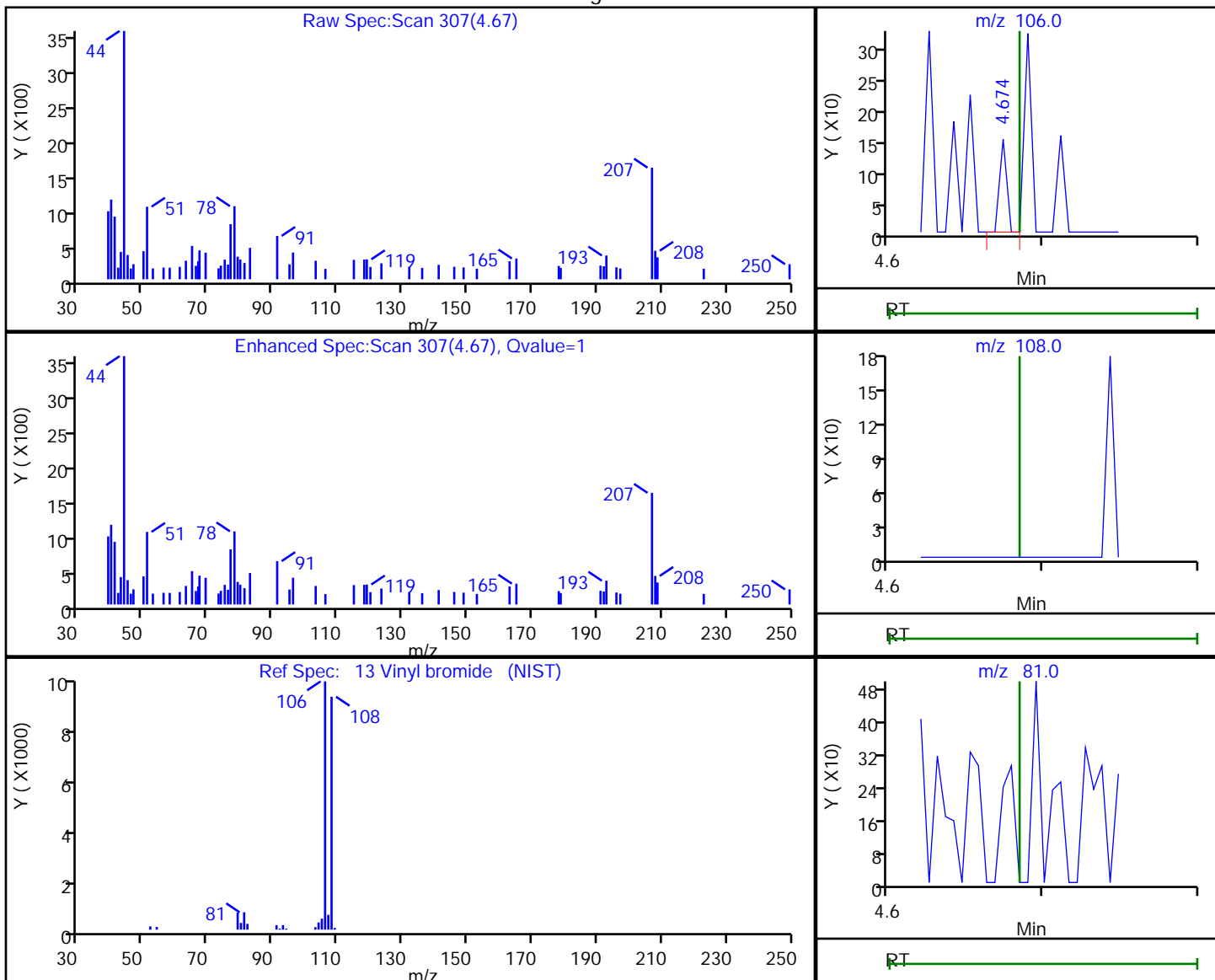
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.67 | 106.00 | 48       | 0.000958 |
| 4.68 | 108.00 | 0        |          |
| 4.68 | 81.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:06:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

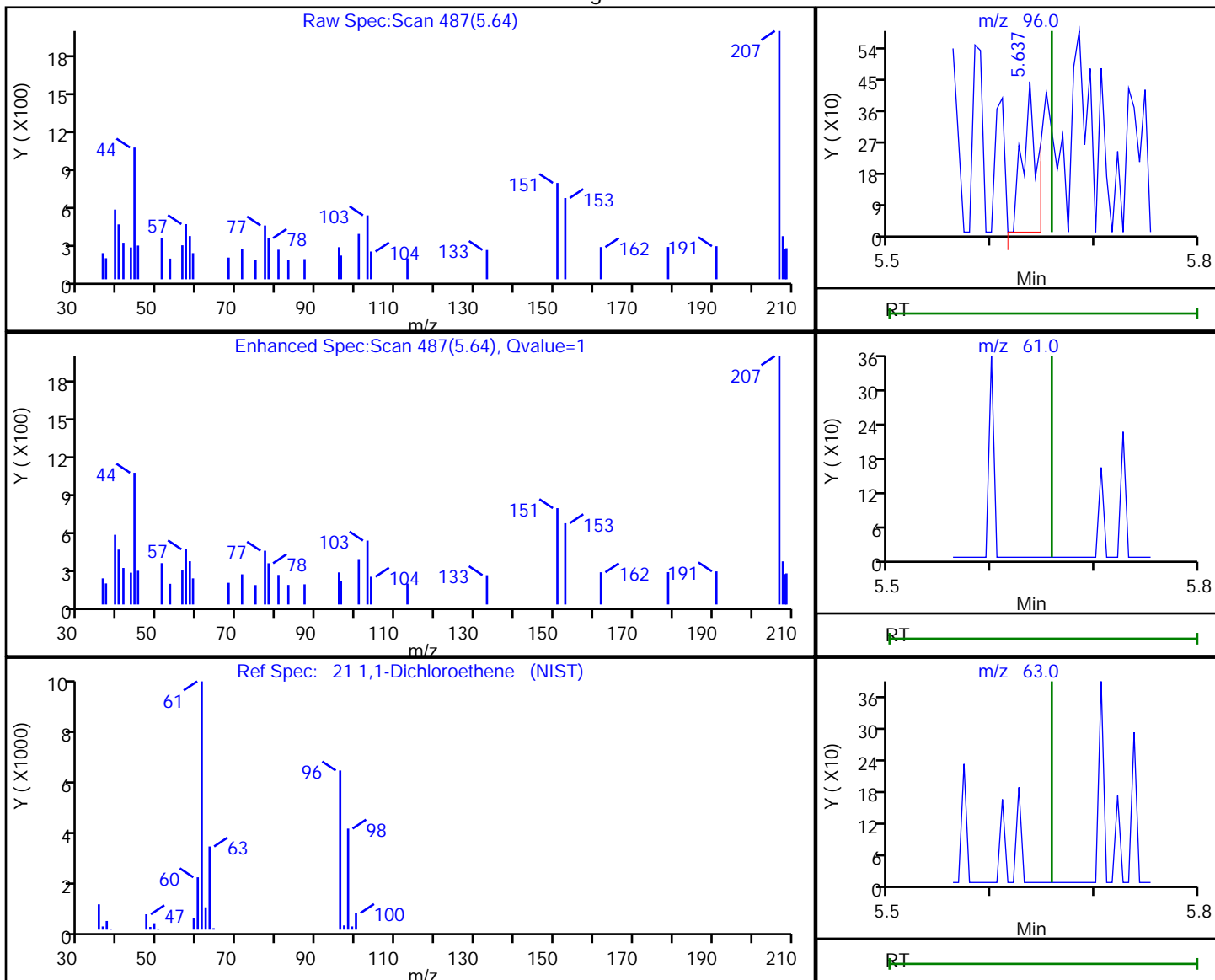


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.64 | 96.00 | 411      | 0.008949 |
| 5.66 | 61.00 | 0        |          |
| 5.66 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:06:38

Audit Action: Marked Compound Undetected

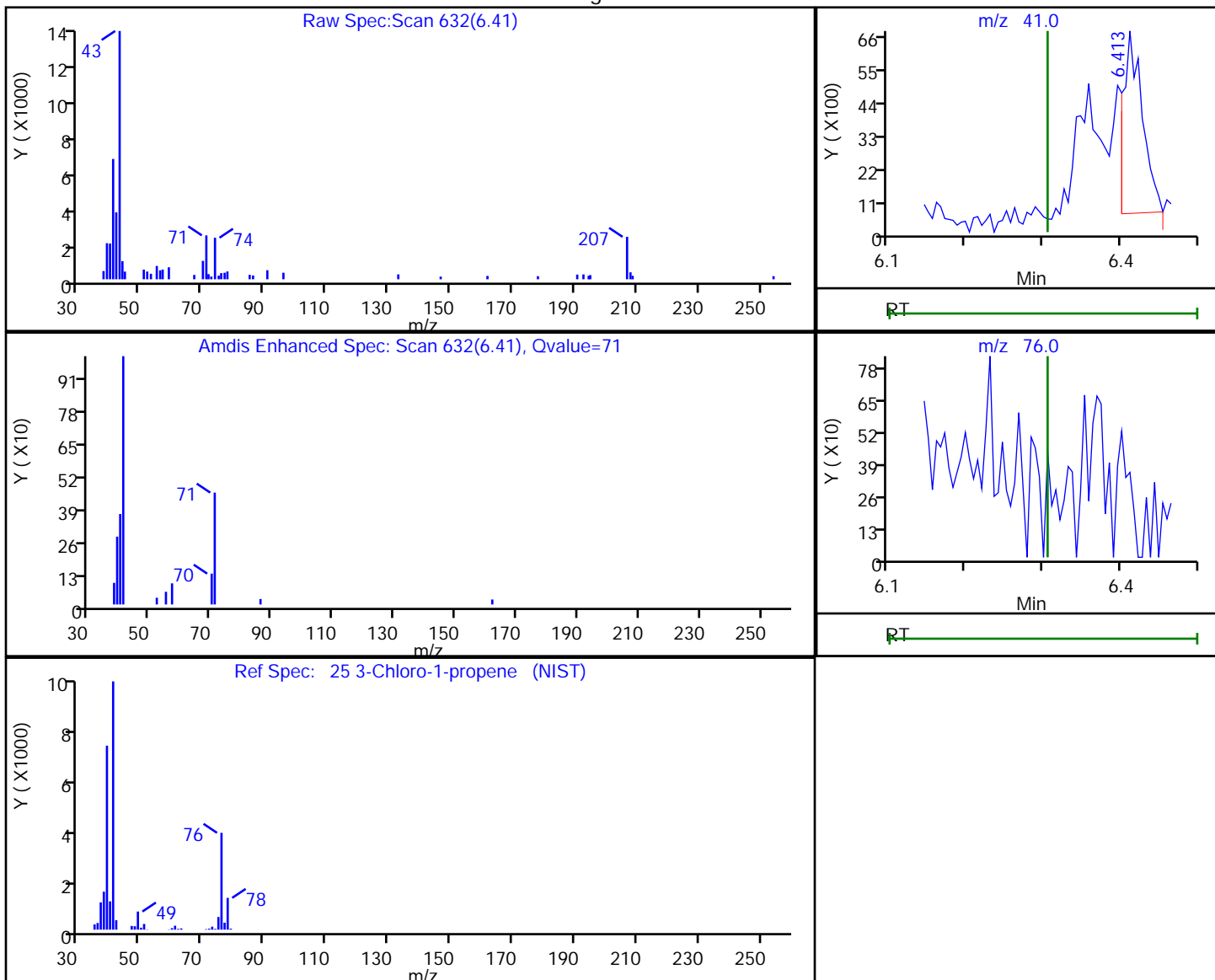
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.41 | 41.00 | 10510    | 0.307605 |
| 6.30 | 76.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:06:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

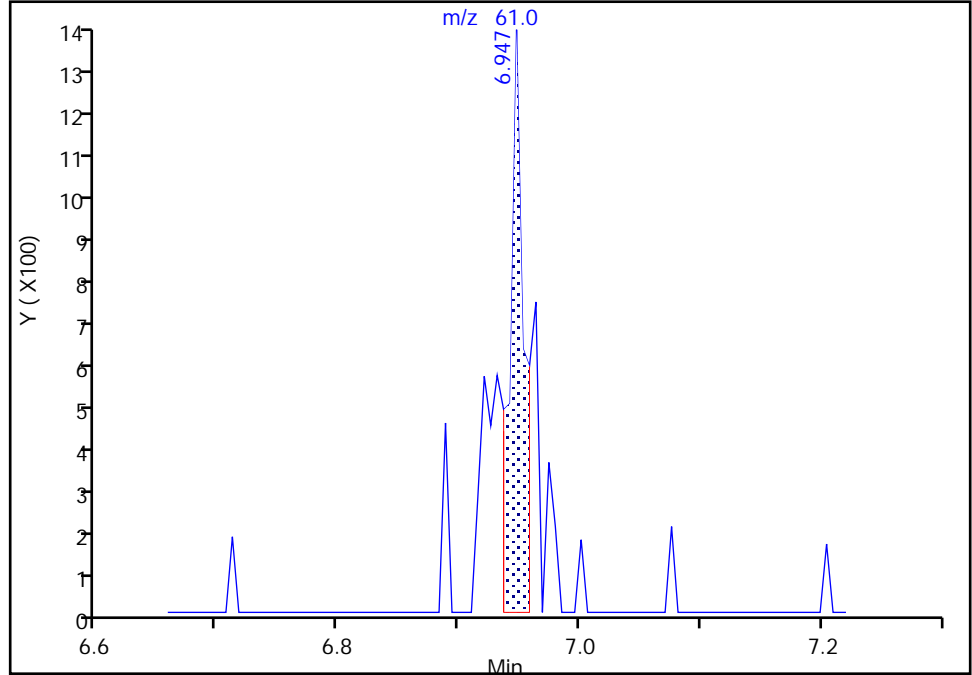
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

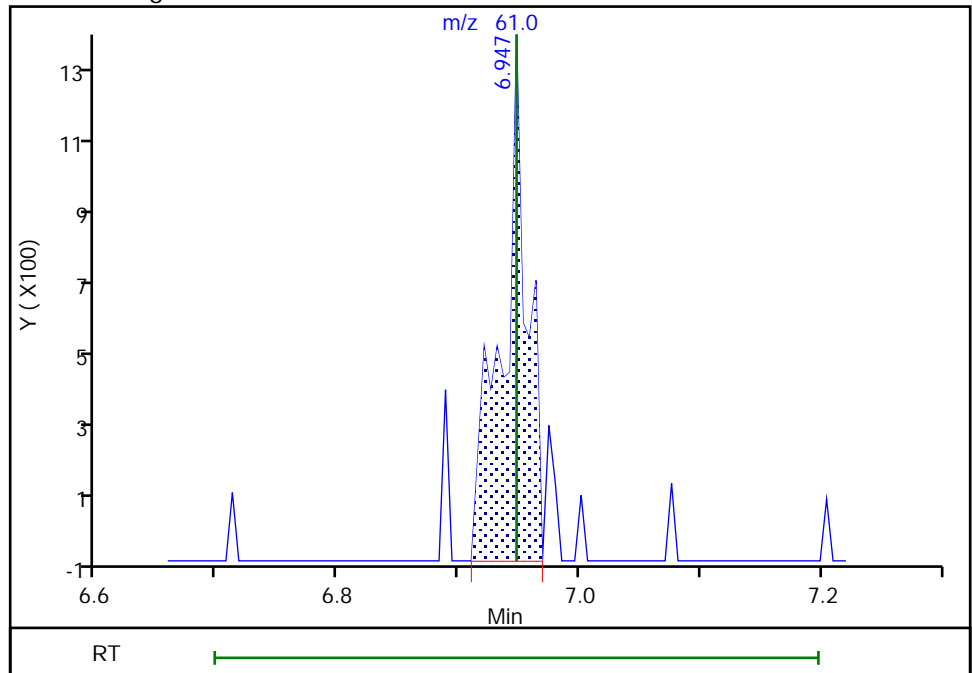
RT: 6.95  
Area: 1137  
Amount: 0.020434  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.95  
Area: 1961  
Amount: 0.035242  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:06:59

Audit Action: Manually Integrated

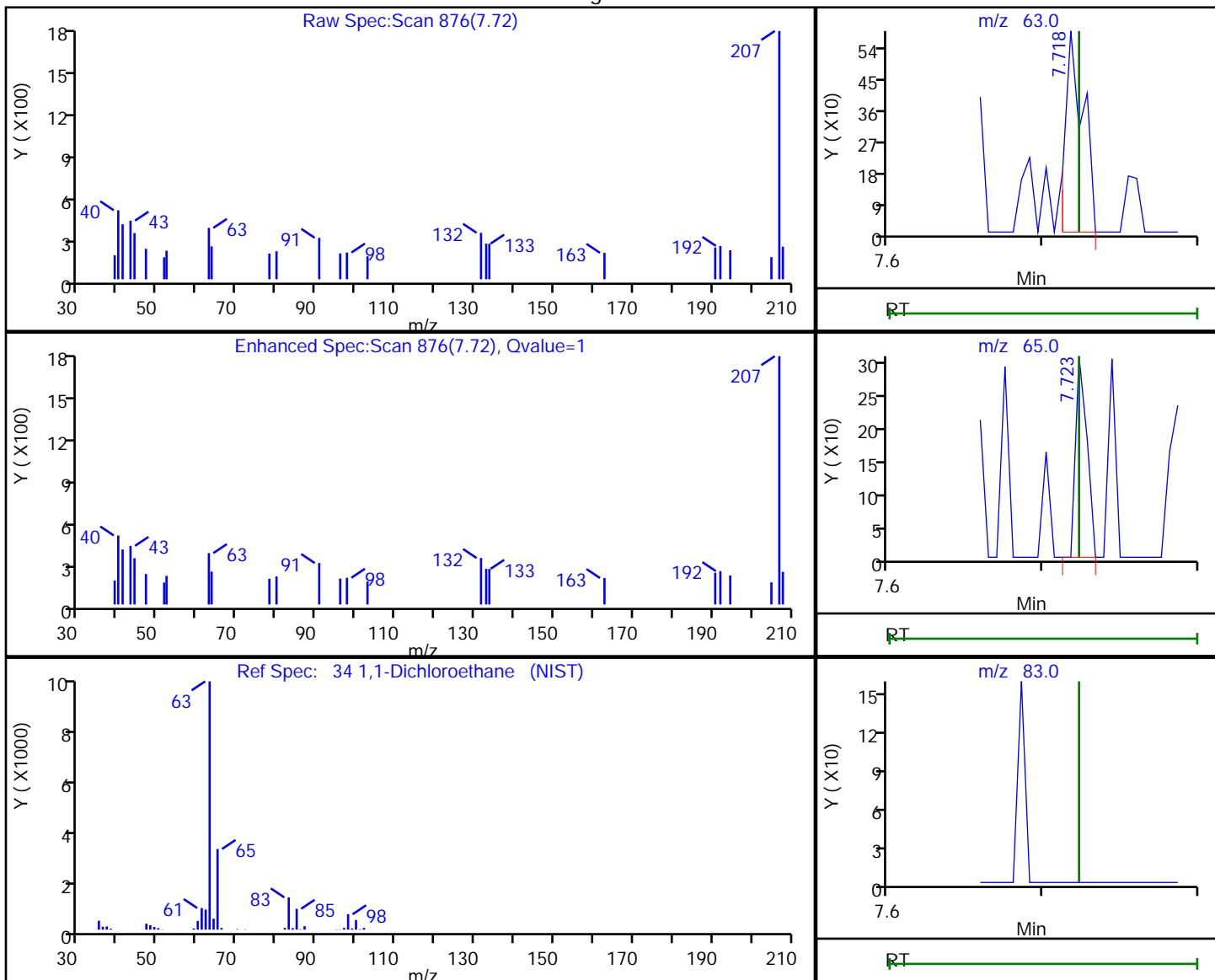
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.72 | 63.00 | 470      | 0.006545 |
| 7.72 | 65.00 | 154      |          |
| 7.72 | 83.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:06

Audit Action: Marked Compound Undetected

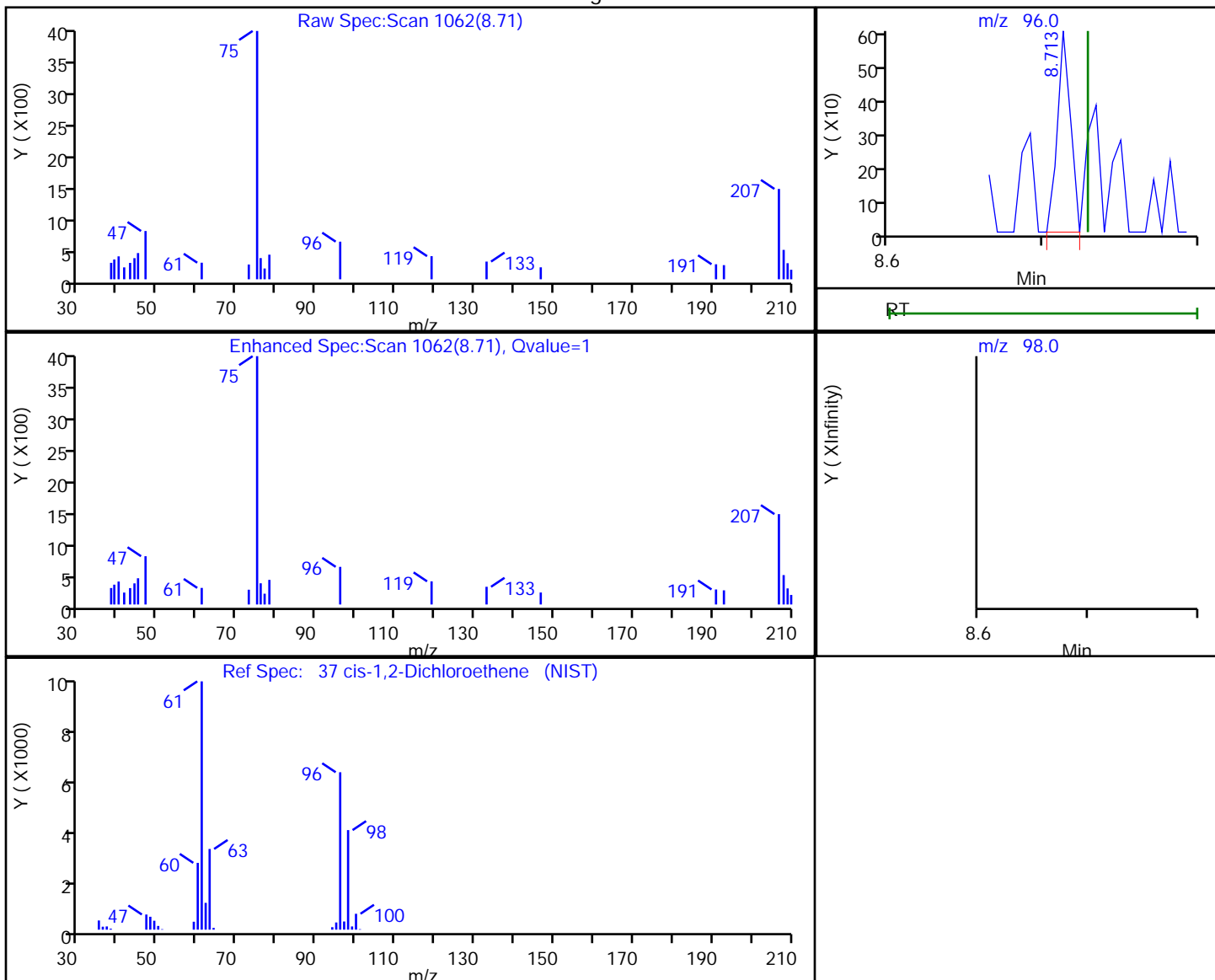
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.71 | 96.00 | 357      | 0.008206 |
| 8.72 | 98.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:07

Audit Action: Marked Compound Undetected

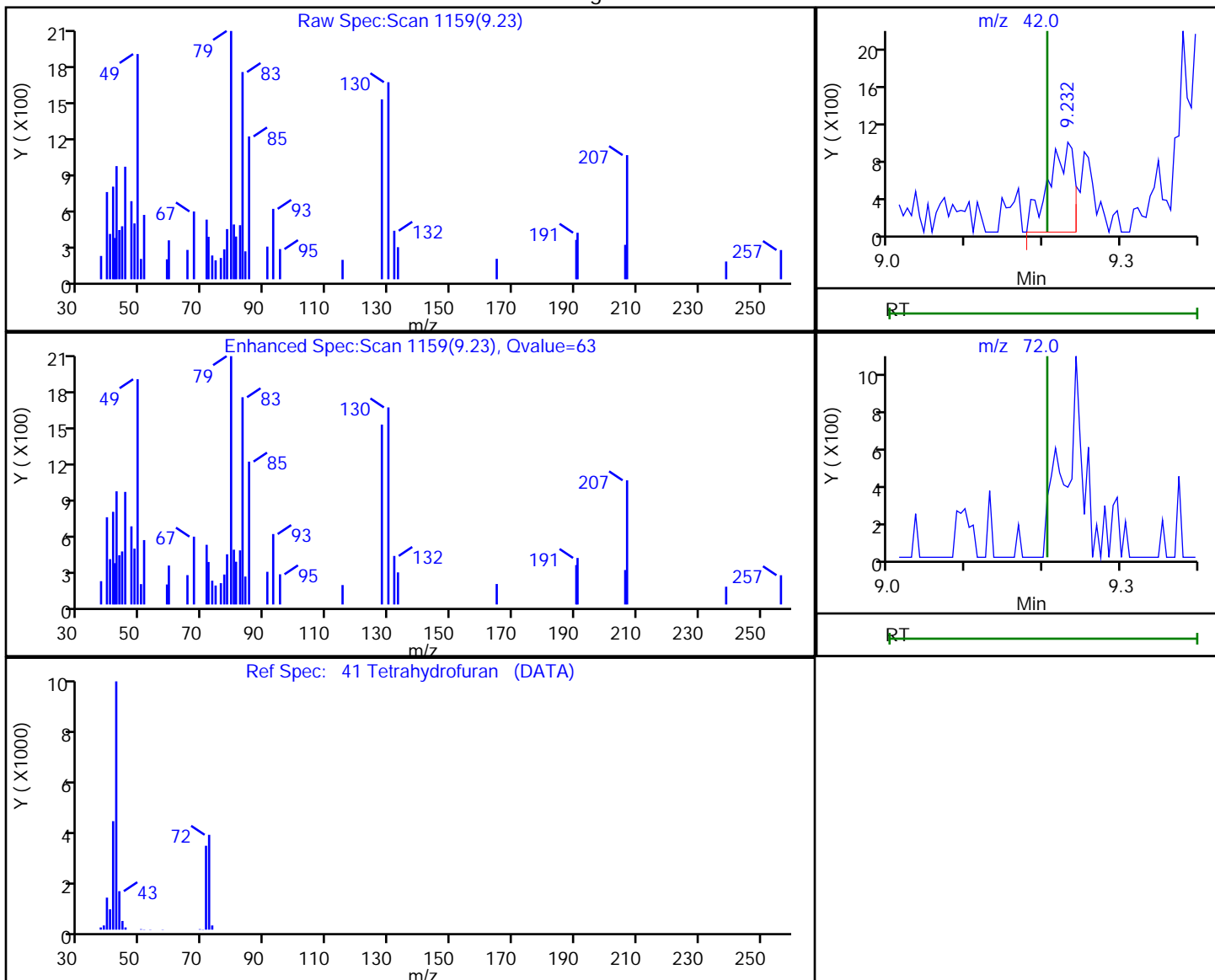
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.23 | 42.00 | 2190     | 0.096305 |
| 9.21 | 72.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:11

Audit Action: Marked Compound Undetected

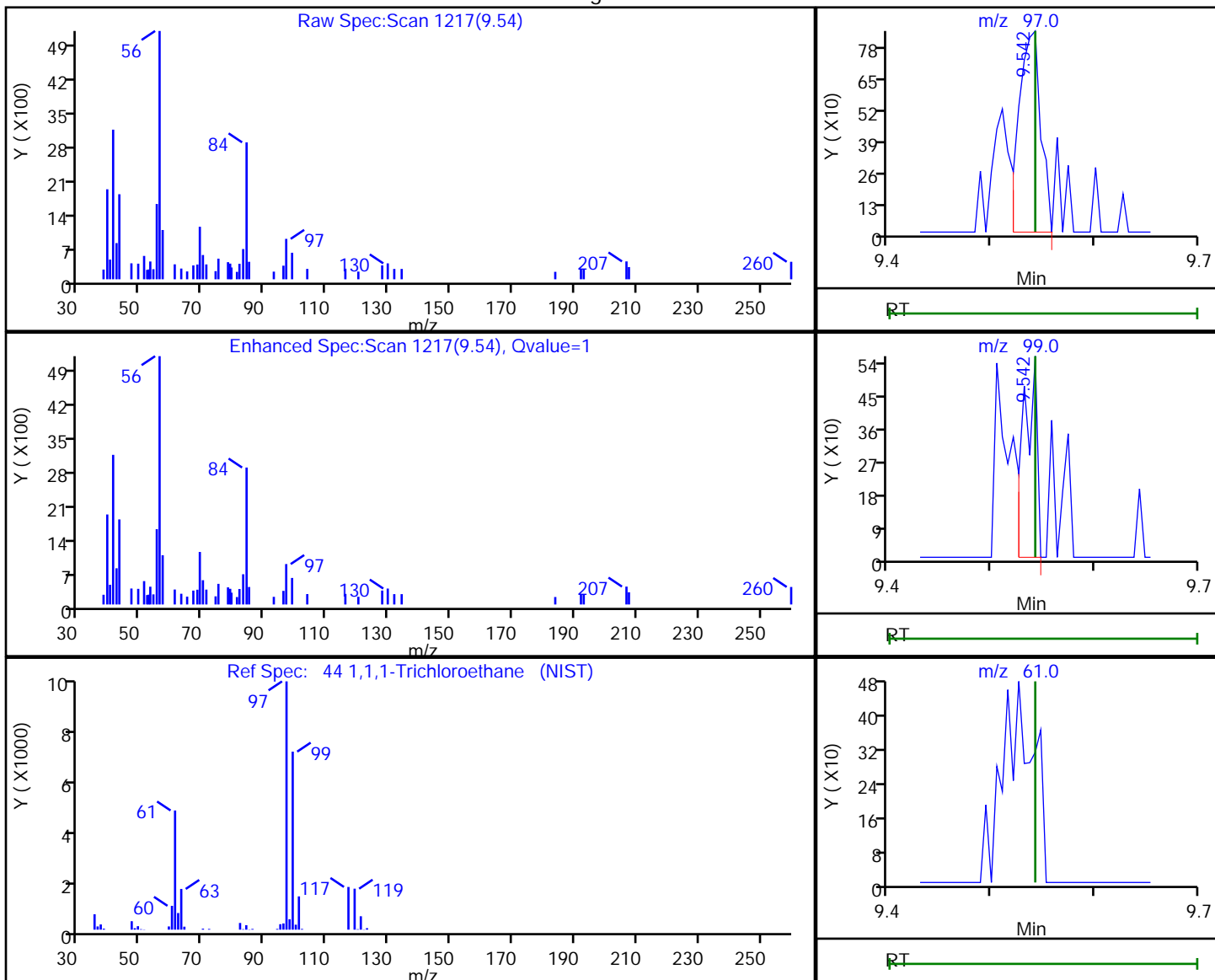
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.54 | 97.00 | 1233     | 0.011132 |
| 9.54 | 99.00 | 491      |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

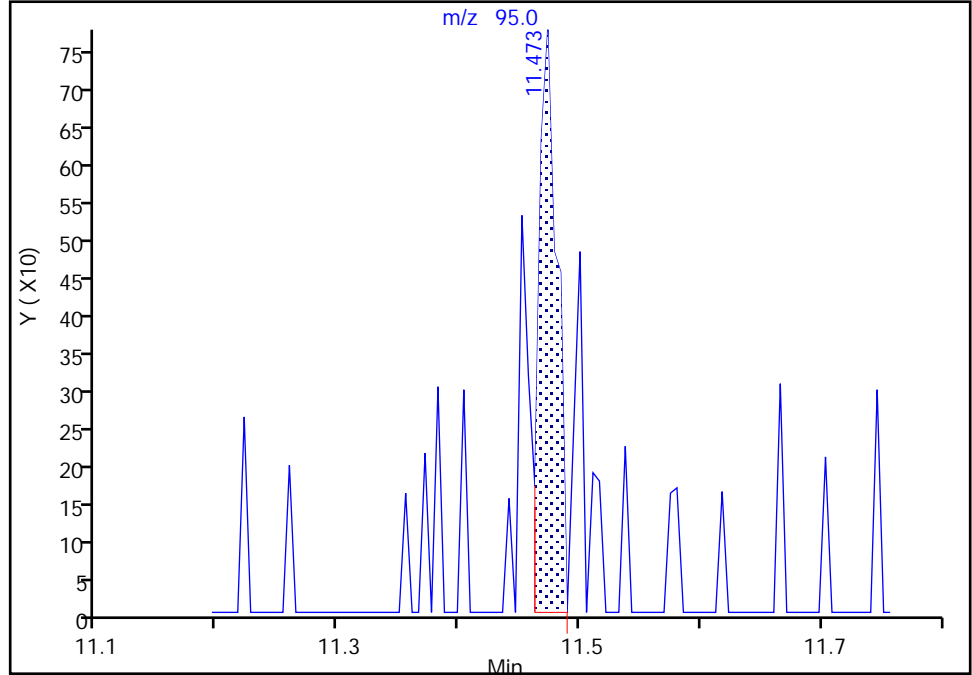
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Signal: 1

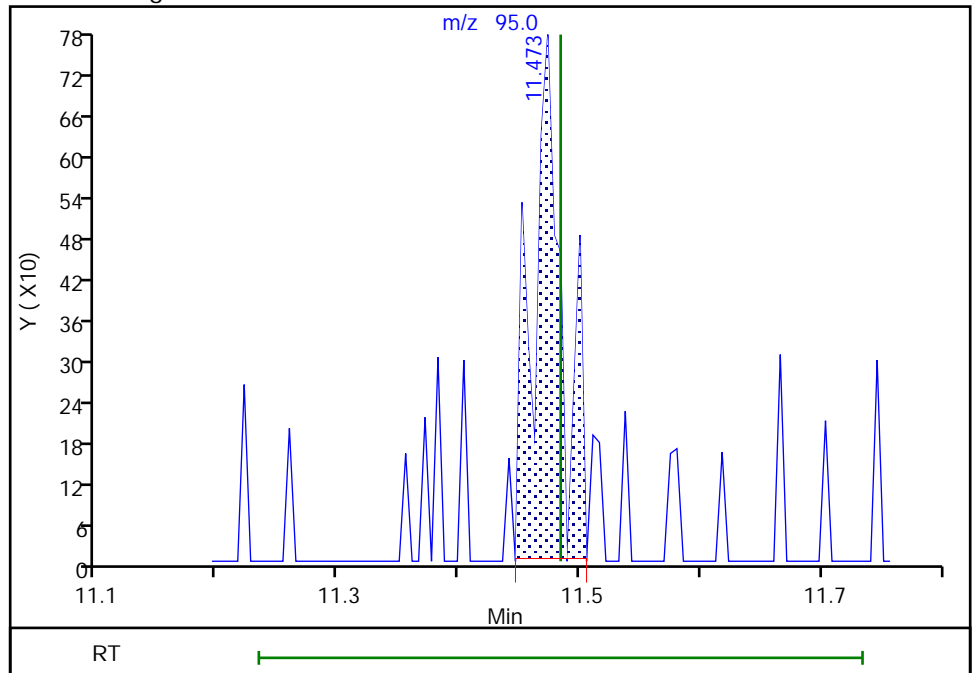
RT: 11.47  
Area: 801  
Amount: 0.011532  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.47  
Area: 1286  
Amount: 0.018514  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:07:30  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



TestAmerica Burlington

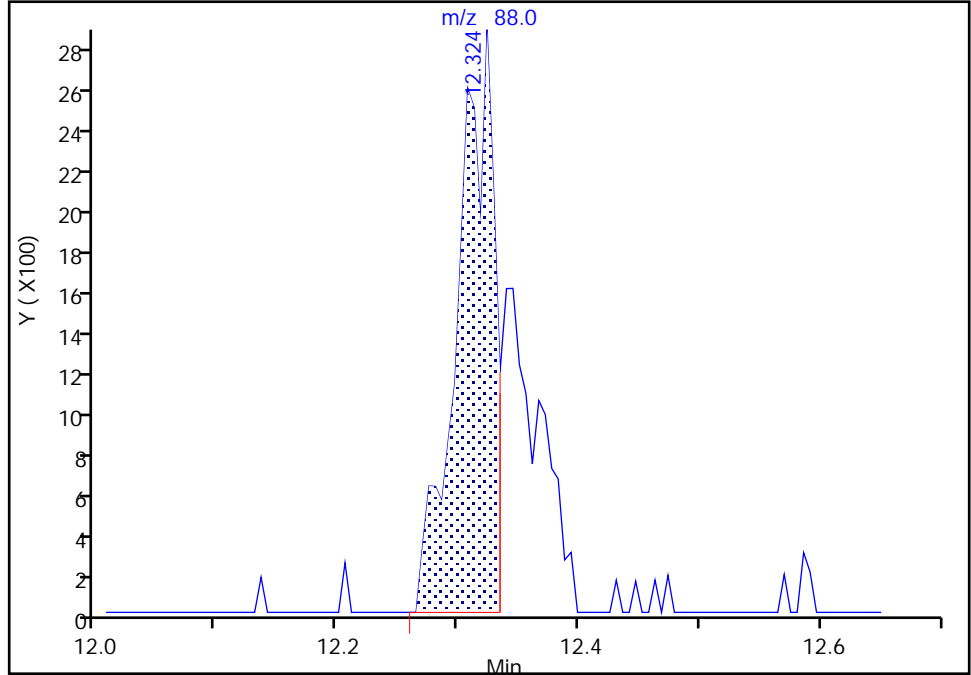
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

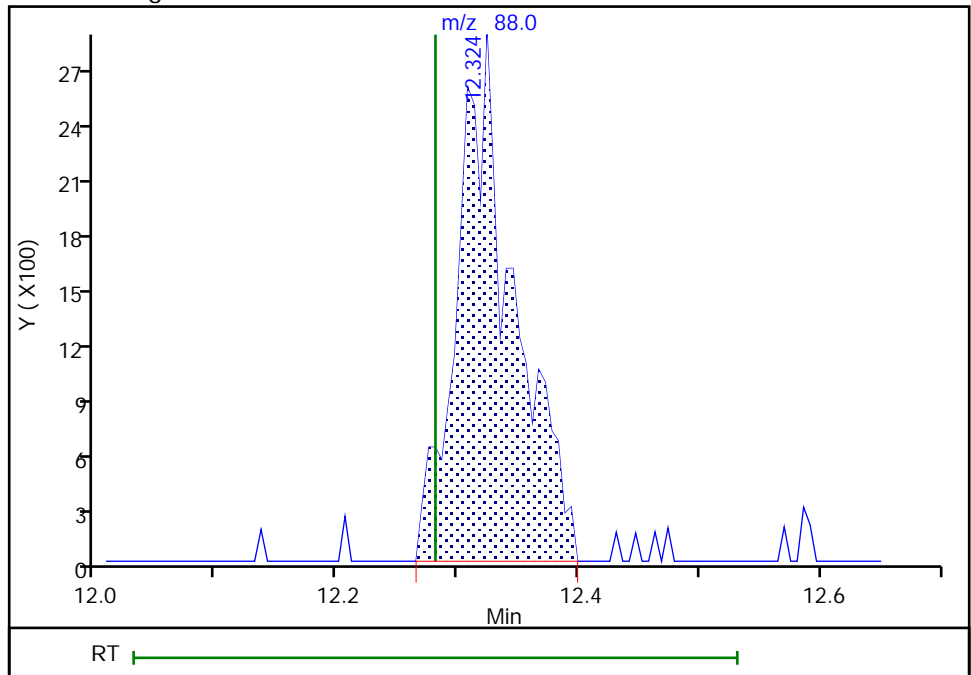
RT: 12.32  
Area: 5984  
Amount: 0.306696  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.32  
Area: 9176  
Amount: 0.470294  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:07:39

Audit Action: Manually Integrated

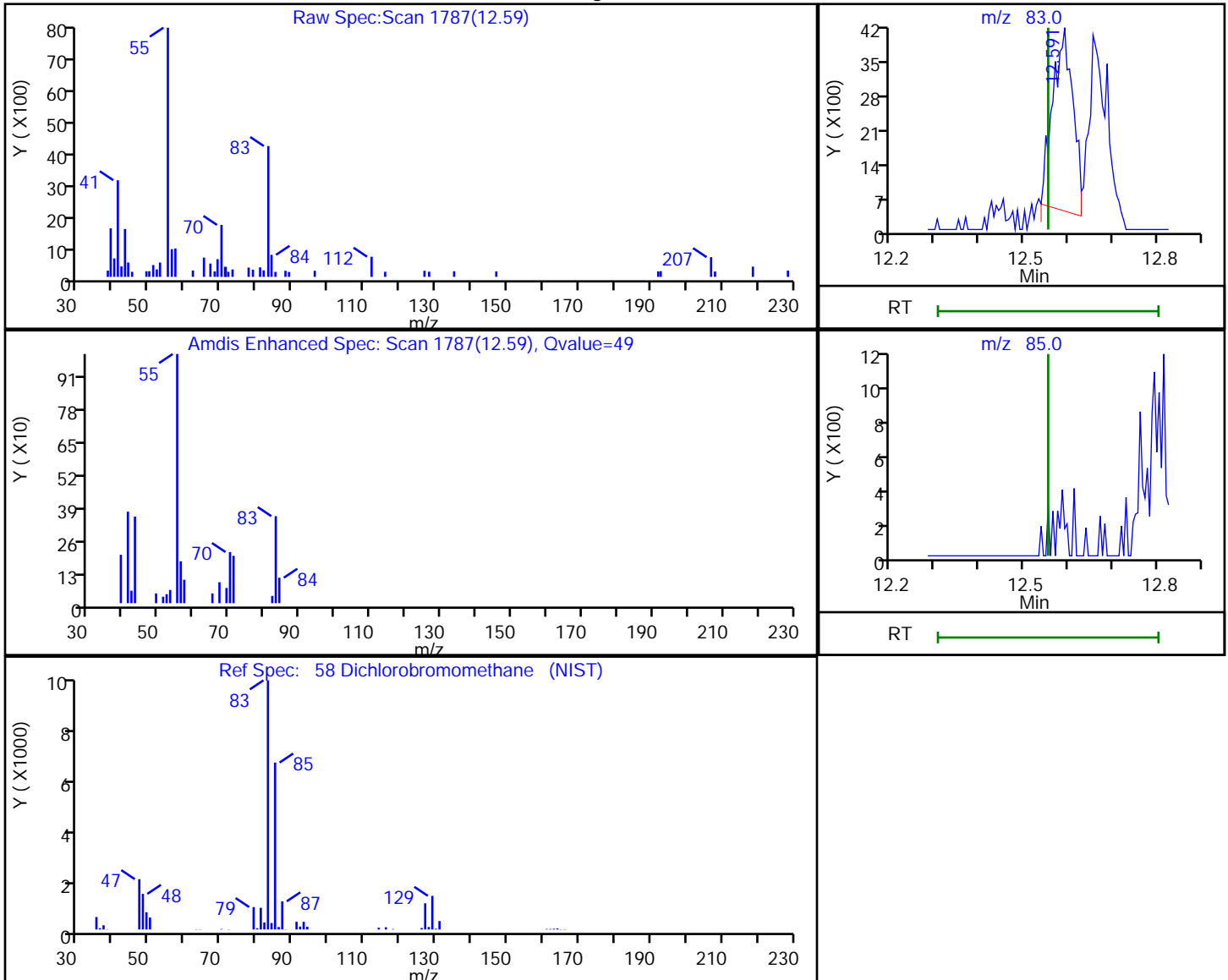
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.59 | 83.00 | 12000    | 0.111248 |
| 12.55 | 85.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:44

Audit Action: Marked Compound Undetected

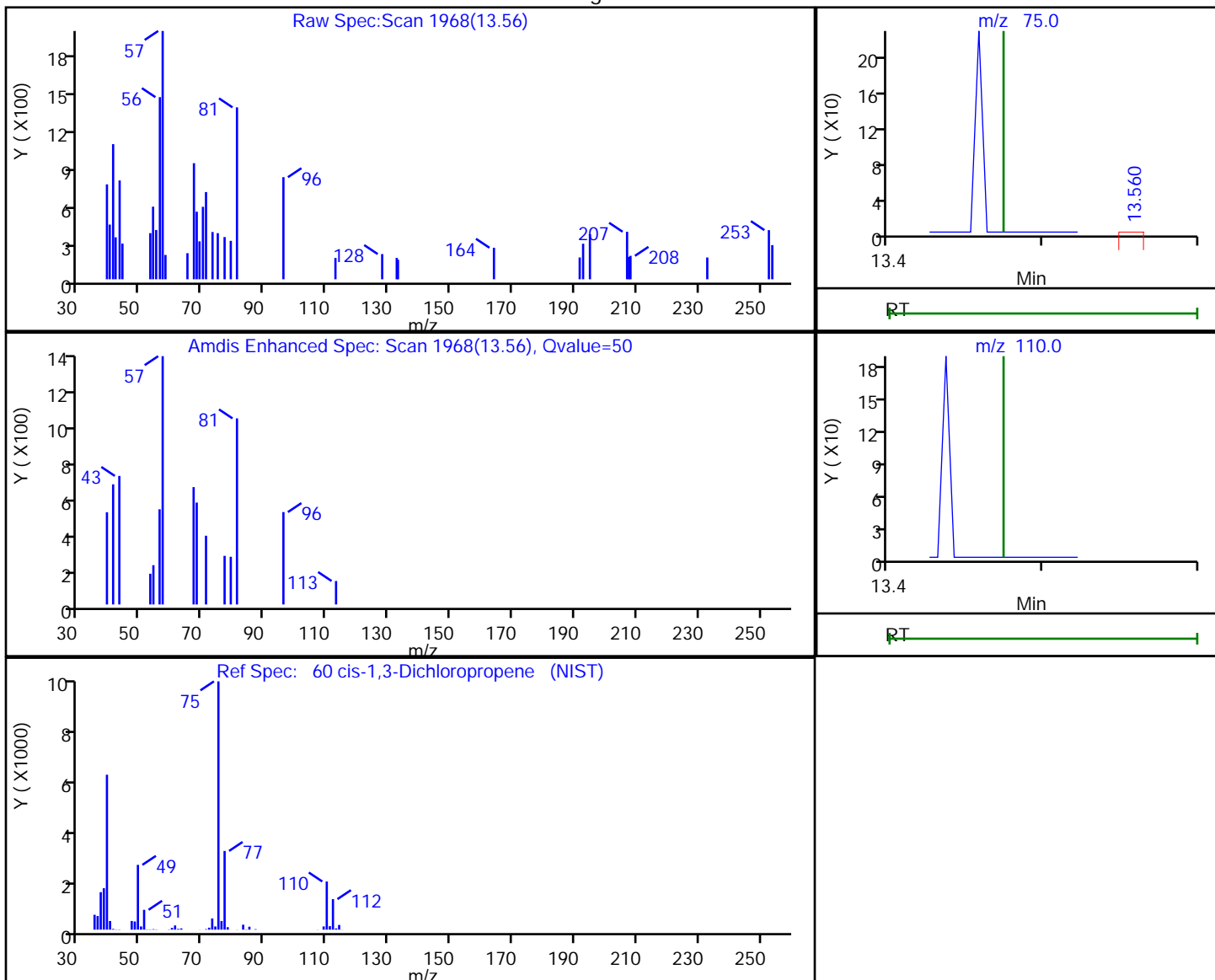
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.56 | 75.00  | 213      | 0.003189 |
| 13.47 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:45

Audit Action: Marked Compound Undetected

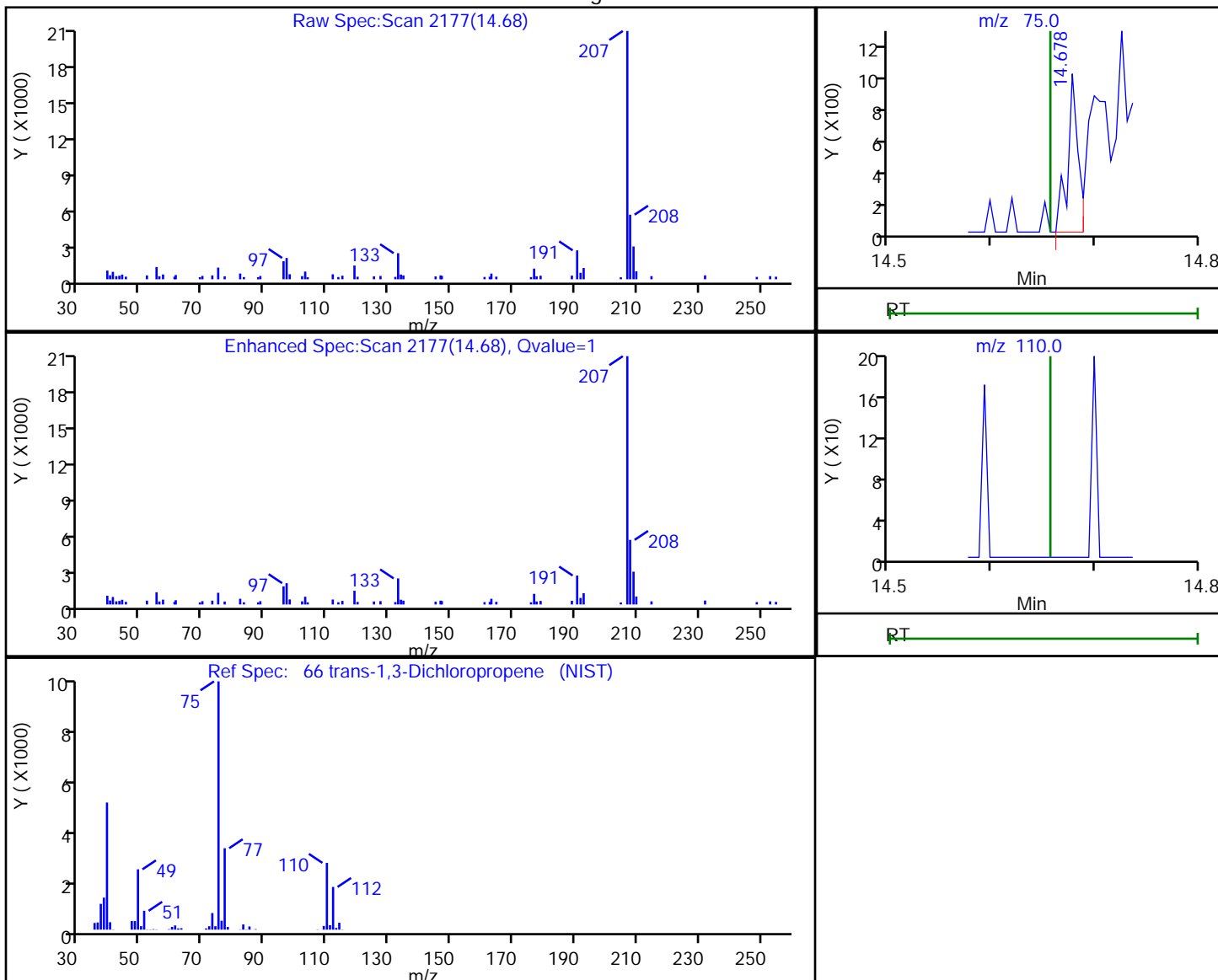
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.68 | 75.00  | 684      | 0.010413 |
| 14.65 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:49

Audit Action: Marked Compound Undetected

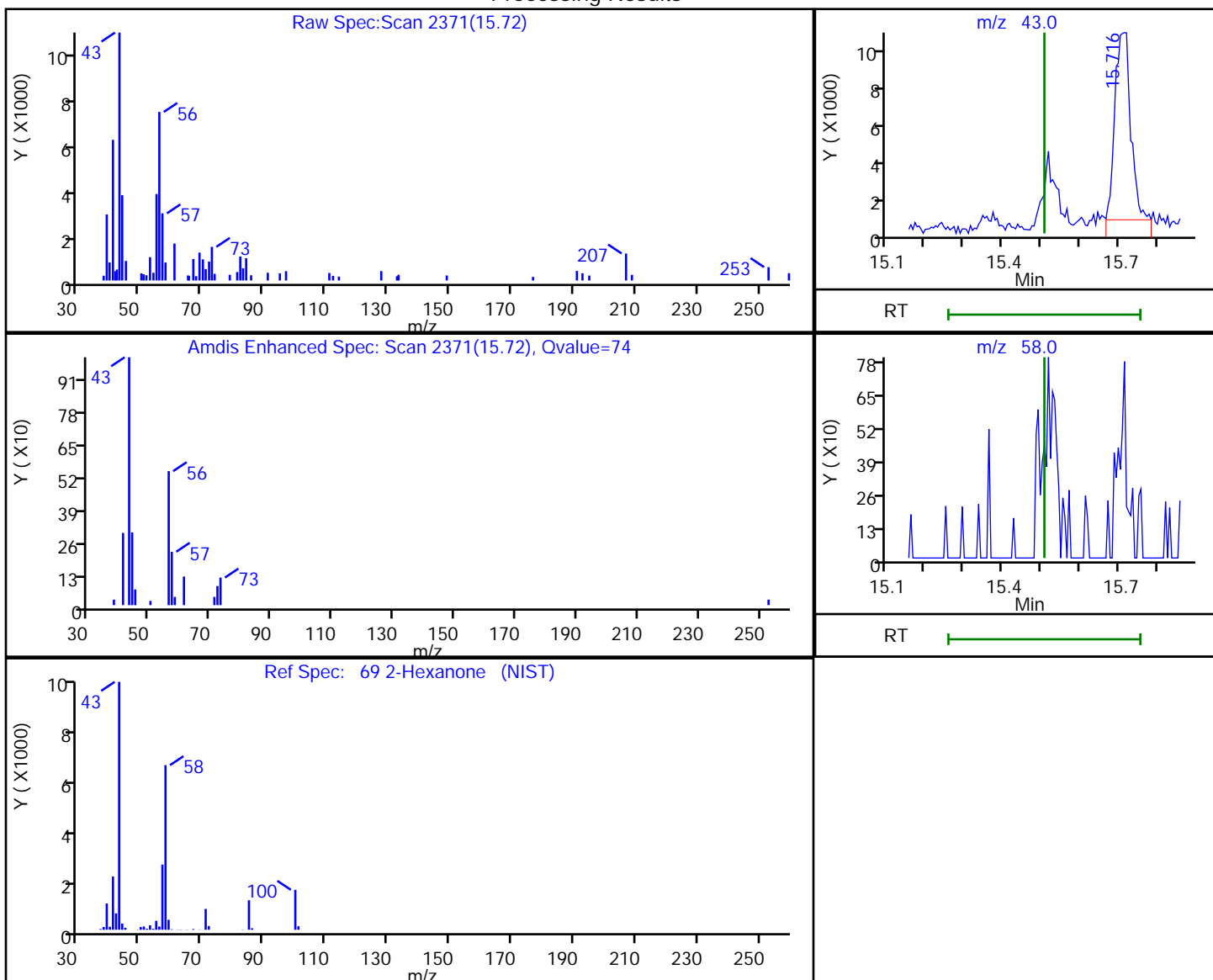
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.72 | 43.00 | 28506    | 0.382348 |
| 15.51 | 58.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:52

Audit Action: Marked Compound Undetected

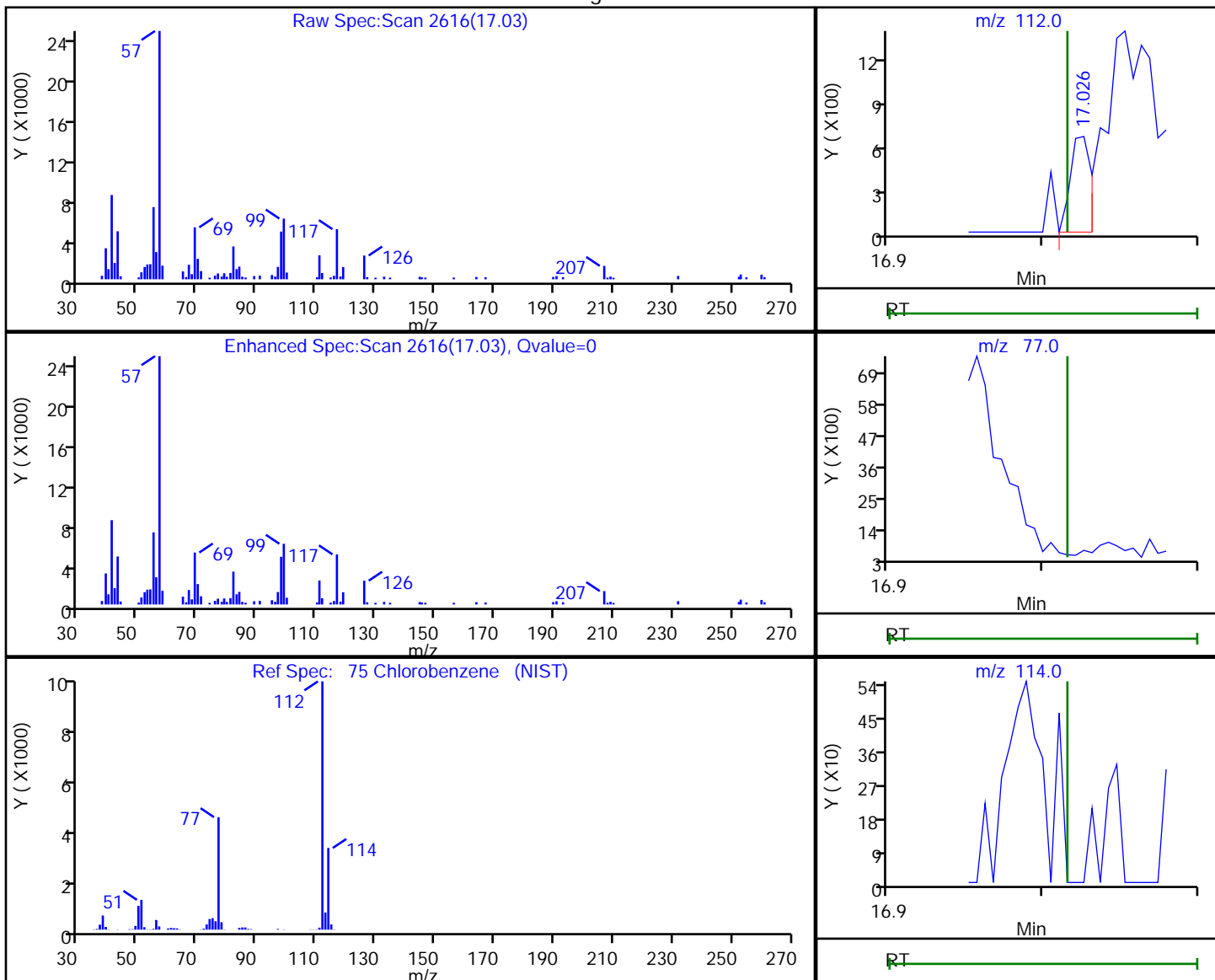
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.03 | 112.00 | 591      | 0.004530 |
| 17.02 | 77.00  | 0        |          |
| 17.02 | 114.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:07:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

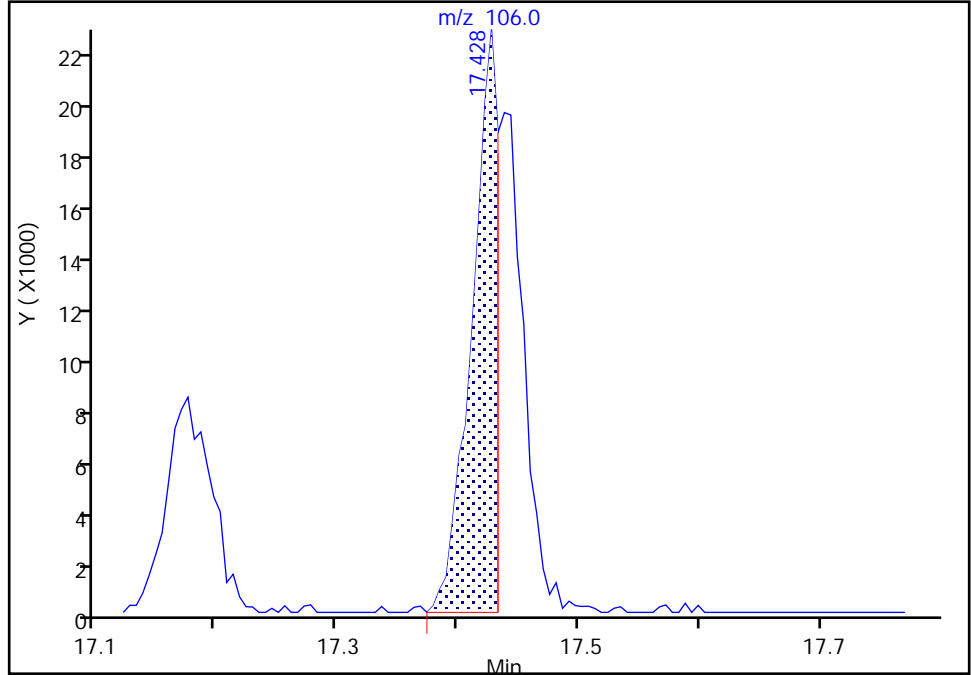
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

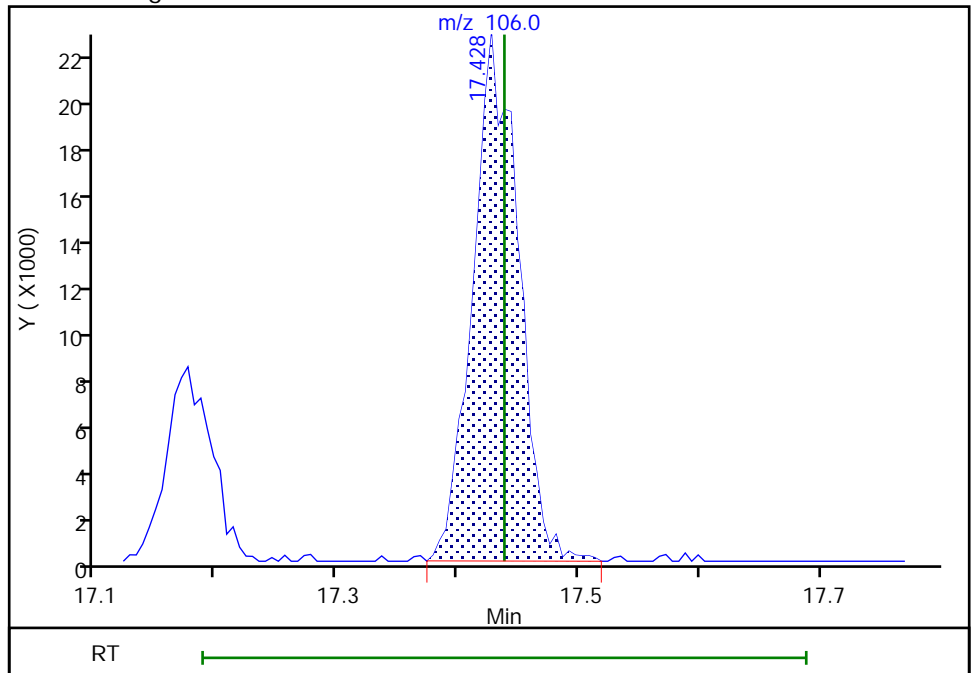
RT: 17.43  
Area: 34193  
Amount: 0.441610  
Amount Units: ppb v/v

Processing Integration Results



RT: 17.43  
Area: 59112  
Amount: 0.763445  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 17:08:02

Audit Action: Manually Integrated

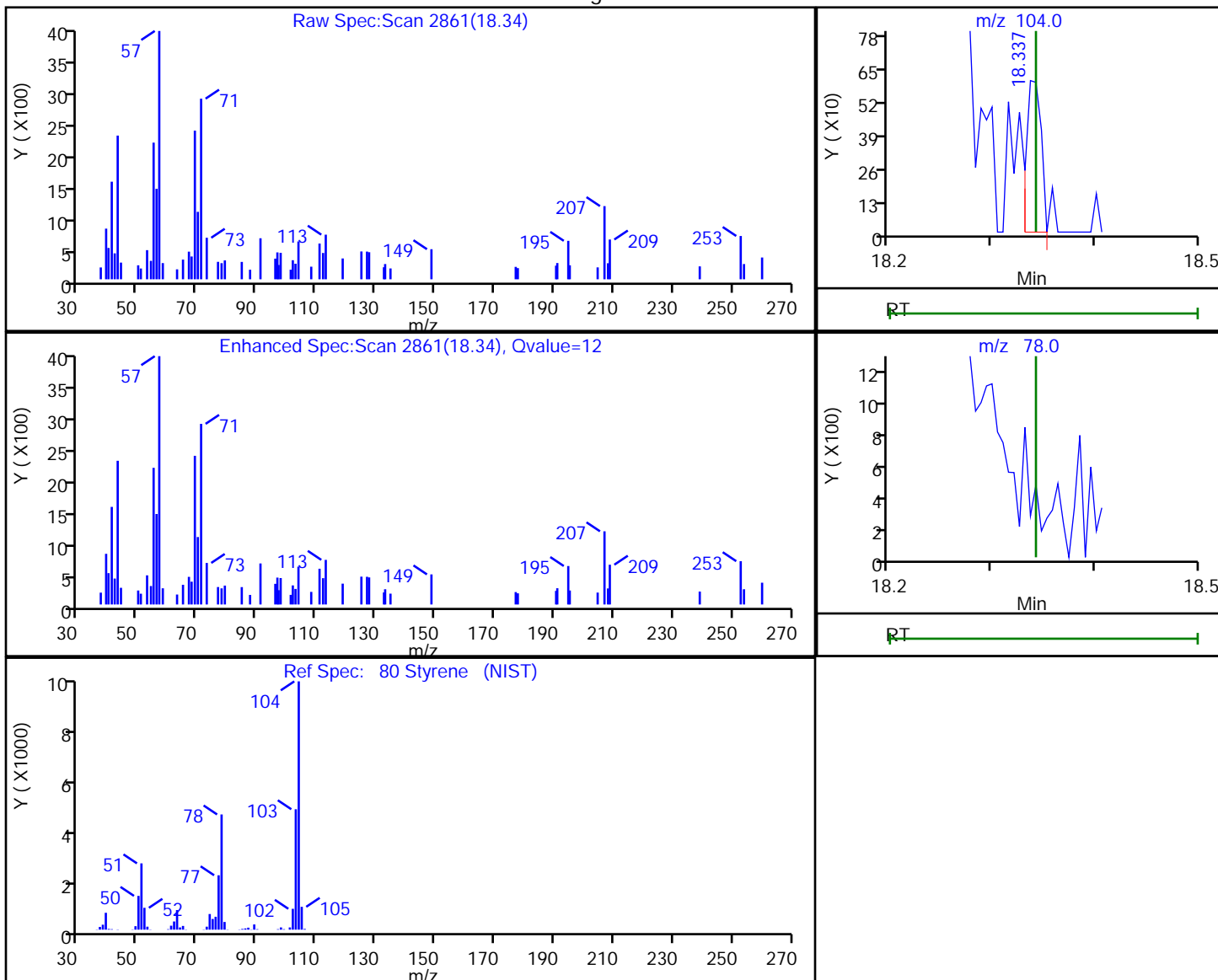
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.34 | 104.00 | 592      | 0.005255 |
| 18.34 | 78.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

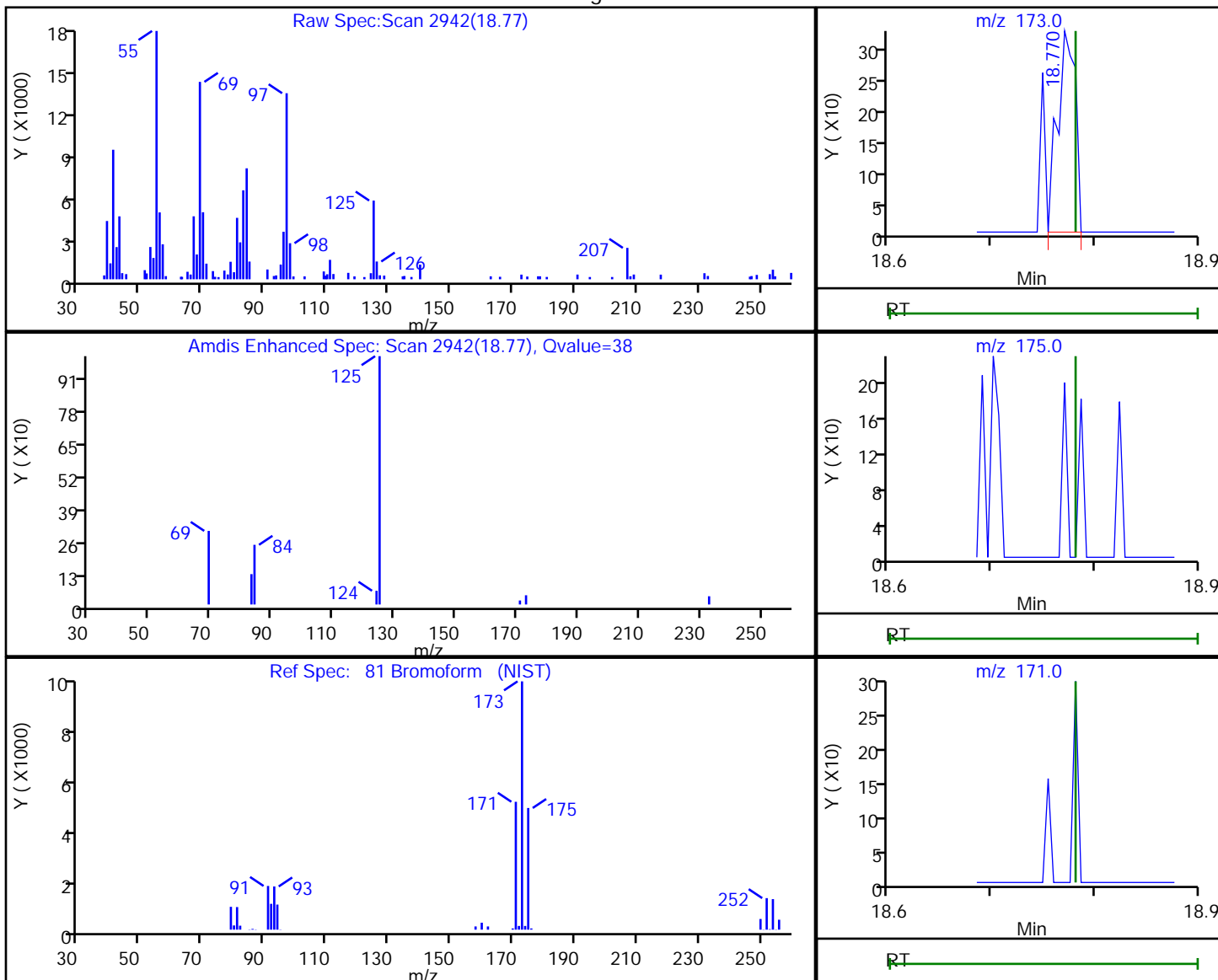


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Bromoform, CAS: 75-25-2

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.77 | 173.00 | 393      | 0.003540 |
| 18.78 | 175.00 | 0        |          |
| 18.78 | 171.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:07

Audit Action: Marked Compound Undetected

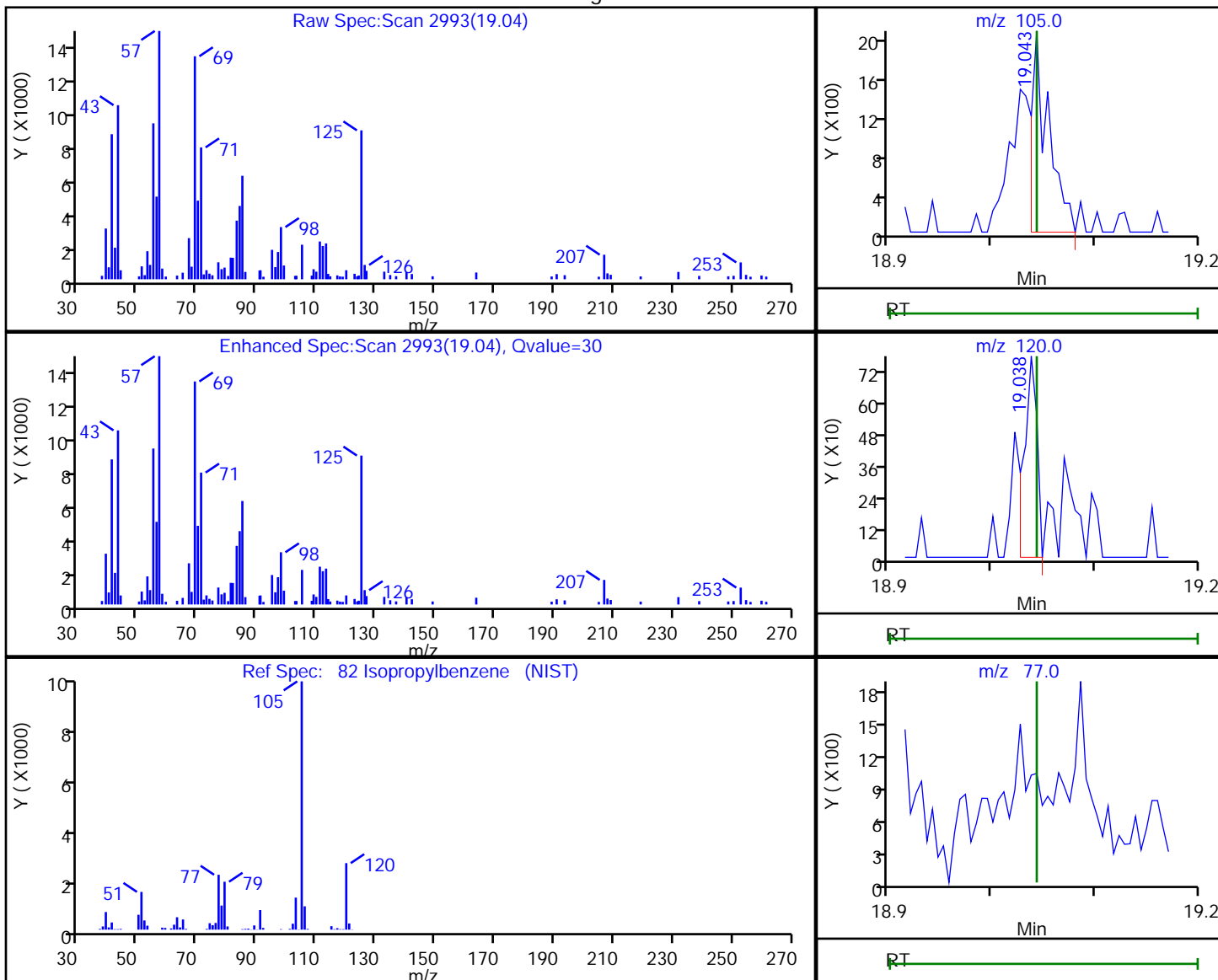
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.04 | 105.00 | 2373     | 0.011029 |
| 19.04 | 120.00 | 664      |          |
| 19.04 | 77.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:11

Audit Action: Marked Compound Undetected

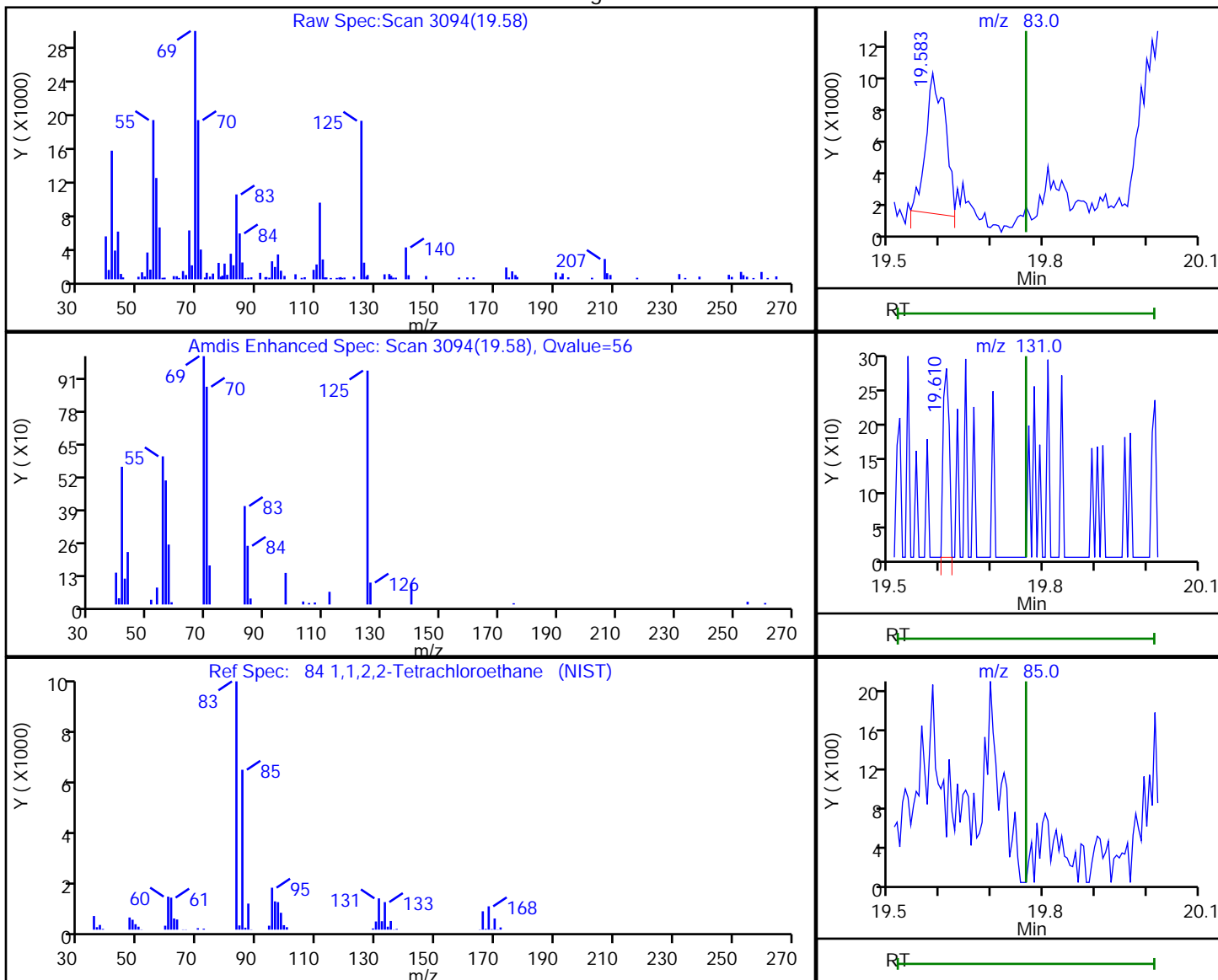
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.58 | 83.00  | 22723    | 0.193550 |
| 19.61 | 131.00 | 225      |          |
| 19.76 | 85.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:12

Audit Action: Marked Compound Undetected

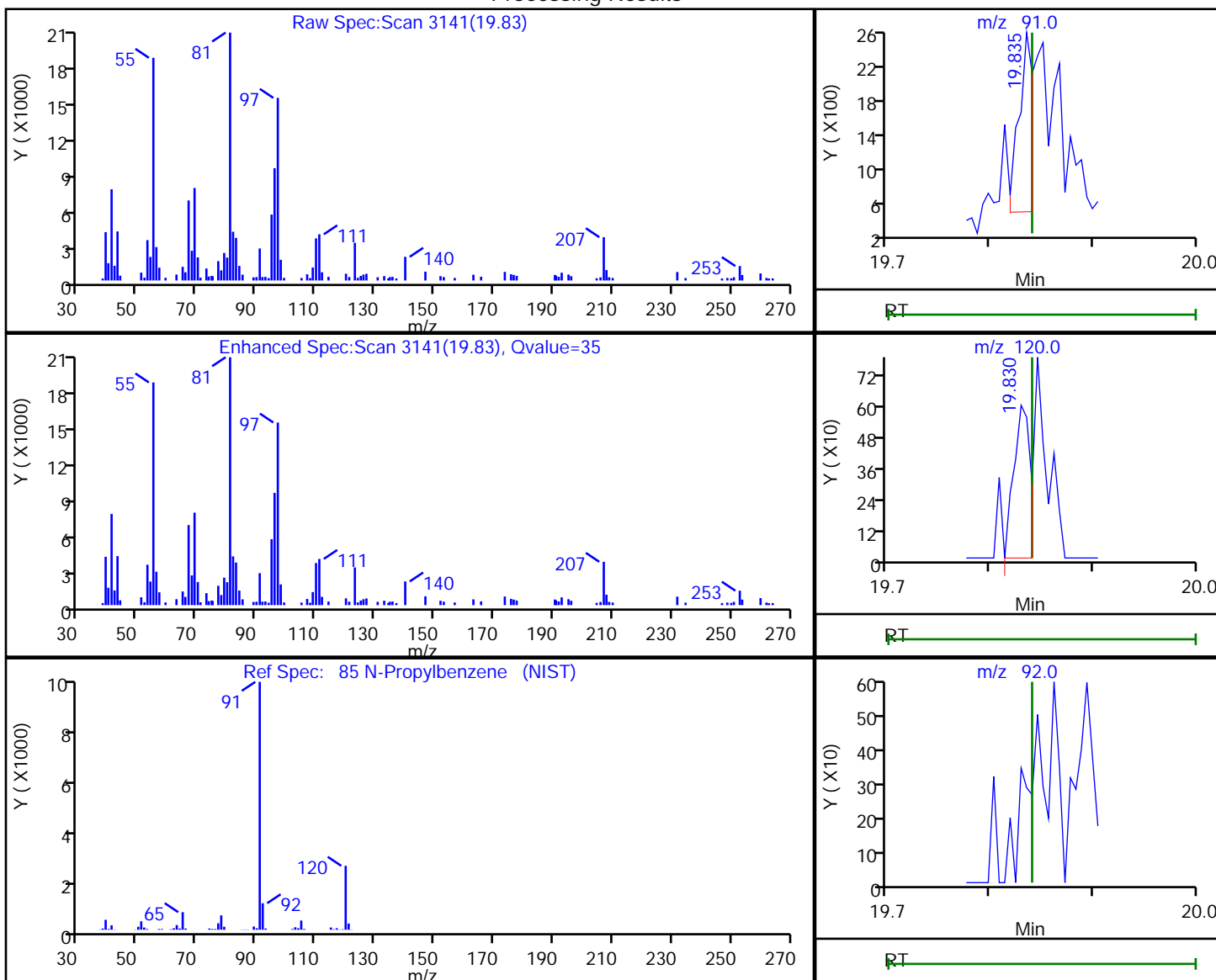
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.83 | 91.00  | 1918     | 0.007486 |
| 19.83 | 120.00 | 665      |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:14

Audit Action: Marked Compound Undetected

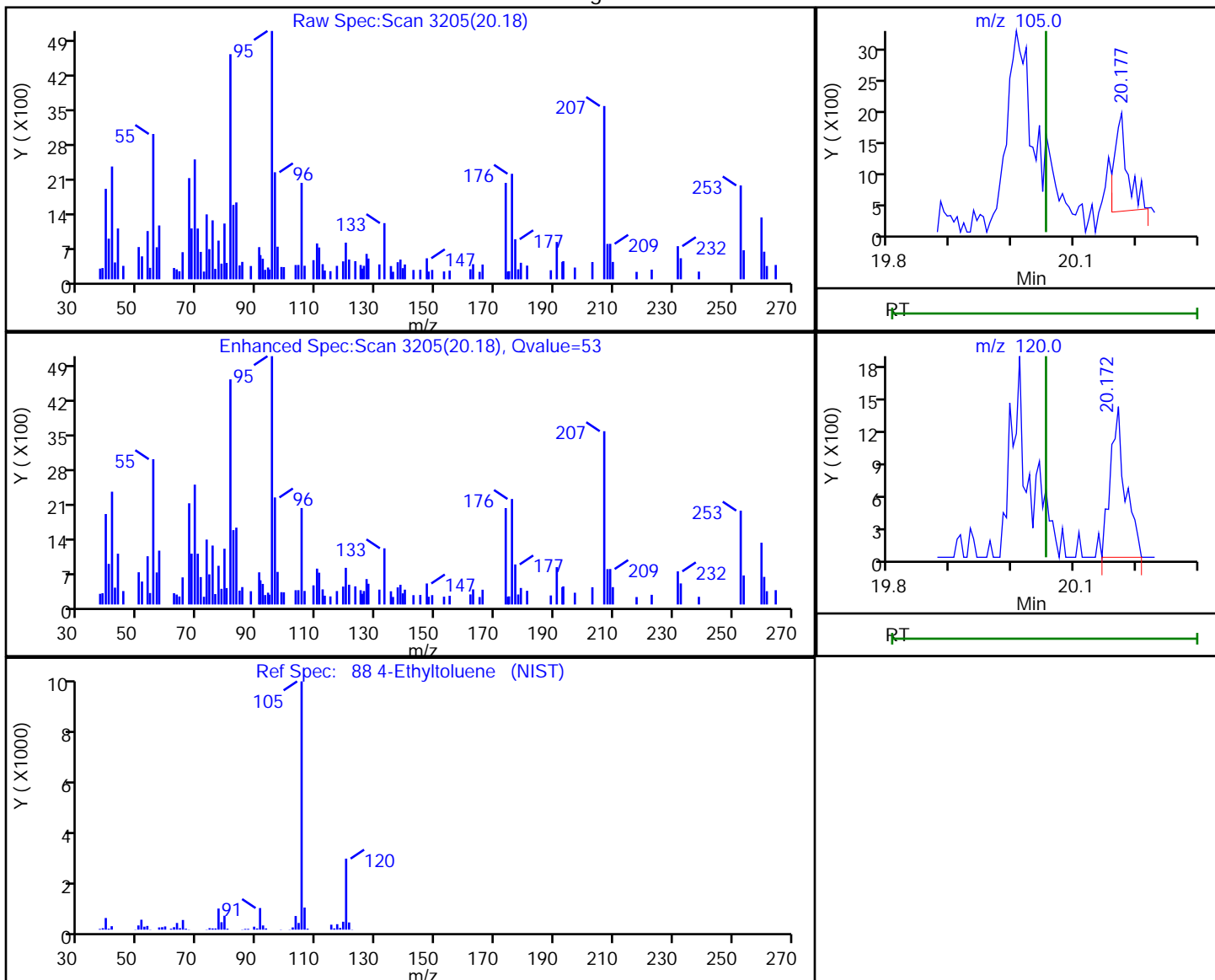
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.18 | 105.00 | 2312     | 0.010600 |
| 20.17 | 120.00 | 2299     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:19

Audit Action: Marked Compound Undetected

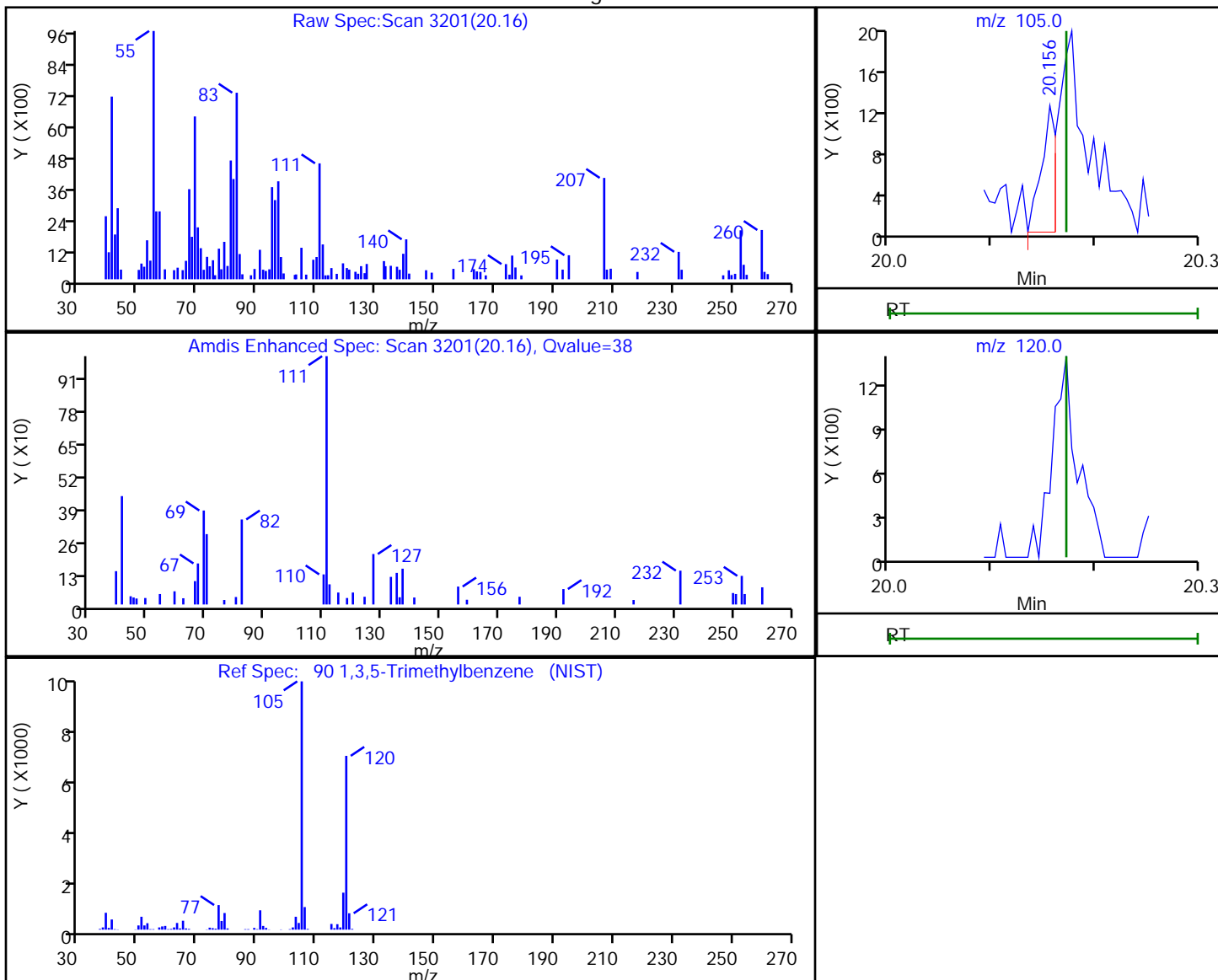
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.16 | 105.00 | 1192     | 0.006387 |
| 20.17 | 120.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:20

Audit Action: Marked Compound Undetected

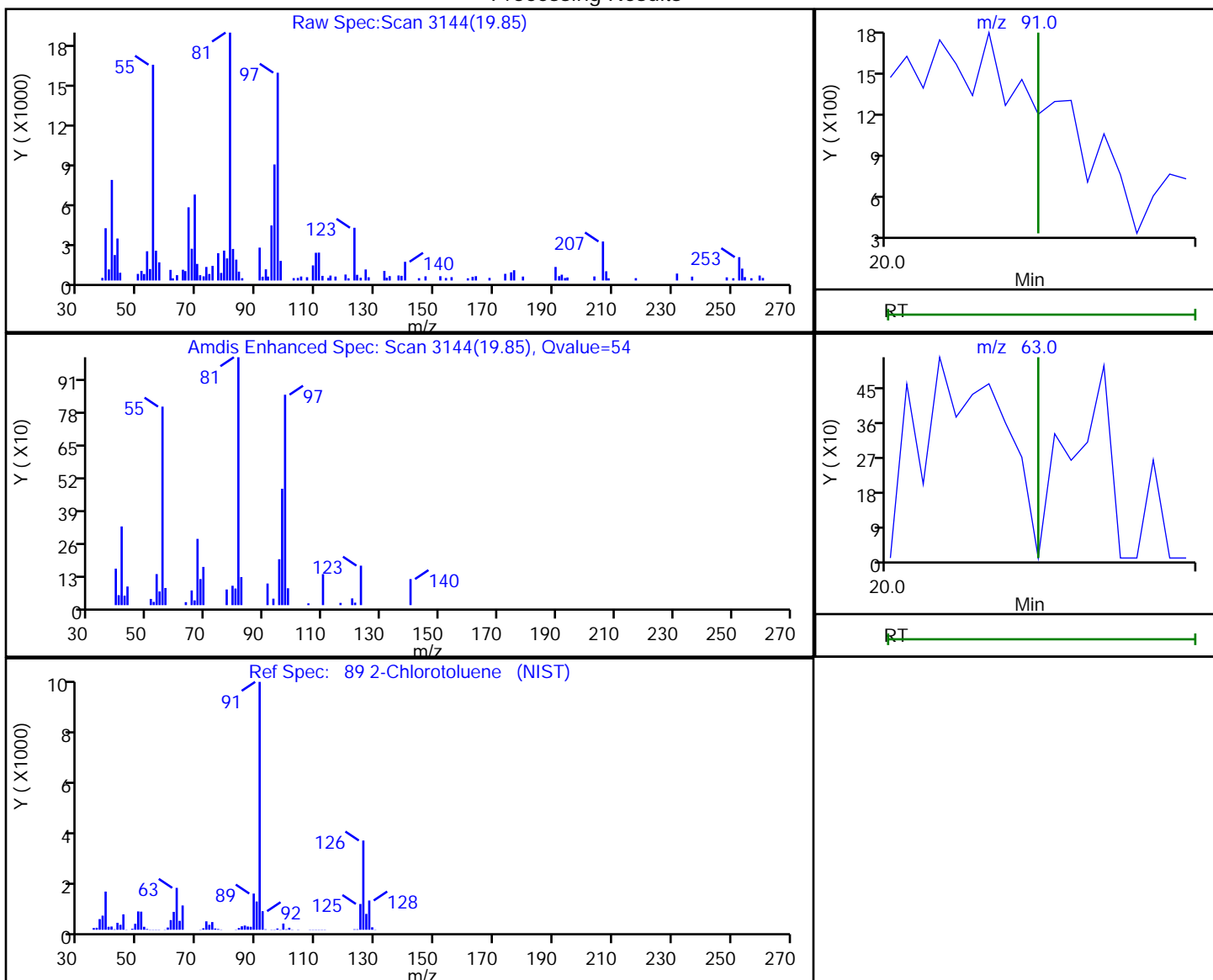
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 19.85 | 91.00 | 1964     | 0.010150 |
| 20.04 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:17

Audit Action: Marked Compound Undetected

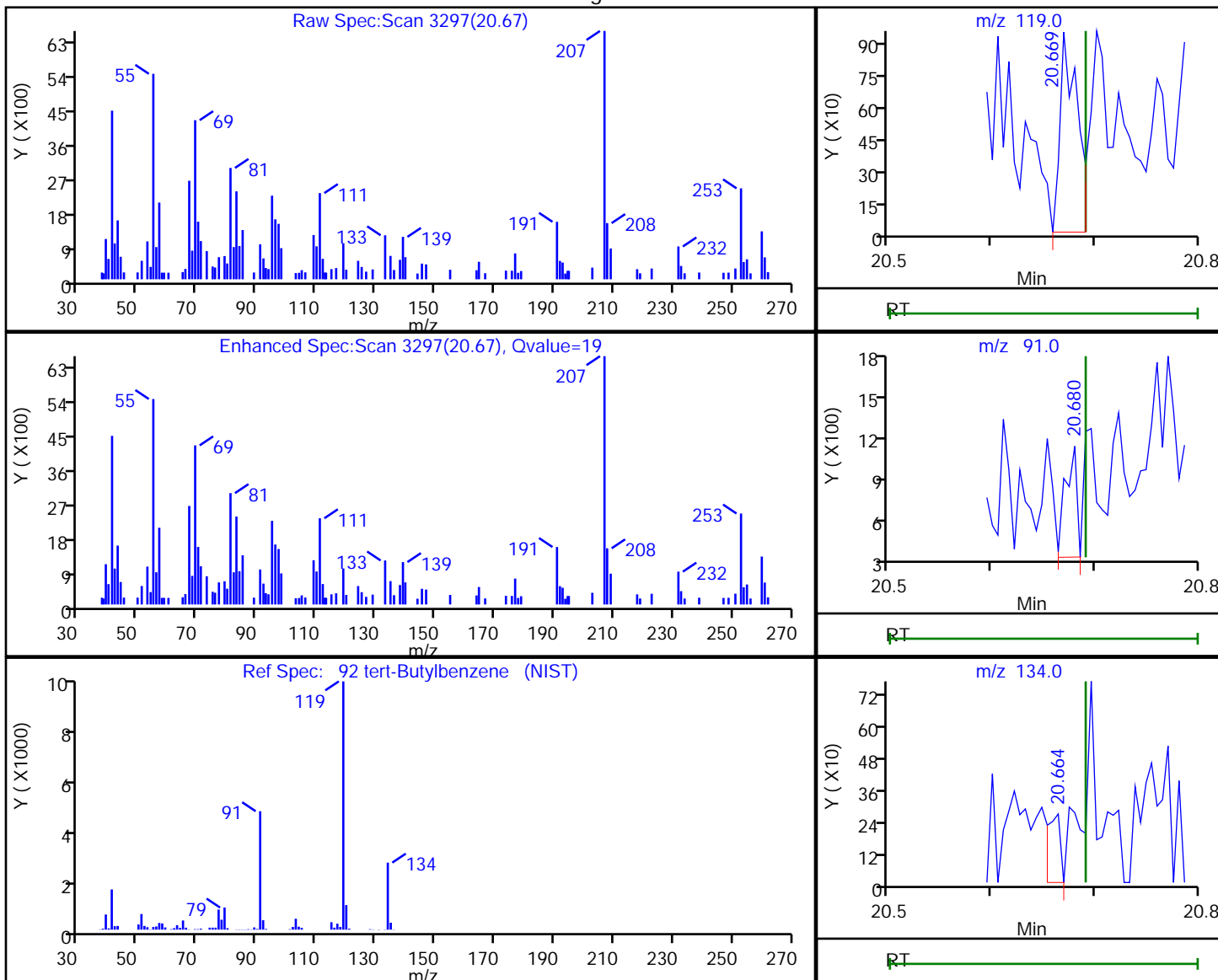
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.67 | 119.00 | 1127     | 0.006456 |
| 20.68 | 91.00  | 603      |          |
| 20.66 | 134.00 | 228      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

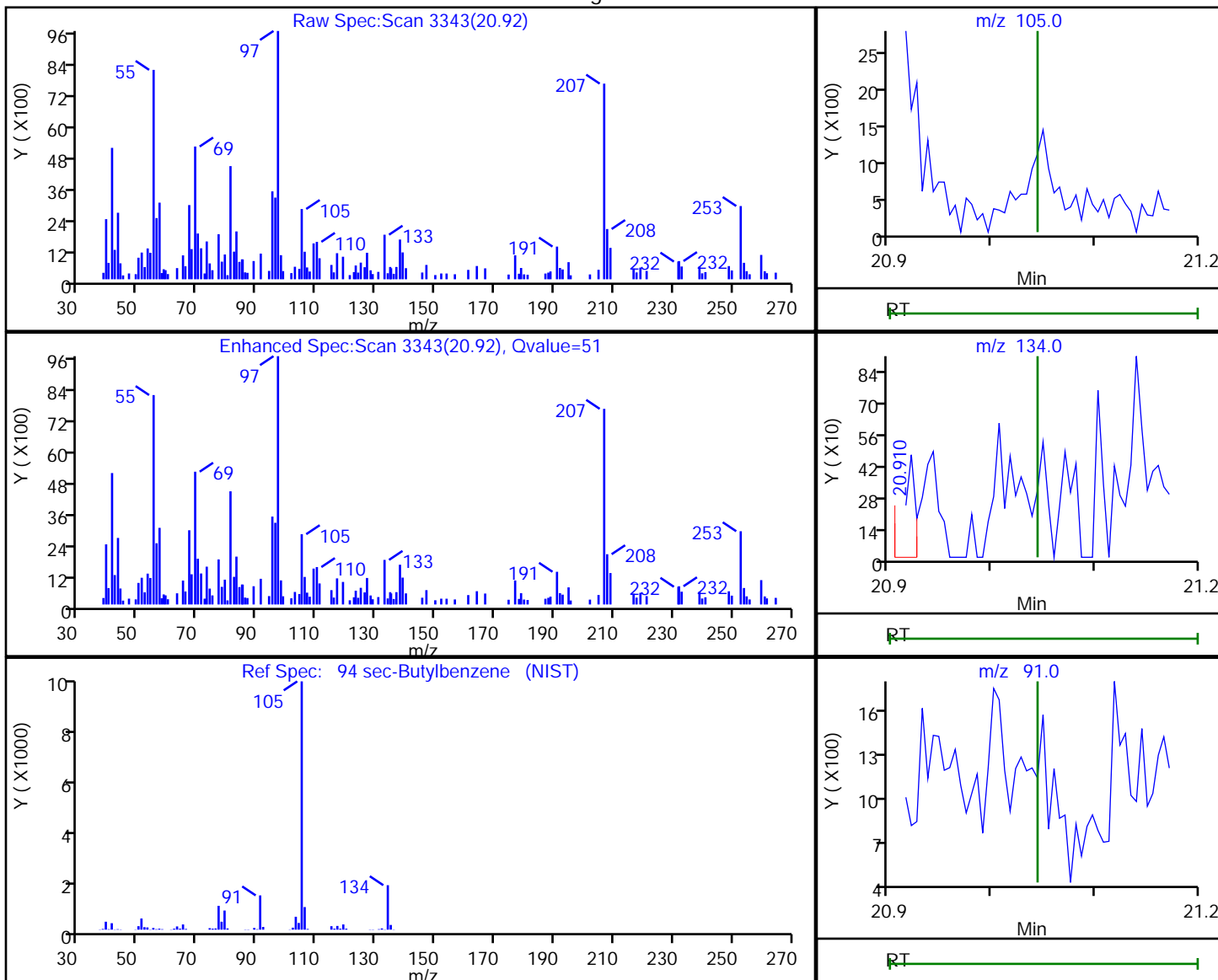


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.92 | 105.00 | 3075     | 0.011880 |
| 20.91 | 134.00 | 554      |          |
| 20.92 | 91.00  | 354      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:25

Audit Action: Marked Compound Undetected

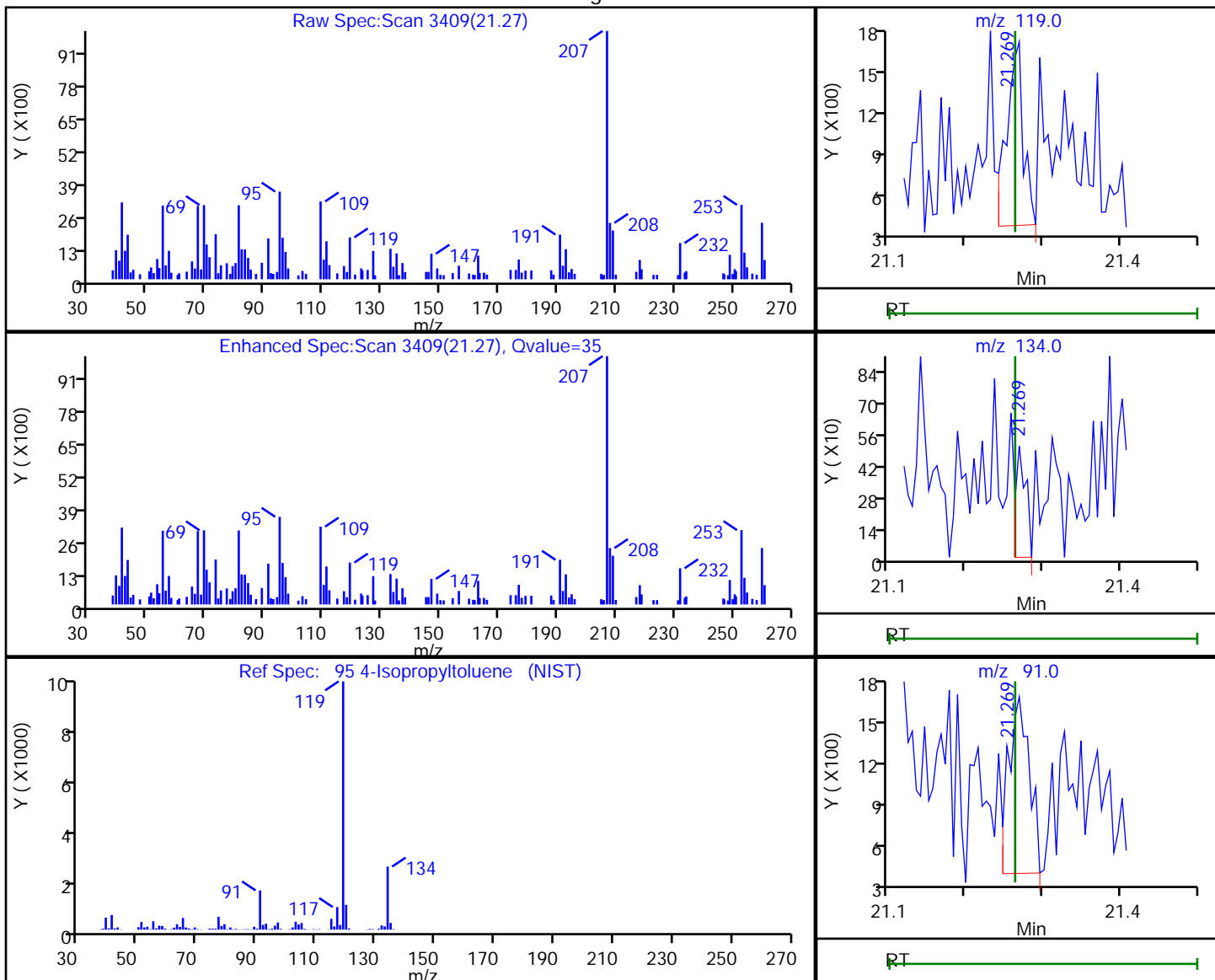
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.27 | 119.00 | 1874     | 0.008447 |
| 21.27 | 134.00 | 461      |          |
| 21.27 | 91.00  | 2231     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:26

Audit Action: Marked Compound Undetected

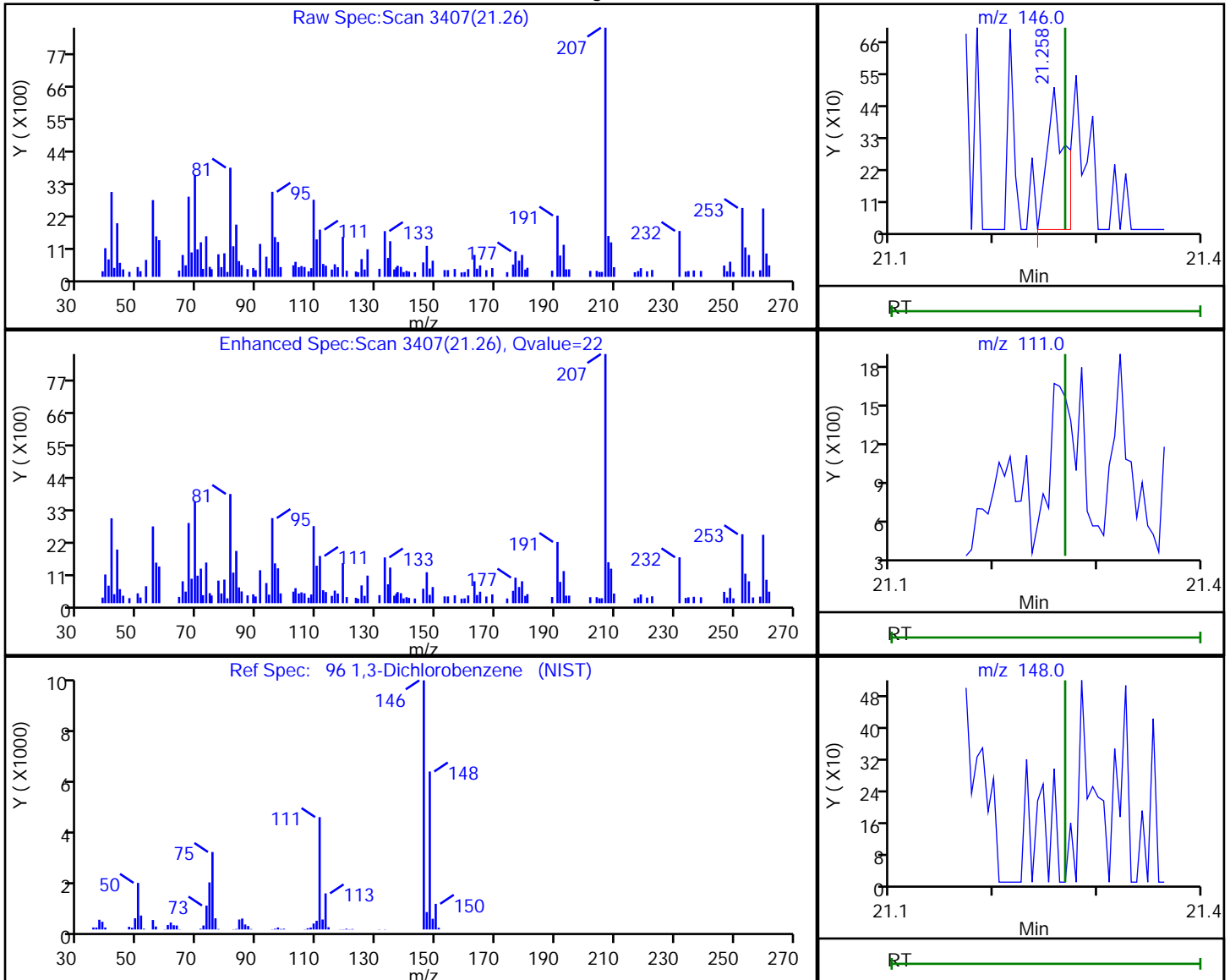
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.26 | 146.00 | 583      | 0.003907 |
| 21.27 | 111.00 | 0        |          |
| 21.27 | 148.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:28

Audit Action: Marked Compound Undetected

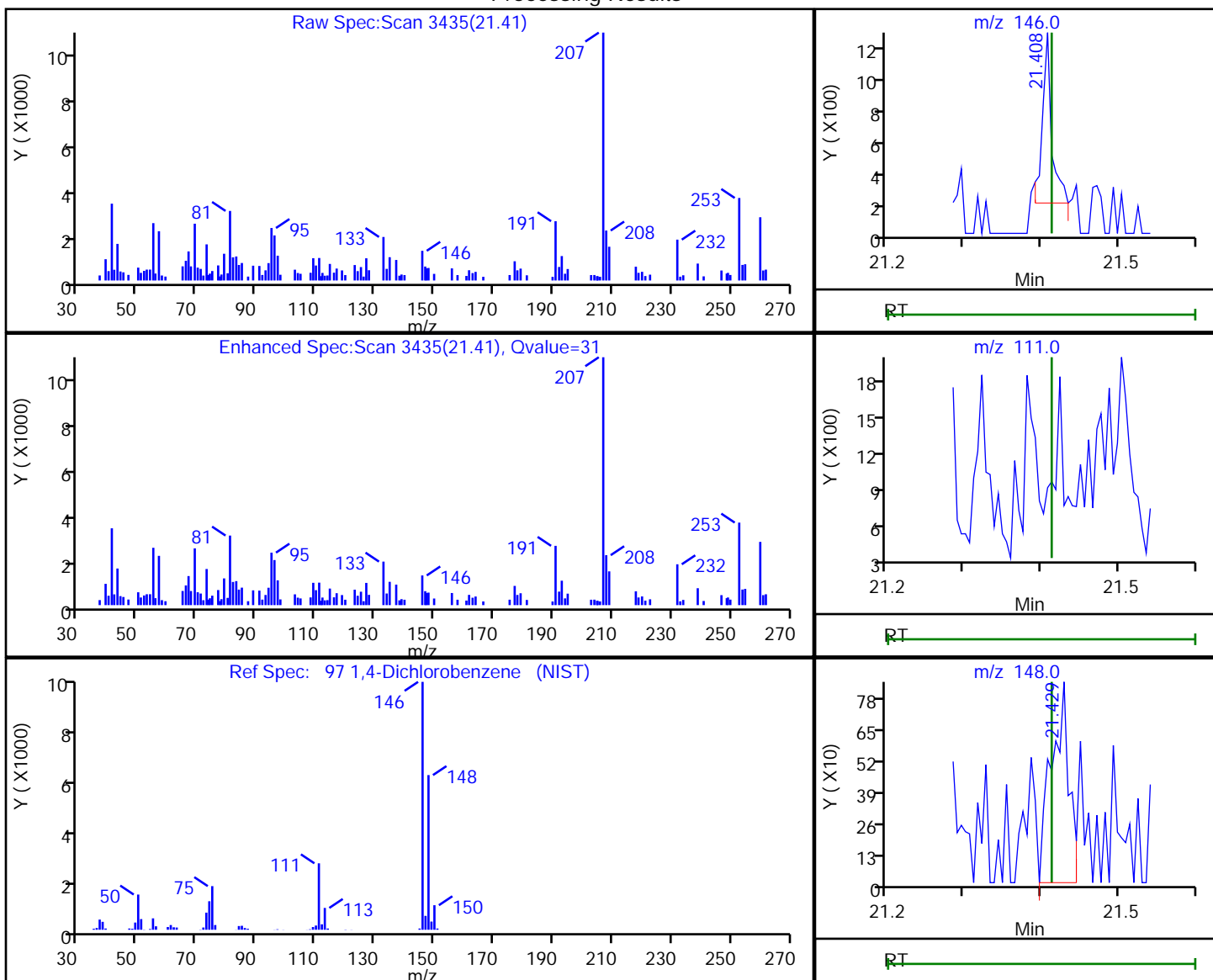
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.41 | 146.00 | 872      | 0.006111 |
| 21.43 | 148.00 | 1356     |          |
| 21.41 | 111.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:29

Audit Action: Marked Compound Undetected

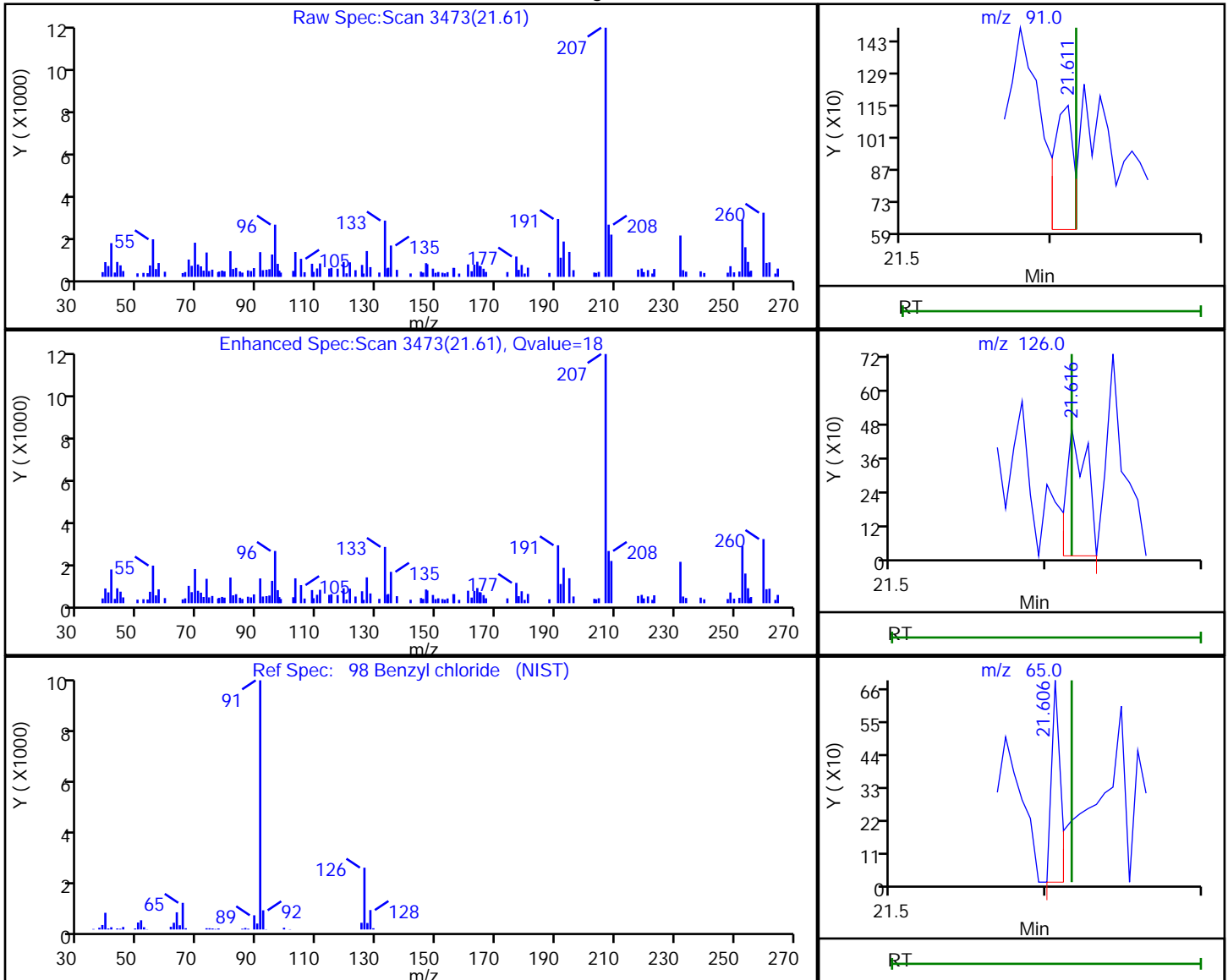
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.61 | 91.00  | 515      | 0.002924 |
| 21.62 | 126.00 | 420      |          |
| 21.61 | 65.00  | 277      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:30

Audit Action: Marked Compound Undetected

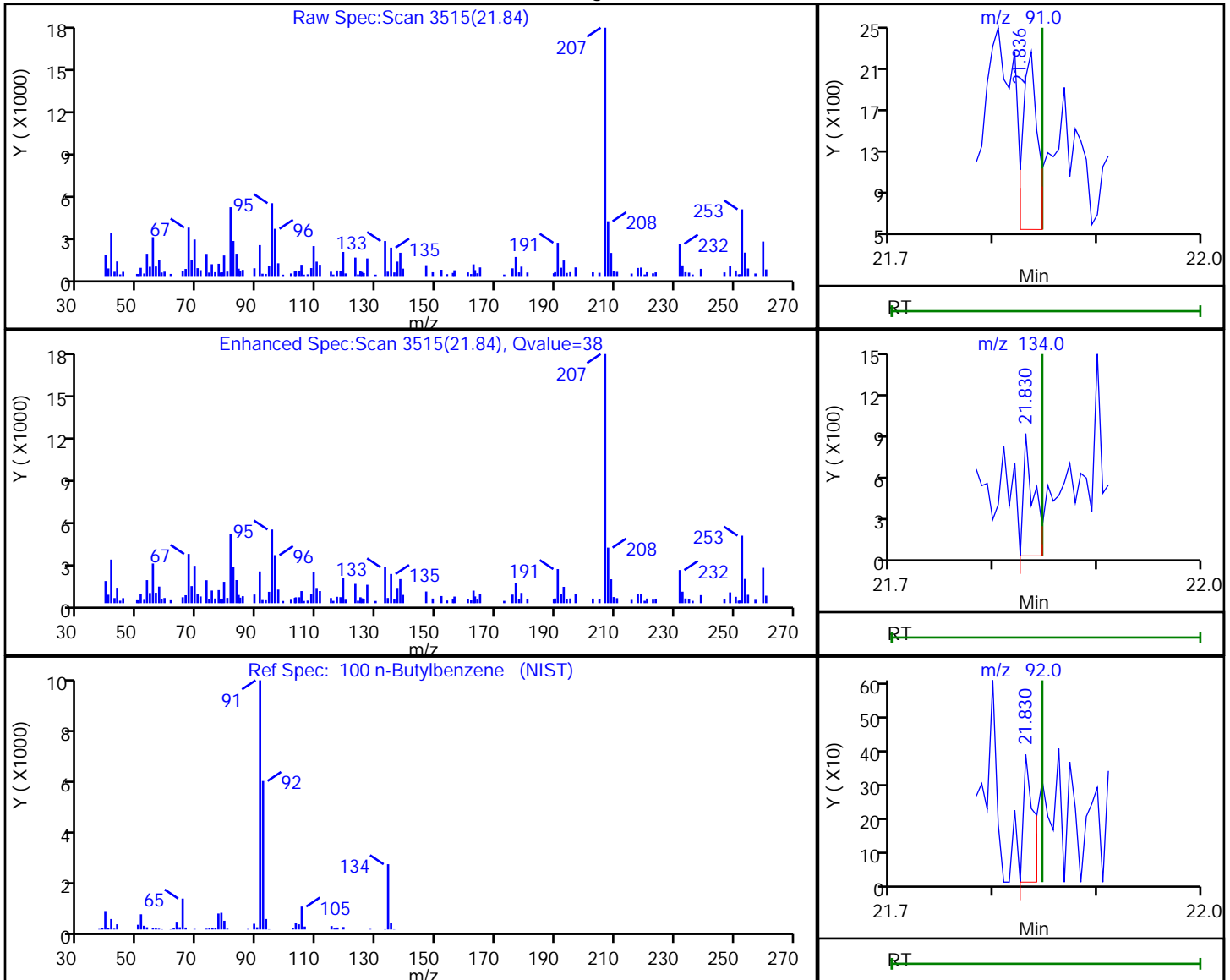
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.84 | 91.00  | 1650     | 0.008158 |
| 21.83 | 134.00 | 632      |          |
| 21.83 | 92.00  | 259      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:31

Audit Action: Marked Compound Undetected

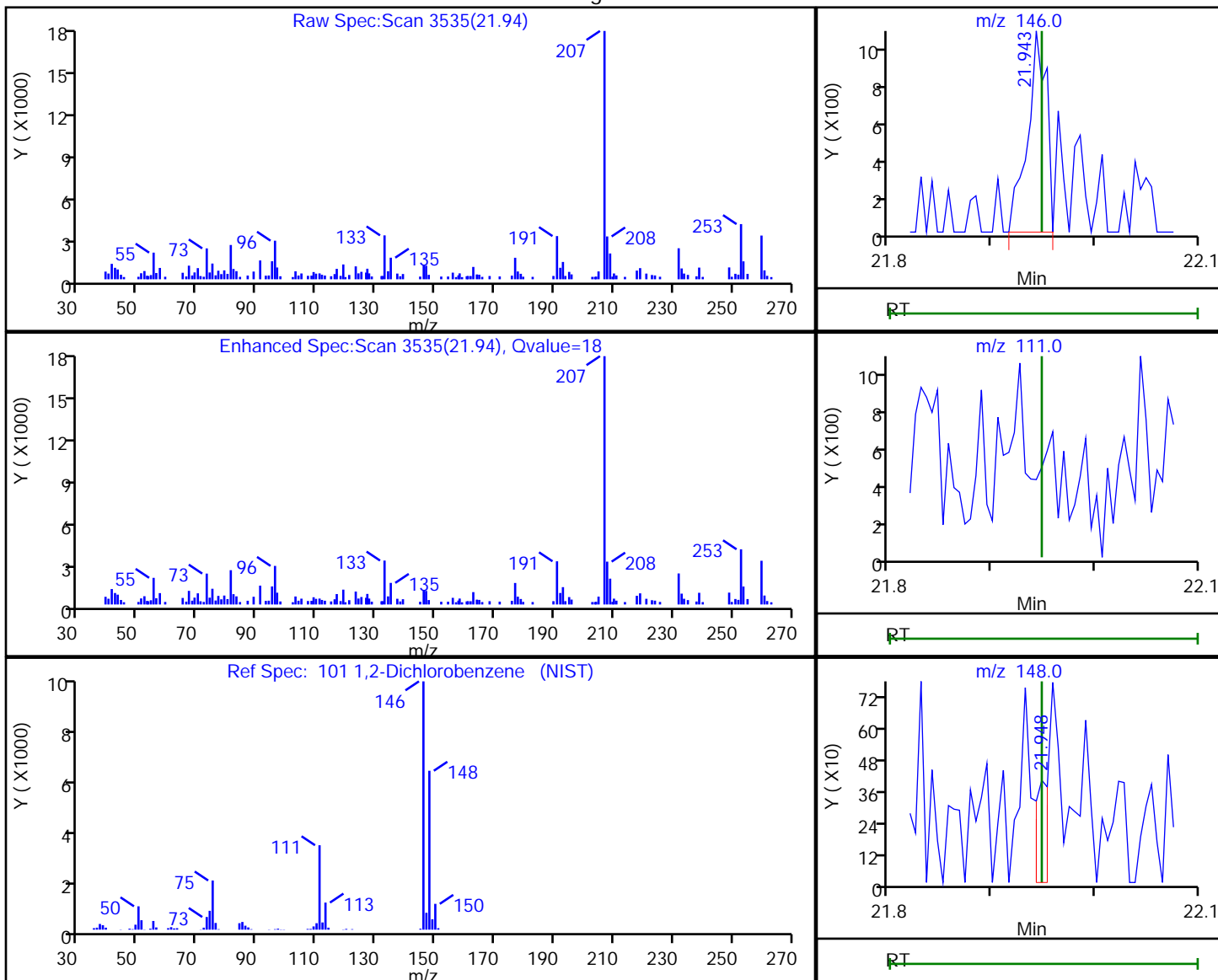
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.94 | 146.00 | 1306     | 0.009523 |
| 21.95 | 111.00 | 0        |          |
| 21.95 | 148.00 | 343      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:33

Audit Action: Marked Compound Undetected

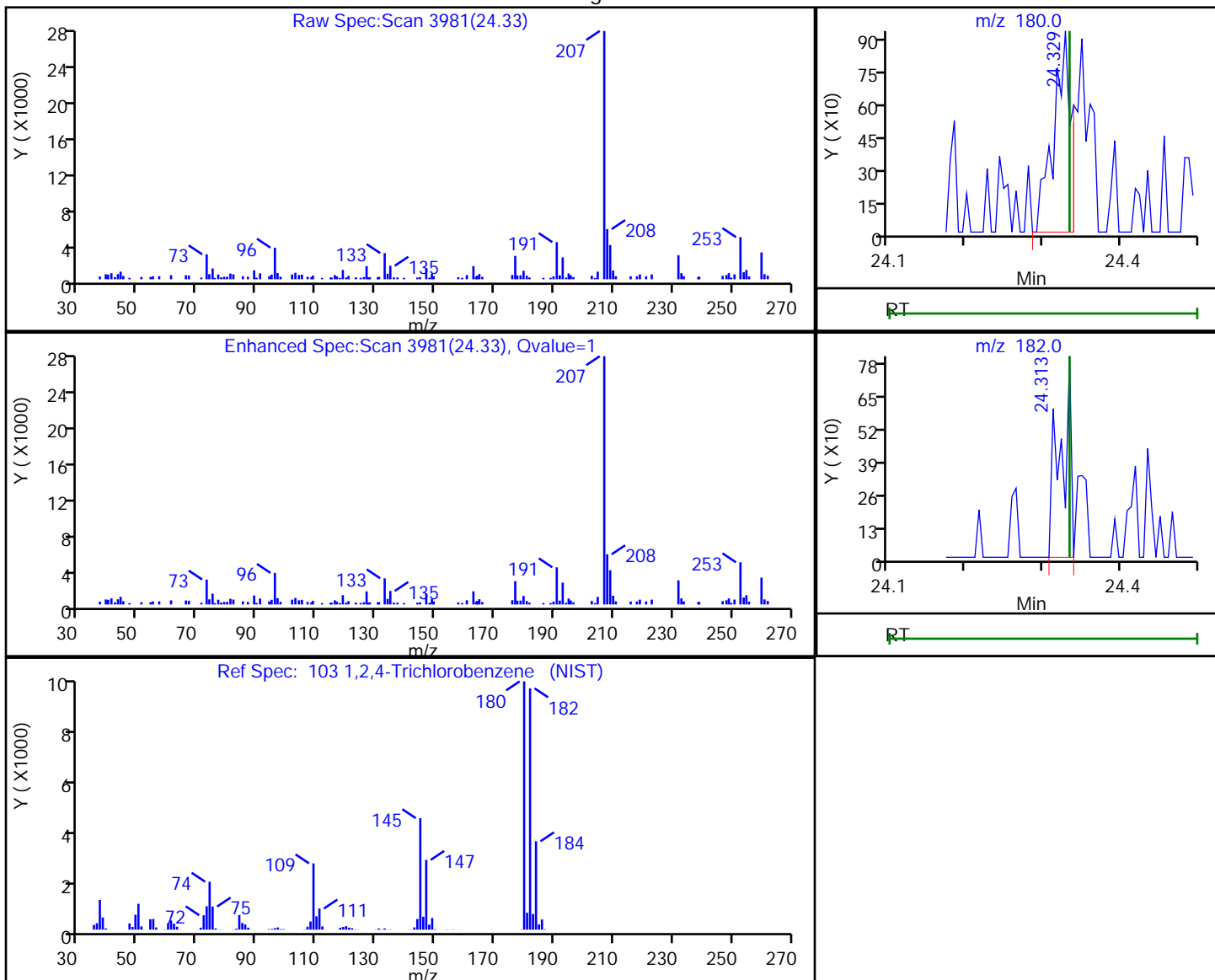
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
 Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
 Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
 Client ID: MP-5\_20181119  
 Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

103 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.33 | 180.00 | 1468     | 0.014242 |
| 24.31 | 182.00 | 768      |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

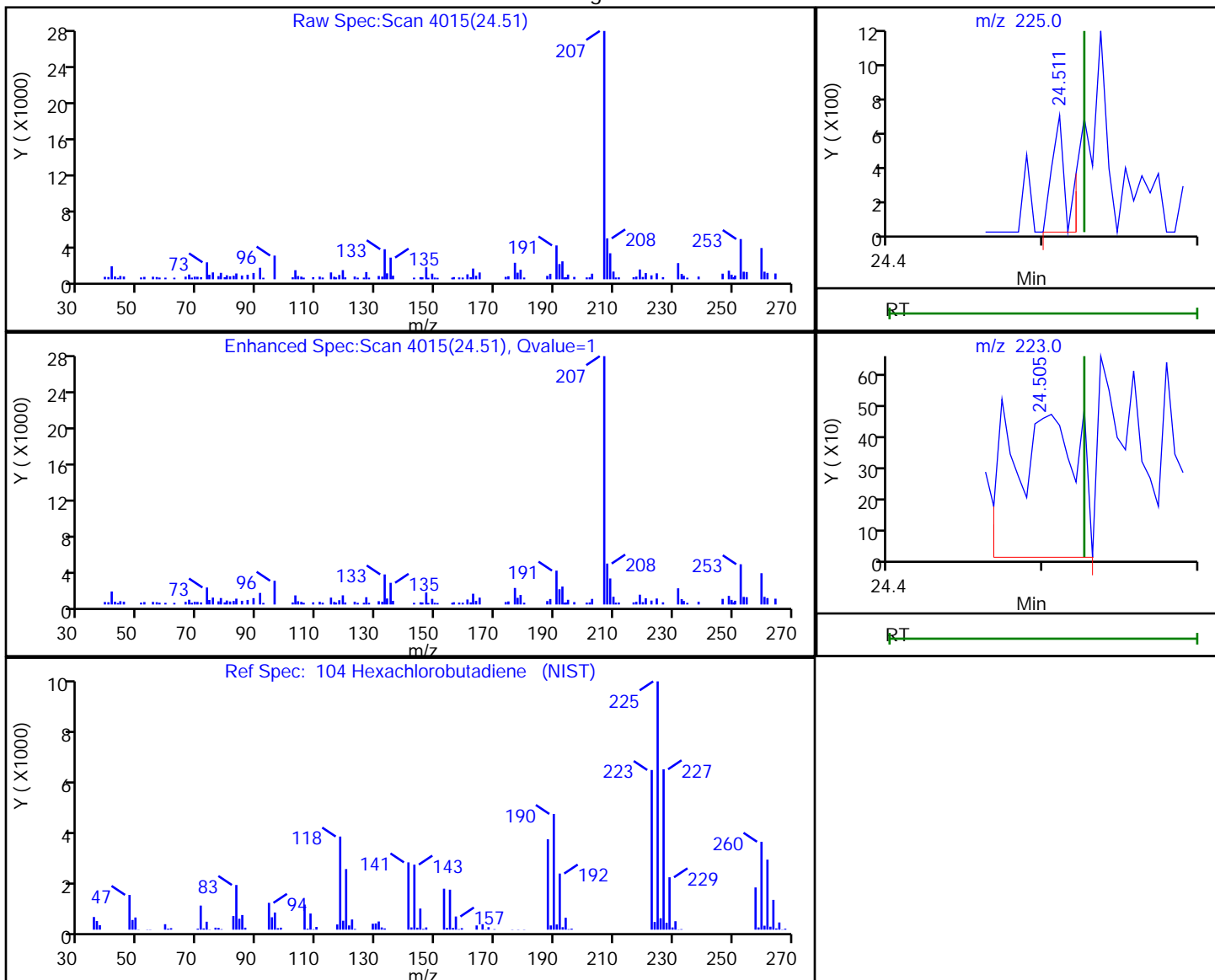


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.51 | 225.00 | 432      | 0.004213 |
| 24.51 | 223.00 | 1379     |          |

Reviewer: puangmaleek, 07-Dec-2018 17:08:36

Audit Action: Marked Compound Undetected

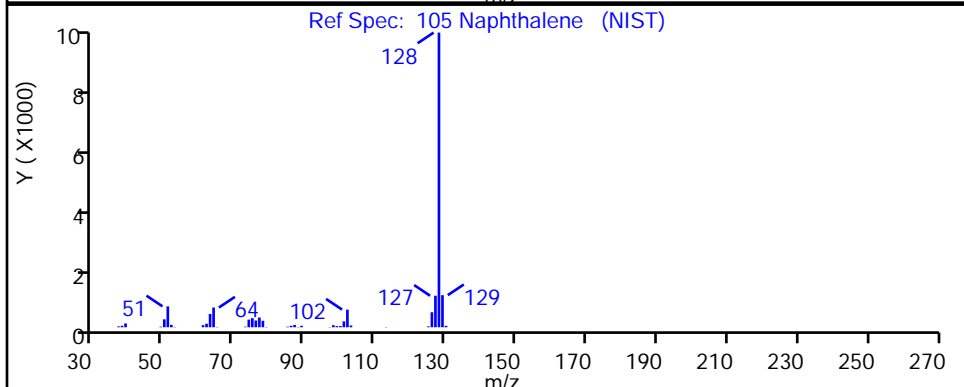
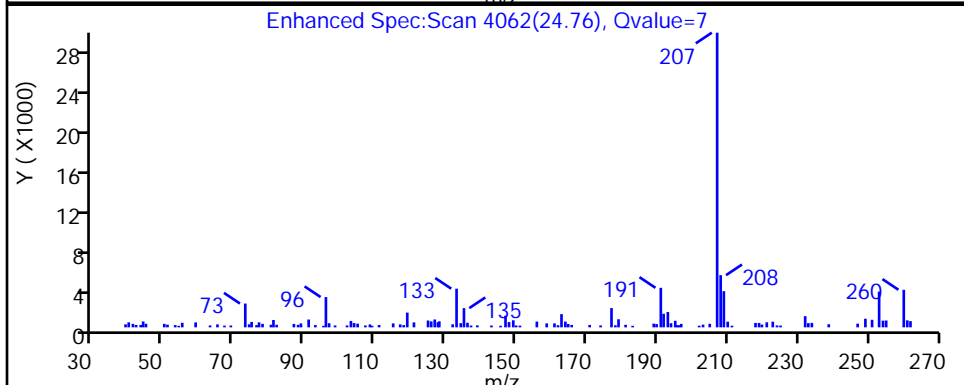
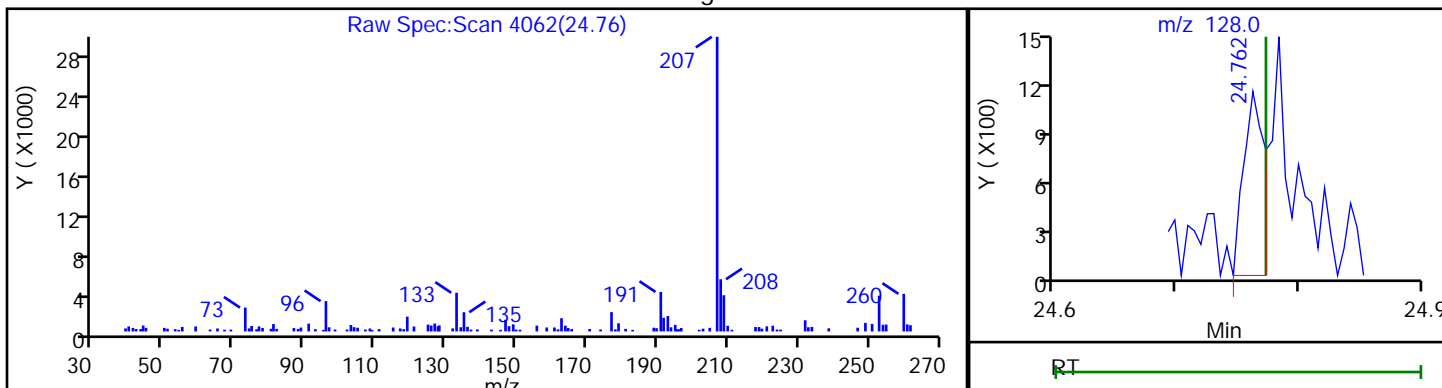
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-013.D  
Injection Date: 07-Dec-2018 00:13:30 Instrument ID: CHG.i  
Lims ID: 200-46353-A-11 Lab Sample ID: 200-46353-11  
Client ID: MP-5\_20181119  
Operator ID: ert ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.76 | 128.00 | 1324     | 0.006625 |

Reviewer: puangmaleek, 07-Dec-2018 17:08:38

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 200-137783/4   | 33516-04.D   |
| Level 2 | IC 200-137783/5   | 33516-05.D   |
| Level 3 | IC 200-137783/6   | 33516-06.D   |
| Level 4 | IC 200-137783/7   | 33516-07.D   |
| Level 5 | ICIS 200-137783/8 | 33516-08.D   |
| Level 6 | IC 200-137783/18  | 33516-18.D   |
| Level 7 | IC 200-137783/10  | 33516-10.D   |
| Level 8 | IC 200-137783/11  | 33516-11.D   |

| ANALYTE                       | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                               | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
| Propylene                     | ++++<br>0.3517   | ++++<br>0.3717   | ++++<br>0.4728   | 0.3922 | 0.4045 | Ave        |             | 0.3986 |    |   | 11.6    |      | 30.0 |          |            |   |                |
| Dichlorodifluoromethane       | ++++<br>1.9233   | ++++<br>1.9747   | 1.8840<br>2.1635 | 1.8747 | 1.9320 | Ave        |             | 1.9587 |    |   | 5.4     |      | 30.0 |          |            |   |                |
| Chlorodifluoromethane         | ++++<br>0.9156   | ++++<br>0.9291   | 0.9508<br>1.1585 | 0.9551 | 1.0145 | Ave        |             | 0.9872 |    |   | 9.2     |      | 30.0 |          |            |   |                |
| 1,2-Dichlorotetrafluoroethane | ++++<br>1.5039   | 1.4235<br>1.5589 | 1.4257<br>1.7676 | 1.4944 | 1.5592 | Ave        |             | 1.5333 |    |   | 7.6     |      | 30.0 |          |            |   |                |
| Chloromethane                 | ++++<br>0.3501   | ++++<br>0.3310   | 0.3666<br>0.4242 | 0.3767 | 0.3714 | Ave        |             | 0.3700 |    |   | 8.5     |      | 30.0 |          |            |   |                |
| n-Butane                      | ++++<br>0.5031   | ++++<br>0.5042   | 0.5472<br>0.6681 | 0.5460 | 0.5462 | Ave        |             | 0.5525 |    |   | 10.9    |      | 30.0 |          |            |   |                |
| Vinyl chloride                | 0.5422<br>0.4022 | 0.3921<br>0.3924 | 0.3730<br>0.4961 | 0.3988 | 0.4008 | Ave        |             | 0.4247 |    |   | 14.2    |      | 30.0 |          |            |   |                |
| 1,3-Butadiene                 | 0.3235<br>0.2669 | 0.2435<br>0.2698 | 0.2749<br>0.3351 | 0.2676 | 0.2796 | Ave        |             | 0.2826 |    |   | 10.9    |      | 30.0 |          |            |   |                |
| Bromomethane                  | ++++<br>0.3837   | 0.3714<br>0.3820 | 0.3827<br>0.4156 | 0.3638 | 0.3731 | Ave        |             | 0.3818 |    |   | 4.4     |      | 30.0 |          |            |   |                |
| Chloroethane                  | ++++<br>0.1605   | ++++<br>0.1557   | 0.1591<br>0.1801 | 0.1578 | 0.1626 | Ave        |             | 0.1626 |    |   | 5.5     |      | 30.0 |          |            |   |                |
| Isopentane                    | ++++<br>0.3049   | 0.3284<br>0.2916 | 0.3267<br>0.3603 | 0.3158 | 0.3231 | Ave        |             | 0.3215 |    |   | 6.7     |      | 30.0 |          |            |   |                |
| Bromoethene (Vinyl Bromide)   | ++++<br>0.4845   | 0.4081<br>0.4751 | 0.4480<br>0.4919 | 0.4680 | 0.4670 | Ave        |             | 0.4632 |    |   | 6.1     |      | 30.0 |          |            |   |                |
| Trichlorofluoromethane        | ++++<br>1.8172   | 1.6981<br>1.8231 | 1.8268<br>1.8826 | 1.8122 | 1.7913 | Ave        |             | 1.8073 |    |   | 3.1     |      | 30.0 |          |            |   |                |
| n-Pentane                     | ++++<br>0.6015   | ++++<br>0.5761   | 0.7087<br>0.7013 | 0.6714 | 0.6643 | Ave        |             | 0.6539 |    |   | 8.2     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                          | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|----------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                                  | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                                  | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| Ethanol                          | ++++<br>0.1249   | ++++<br>0.1226   | 0.1955<br>0.1402 | 0.1434 | 0.1835 | Ave        |             | 0.1517 |    |   | 20.2    |      | 30.0 |          |            |   |                |
| Ethyl ether                      | ++++<br>0.2808   | 0.2517<br>0.2753 | 0.2929<br>0.3130 | 0.3034 | 0.2921 | Ave        |             | 0.2870 |    |   | 7.0     |      | 30.0 |          |            |   |                |
| Acrolein                         | ++++<br>0.1354   | ++++<br>0.1367   | ++++<br>0.1344   | 0.1287 | 0.1289 | Ave        |             | 0.1328 |    |   | 2.8     |      | 30.0 |          |            |   |                |
| 1,1,2-Trichlorotrifluoroethane   | ++++<br>1.2102   | 1.1308<br>1.2178 | 1.0800<br>1.2357 | 1.1901 | 1.1869 | Ave        |             | 1.1788 |    |   | 4.6     |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethene               | 0.4224<br>0.4834 | 0.4705<br>0.4916 | 0.4827<br>0.5074 | 0.4850 | 0.4769 | Ave        |             | 0.4775 |    |   | 5.2     |      | 30.0 |          |            |   |                |
| Acetone                          | ++++<br>0.6971   | ++++<br>0.7053   | ++++<br>0.8909   | 0.8438 | 0.8340 | Ave        |             | 0.7942 |    |   | 11.0    |      | 30.0 |          |            |   |                |
| Carbon disulfide                 | ++++<br>1.2762   | ++++<br>1.2912   | 1.2578<br>1.4369 | 1.3235 | 1.3201 | Ave        |             | 1.3176 |    |   | 4.8     |      | 30.0 |          |            |   |                |
| Isopropyl alcohol                | ++++<br>0.6308   | ++++<br>0.6180   | ++++<br>0.7485   | 0.7389 | 0.7566 | Ave        |             | 0.6986 |    |   | 9.8     |      | 30.0 |          |            |   |                |
| 3-Chloropropene                  | ++++<br>0.4794   | 0.4984<br>0.4625 | 0.4992<br>0.5451 | 0.4049 | 0.4075 | Ave        |             | 0.4710 |    |   | 10.8    |      | 30.0 |          |            |   |                |
| Acetonitrile                     | ++++<br>0.2226   | ++++<br>0.2160   | ++++<br>0.2853   | 0.2691 | 0.2400 | Ave        |             | 0.2466 |    |   | 12.1    |      | 30.0 |          |            |   |                |
| Methylene Chloride               | ++++<br>0.4909   | ++++<br>0.4694   | 0.5926<br>0.6036 | 0.5620 | 0.5399 | Ave        |             | 0.5431 |    |   | 10.0    |      | 30.0 |          |            |   |                |
| tert-Butyl alcohol               | 0.7879<br>1.0450 | ++++<br>1.0190   | ++++<br>1.2041   | 1.1438 | 1.1337 | Ave        |             | 1.0556 |    |   | 14.0    |      | 30.0 |          |            |   |                |
| Methyl tert-butyl ether          | ++++<br>1.5654   | 1.4935<br>1.5192 | 1.5489<br>1.7286 | 1.5911 | 1.5441 | Ave        |             | 1.5701 |    |   | 4.9     |      | 30.0 |          |            |   |                |
| trans-1,2-Dichloroethene         | ++++<br>0.7124   | 0.4266<br>0.6838 | 0.7759<br>0.8410 | 0.7713 | 0.7514 | Ave        |             | 0.7089 |    |   | 18.9    |      | 30.0 |          |            |   |                |
| Acrylonitrile                    | ++++<br>0.2571   | ++++<br>0.2441   | 0.2241<br>0.3084 | 0.2811 | 0.2719 | Ave        |             | 0.2644 |    |   | 11.2    |      | 30.0 |          |            |   |                |
| n-Hexane                         | ++++<br>0.5970   | 0.5993<br>0.5588 | 0.6518<br>0.6866 | 0.6327 | 0.6158 | Ave        |             | 0.6203 |    |   | 6.7     |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethane               | 1.0163<br>0.8644 | 0.9169<br>0.8166 | 0.9120<br>0.9903 | 0.9359 | 0.8888 | Ave        |             | 0.9177 |    |   | 7.0     |      | 30.0 |          |            |   |                |
| Vinyl acetate                    | ++++<br>1.0086   | ++++<br>0.9663   | ++++<br>1.2702   | 1.1770 | 1.1318 | Ave        |             | 1.1108 |    |   | 11.2    |      | 30.0 |          |            |   |                |
| cis-1,2-Dichloroethene           | 0.4996<br>0.5528 | 0.5342<br>0.5338 | 0.5729<br>0.5653 | 0.5600 | 0.5543 | Ave        |             | 0.5466 |    |   | 4.3     |      | 30.0 |          |            |   |                |
| Methyl Ethyl Ketone (2-Butanone) | ++++<br>0.2317   | ++++<br>0.2232   | 0.1997<br>0.2476 | 0.2378 | 0.2415 | Ave        |             | 0.2302 |    |   | 7.4     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                                       | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|   | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|   | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| Ethyl acetate                                 | ++++<br>0.0434   | ++++<br>0.0444   | ++++<br>0.0453   | 0.0435 | 0.0436 | Ave        |             | 0.0440 |    |   | 1.8     |      | 30.0 |          |            |   |                |
| Tetrahydrofuran                               | ++++<br>0.0681   | ++++<br>0.0712   | ++++<br>0.0853   | 0.0880 | 0.0801 | Ave        |             | 0.0785 |    |   | 11.0    |      | 30.0 |          |            |   |                |
| Chloroform                                    | ++++<br>1.3741   | 1.3275<br>1.3530 | 0.7276<br>1.4913 | 1.4910 | 1.4283 | Ave        |             | 1.3132 |    |   | 20.3    |      | 30.0 |          |            |   |                |
| Cyclohexane                                   | ++++<br>0.1216   | 0.1263<br>0.1290 | 0.1267<br>0.1287 | 0.1299 | 0.1234 | Ave        |             | 0.1265 |    |   | 2.4     |      | 30.0 |          |            |   |                |
| 1,1,1-Trichloroethane                         | ++++<br>0.2867   | 0.2922<br>0.3166 | 0.3131<br>0.3120 | 0.3081 | 0.2975 | Ave        |             | 0.3037 |    |   | 3.8     |      | 30.0 |          |            |   |                |
| Carbon tetrachloride                          | 0.3205<br>0.3204 | 0.3126<br>0.3561 | 0.3084<br>0.3458 | 0.3333 | 0.3259 | Ave        |             | 0.3279 |    |   | 5.0     |      | 30.0 |          |            |   |                |
| Benzene                                       | ++++<br>0.2920   | 0.3360<br>0.2997 | 0.3254<br>0.3127 | 0.3268 | 0.3062 | Ave        |             | 0.3141 |    |   | 5.1     |      | 30.0 |          |            |   |                |
| 2,2,4-Trimethylpentane                        | 0.4680<br>0.4005 | 0.4282<br>0.4037 | 0.4687<br>0.4589 | 0.4756 | 0.4463 | Ave        |             | 0.4437 |    |   | 6.7     |      | 30.0 |          |            |   |                |
| 1,2-Dichloroethane                            | ++++<br>0.1845   | 0.1852<br>0.1952 | 0.2120<br>0.2231 | 0.2153 | 0.2072 | Ave        |             | 0.2032 |    |   | 7.4     |      | 30.0 |          |            |   |                |
| n-Heptane                                     | ++++<br>0.1387   | 0.1671<br>0.1389 | 0.1713<br>0.1667 | 0.1772 | 0.1659 | Ave        |             | 0.1609 |    |   | 9.7     |      | 30.0 |          |            |   |                |
| n-Butanol                                     | ++++<br>0.0561   | ++++<br>0.0468   | ++++<br>0.0648   | 0.0719 | 0.0676 | Ave        |             | 0.0614 |    |   | 16.3    |      | 30.0 |          |            |   |                |
| Trichloroethene                               | 0.1232<br>0.1769 | 0.1696<br>0.1580 | 0.1911<br>0.1840 | 0.1913 | 0.1830 | Ave        |             | 0.1721 |    |   | 13.2    |      | 30.0 |          |            |   |                |
| 1,2-Dichloropropane                           | ++++<br>0.1160   | 0.1184<br>0.0928 | 0.1329<br>0.1279 | 0.1388 | 0.1276 | Ave        |             | 0.1221 |    |   | 12.4    |      | 30.0 |          |            |   |                |
| Methyl methacrylate                           | ++++<br>0.1233   | ++++<br>0.1058   | 0.1251<br>0.1351 | 0.1378 | 0.1328 | Ave        |             | 0.1267 |    |   | 9.2     |      | 30.0 |          |            |   |                |
| 1,4-Dioxane                                   | ++++<br>0.0737   | ++++<br>0.0622   | ++++<br>0.0709   | 0.0913 | 0.0853 | Ave        |             | 0.0767 |    |   | 15.1    |      | 30.0 |          |            |   |                |
| Dibromomethane                                | ++++<br>0.1948   | 0.1837<br>0.1803 | 0.2078<br>0.1858 | 0.2076 | 0.1984 | Ave        |             | 0.1941 |    |   | 5.8     |      | 30.0 |          |            |   |                |
| Bromodichloromethane                          | ++++<br>0.3189   | 0.3101<br>0.2900 | 0.3219<br>0.3554 | 0.3534 | 0.3393 | Ave        |             | 0.3270 |    |   | 7.3     |      | 30.0 |          |            |   |                |
| cis-1,3-Dichloropropene                       | ++++<br>0.2312   | 0.2355<br>0.1925 | 0.2488<br>0.2515 | 0.2627 | 0.2470 | Ave        |             | 0.2385 |    |   | 9.5     |      | 30.0 |          |            |   |                |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | ++++<br>0.2280   | ++++<br>0.1796   | 0.2737<br>0.2788 | 0.3086 | 0.2789 | Ave        |             | 0.2579 |    |   | 18.0    |      | 30.0 |          |            |   |                |
| Toluene                                       | ++++<br>0.2695   | 0.2730<br>0.2601 | 0.2829<br>0.2895 | 0.2796 | 0.2683 | Ave        |             | 0.2747 |    |   | 3.6     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                          | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|----------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                                  | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                                  | LVL 6            | LVL 7            | LVL 8            | LVL 5  |        |            |             |        |    |   |         |      |      |          |            |   |                |
| n-Octane                         | ++++<br>0.2224   | 0.2635<br>0.1694 | 0.2948<br>0.2554 | 0.3005 | 0.2734 | Ave        |             | 0.2542 |    |   | 17.9    |      | 30.0 |          |            |   |                |
| trans-1,3-Dichloropropene        | ++++<br>0.2341   | 0.2657<br>0.2018 | 0.2474<br>0.2587 | 0.2597 | 0.2476 | Ave        |             | 0.2450 |    |   | 8.9     |      | 30.0 |          |            |   |                |
| 1,1,2-Trichloroethane            | ++++<br>0.1267   | 0.1253<br>0.1187 | 0.1401<br>0.1471 | 0.1400 | 0.1329 | Ave        |             | 0.1329 |    |   | 7.5     |      | 30.0 |          |            |   |                |
| Tetrachloroethene                | 0.3005<br>0.2805 | 0.2646<br>0.2892 | 0.2692<br>0.2779 | 0.2716 | 0.2661 | Ave        |             | 0.2774 |    |   | 4.5     |      | 30.0 |          |            |   |                |
| Methyl Butyl Ketone (2-Hexanone) | ++++<br>0.2172   | ++++<br>0.2006   | 0.2749<br>0.2655 | 0.2782 | 0.2617 | Ave        |             | 0.2497 |    |   | 13.1    |      | 30.0 |          |            |   |                |
| Dibromochloromethane             | ++++<br>0.3448   | 0.2612<br>0.3626 | 0.2474<br>0.3562 | 0.3278 | 0.3326 | Ave        |             | 0.3169 |    |   | 15.8    |      | 30.0 |          |            |   |                |
| 1,2-Dibromoethane                | ++++<br>0.2684   | 0.2370<br>0.2681 | 0.2554<br>0.2832 | 0.2735 | 0.2702 | Ave        |             | 0.2651 |    |   | 5.6     |      | 30.0 |          |            |   |                |
| Chlorobenzene                    | ++++<br>0.3829   | 0.3826<br>0.3766 | 0.3947<br>0.3769 | 0.3899 | 0.3752 | Ave        |             | 0.3827 |    |   | 1.9     |      | 30.0 |          |            |   |                |
| Ethylbenzene                     | ++++<br>0.6347   | 0.6050<br>0.6232 | 0.6653<br>0.6499 | 0.6611 | 0.6411 | Ave        |             | 0.6400 |    |   | 3.3     |      | 30.0 |          |            |   |                |
| n-Nonane                         | ++++<br>0.2328   | 0.2627<br>0.2131 | 0.2912<br>0.2538 | 0.2867 | 0.2662 | Ave        |             | 0.2581 |    |   | 10.8    |      | 30.0 |          |            |   |                |
| m,p-Xylene                       | ++++<br>0.2355   | 0.2212<br>0.2353 | 0.2492<br>0.2250 | 0.2465 | 0.2350 | Ave        |             | 0.2354 |    |   | 4.3     |      | 30.0 |          |            |   |                |
| o-Xylene                         | ++++<br>0.2293   | 0.2289<br>0.2313 | 0.2330<br>0.2260 | 0.2381 | 0.2266 | Ave        |             | 0.2305 |    |   | 1.8     |      | 30.0 |          |            |   |                |
| Styrene                          | ++++<br>0.3777   | 0.2829<br>0.3834 | 0.3161<br>0.3784 | 0.3821 | 0.3699 | Ave        |             | 0.3558 |    |   | 11.2    |      | 30.0 |          |            |   |                |
| Bromoform                        | ++++<br>0.3632   | 0.1911<br>0.3904 | 0.0979<br>0.3391 | 0.3145 | 0.3138 | Ave        |             | 0.2871 |    |   | 36.4    | *    | 30.0 |          |            |   |                |
| Cumene                           | ++++<br>0.7434   | 0.6676<br>0.7664 | 0.7346<br>0.7515 | 0.7610 | 0.7243 | Ave        |             | 0.7356 |    |   | 4.5     |      | 30.0 |          |            |   |                |
| 1,1,2,2-Tetrachloroethane        | ++++<br>0.3197   | 0.3316<br>0.3084 | 0.3693<br>0.3526 | 0.3676 | 0.3387 | Ave        |             | 0.3411 |    |   | 6.8     |      | 30.0 |          |            |   |                |
| n-Propylbenzene                  | ++++<br>0.8435   | 0.8403<br>0.8482 | 0.8871<br>0.8695 | 0.8984 | 0.8437 | Ave        |             | 0.8615 |    |   | 2.7     |      | 30.0 |          |            |   |                |
| 1,2,3-Trichloropropane           | ++++<br>0.2750   | ++++<br>0.2746   | 0.3047<br>0.3023 | 0.3194 | 0.2940 | Ave        |             | 0.2950 |    |   | 6.0     |      | 30.0 |          |            |   |                |
| 4-Ethyltoluene                   | ++++<br>0.7151   | 0.6886<br>0.7387 | 0.7504<br>0.6875 | 0.7484 | 0.7054 | Ave        |             | 0.7192 |    |   | 3.7     |      | 30.0 |          |            |   |                |
| 2-Chlorotoluene                  | ++++<br>0.5963   | 0.6129<br>0.6232 | 0.6658<br>0.6076 | 0.6551 | 0.6095 | Ave        |             | 0.6244 |    |   | 4.2     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                | RRF            |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|------------------------|----------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|                        | LVL 1          | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |                       |   |                           |
|                        | LVL 6          | LVL 7            | LVL 8            | LVL 8  |        |            |             |        |    |   |         |      |      |          |                       |   |                           |
| n-Decane               | ++++<br>0.2887 | ++++<br>0.2764   | 0.3606<br>0.3127 | 0.3688 | 0.3321 | Ave        |             | 0.3232 |    |   | 11.6    |      | 30.0 |          |                       |   |                           |
| 1,3,5-Trimethylbenzene | ++++<br>0.6537 | 0.5920<br>0.6830 | 0.6587<br>0.6636 | 0.6583 | 0.6296 | Ave        |             | 0.6484 |    |   | 4.5     |      | 30.0 |          |                       |   |                           |
| Alpha Methyl Styrene   | ++++<br>0.3217 | 0.2262<br>0.3373 | 0.2533<br>0.3140 | 0.3097 | 0.3044 | Ave        |             | 0.2952 |    |   | 13.6    |      | 30.0 |          |                       |   |                           |
| tert-Butylbenzene      | ++++<br>0.6242 | 0.5776<br>0.6618 | 0.6248<br>0.6059 | 0.6286 | 0.5957 | Ave        |             | 0.6169 |    |   | 4.4     |      | 30.0 |          |                       |   |                           |
| 1,2,4-Trimethylbenzene | ++++<br>0.6519 | 0.5979<br>0.6943 | 0.6545<br>0.6571 | 0.6622 | 0.6317 | Ave        |             | 0.6499 |    |   | 4.5     |      | 30.0 |          |                       |   |                           |
| sec-Butylbenzene       | ++++<br>0.9041 | 0.8140<br>0.9465 | 0.9269<br>0.9101 | 0.8743 | 0.8874 | Ave        |             | 0.8947 |    |   | 4.8     |      | 30.0 |          |                       |   |                           |
| 4-Isopropyltoluene     | ++++<br>0.8188 | 0.7295<br>0.8638 | 0.8170<br>0.7633 | 0.7609 | 0.7417 | Ave        |             | 0.7850 |    |   | 6.2     |      | 30.0 |          |                       |   |                           |
| 1,3-Dichlorobenzene    | ++++<br>0.4576 | 0.4188<br>0.4832 | 0.4692<br>0.4133 | 0.4274 | 0.4073 | Ave        |             | 0.4395 |    |   | 6.8     |      | 30.0 |          |                       |   |                           |
| 1,4-Dichlorobenzene    | ++++<br>0.4705 | 0.4012<br>0.5038 | 0.4798<br>0.4346 | 0.4180 | 0.4143 | Ave        |             | 0.4460 |    |   | 8.7     |      | 30.0 |          |                       |   |                           |
| Benzyl chloride        | ++++<br>0.6333 | 0.5568<br>0.6677 | 0.6403<br>0.6566 | 0.5600 | 0.5557 | Ave        |             | 0.6101 |    |   | 8.3     |      | 30.0 |          |                       |   |                           |
| n-Butylbenzene         | ++++<br>0.7228 | 0.6585<br>0.7532 | 0.7785<br>0.7297 | 0.6956 | 0.6769 | Ave        |             | 0.7164 |    |   | 5.9     |      | 30.0 |          |                       |   |                           |
| n-Undecane             | ++++<br>0.3302 | ++++<br>0.3217   | ++++<br>0.3692   | 0.3704 | 0.3472 | Ave        |             | 0.3478 |    |   | 6.4     |      | 30.0 |          |                       |   |                           |
| 1,2-Dichlorobenzene    | ++++<br>0.4481 | 0.3971<br>0.4797 | 0.4571<br>0.4150 | 0.4026 | 0.3906 | Ave        |             | 0.4272 |    |   | 8.0     |      | 30.0 |          |                       |   |                           |
| n-Dodecane             | ++++<br>0.3119 | ++++<br>0.3292   | ++++<br>0.3880   | 0.3451 | 0.3004 | Ave        |             | 0.3349 |    |   | 10.2    |      | 30.0 |          |                       |   |                           |
| 1,2,4-Trichlorobenzene | ++++<br>0.3929 | ++++<br>0.4468   | 0.4553<br>0.3751 | 0.3313 | 0.3054 | Ave        |             | 0.3845 |    |   | 15.7    |      | 30.0 |          |                       |   |                           |
| Hexachlorobutadiene    | ++++<br>0.3729 | 0.3154<br>0.4384 | 0.3870<br>0.3396 | 0.3496 | 0.3159 | Ave        |             | 0.3598 |    |   | 12.2    |      | 30.0 |          |                       |   |                           |
| Naphthalene            | ++++<br>0.7538 | ++++<br>0.8863   | 0.9425<br>0.7794 | 0.6221 | 0.5682 | Ave        |             | 0.7587 |    |   | 19.1    |      | 30.0 |          |                       |   |                           |
| 1,2,3-Trichlorobenzene | ++++<br>0.3629 | ++++<br>0.4295   | 0.4197<br>0.3497 | 0.3010 | 0.2777 | Ave        |             | 0.3568 |    |   | 17.1    |      | 30.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 200-137783/4   | 33516-04.D   |
| Level 2 | IC 200-137783/5   | 33516-05.D   |
| Level 3 | IC 200-137783/6   | 33516-06.D   |
| Level 4 | IC 200-137783/7   | 33516-07.D   |
| Level 5 | ICIS 200-137783/8 | 33516-08.D   |
| Level 6 | IC 200-137783/18  | 33516-18.D   |
| Level 7 | IC 200-137783/10  | 33516-10.D   |
| Level 8 | IC 200-137783/11  | 33516-11.D   |

| ANALYTE                       | IS REF | CURVE TYPE | RESPONSE       |                |                  |        |        | CONCENTRATION (PPB V/V) |                |                |       |       |
|-------------------------------|--------|------------|----------------|----------------|------------------|--------|--------|-------------------------|----------------|----------------|-------|-------|
|                               |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Propylene                     | BCM    | Ave        | ++++<br>135773 | ++++<br>183661 | ++++<br>338523   | 40120  | 78132  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Dichlorodifluoromethane       | BCM    | Ave        | ++++<br>742431 | ++++<br>975812 | 19180<br>1548930 | 191784 | 373195 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Chlorodifluoromethane         | BCM    | Ave        | ++++<br>353414 | ++++<br>459099 | 9680<br>829410   | 97707  | 195954 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM    | Ave        | ++++<br>580527 | 5769<br>770362 | 14514<br>1265554 | 152873 | 301184 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chloromethane                 | BCM    | Ave        | ++++<br>135157 | ++++<br>163554 | 3732<br>303685   | 38535  | 71740  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butane                      | BCM    | Ave        | ++++<br>194189 | ++++<br>249145 | 5571<br>478309   | 55852  | 105508 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Vinyl chloride                | BCM    | Ave        | 724<br>155251  | 1589<br>193907 | 3797<br>355193   | 40792  | 77427  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3-Butadiene                 | BCM    | Ave        | 432<br>103014  | 987<br>133309  | 2799<br>239908   | 27371  | 54013  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromomethane                  | BCM    | Ave        | ++++<br>148131 | 1505<br>188784 | 3896<br>297544   | 37213  | 72072  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chloroethane                  | BCM    | Ave        | ++++<br>61945  | ++++<br>76930  | 1620<br>128975   | 16140  | 31405  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Isopentane                    | BCM    | Ave        | ++++<br>117676 | 1331<br>144111 | 3326<br>257961   | 32303  | 62402  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromoethene (Vinyl Bromide)   | BCM    | Ave        | ++++<br>187028 | 1654<br>234754 | 4561<br>352157   | 47876  | 90209  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Trichlorofluoromethane        | BCM    | Ave        | ++++<br>701445 | 6882<br>900920 | 18598<br>1347843 | 185385 | 346021 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Pentane                     | BCM    | Ave        | ++++<br>232201 | ++++<br>284678 | 7215<br>502063   | 68680  | 128322 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethanol                       | BCM    | Ave        | ++++<br>96408  | ++++<br>121206 | 19923<br>251010  | 29368  | 53196  | ++++<br>30.0            | ++++<br>40.0   | 5.01<br>100.0  | 9.99  | 15.0  |



FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                          | IS REF | CURVE TYPE | RESPONSE       |                |                  |        |        | CONCENTRATION (PPB V/V) |                |                |       |       |
|----------------------------------|--------|------------|----------------|----------------|------------------|--------|--------|-------------------------|----------------|----------------|-------|-------|
|                                  |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Ethyl ether                      | BCM    | Ave        | ++++<br>108406 | 1020<br>136037 | 2982<br>224061   | 31042  | 56421  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acrolein                         | BCM    | Ave        | ++++<br>52251  | ++++<br>67540  | ++++<br>96223    | 13168  | 24894  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 1,1,2-Trichlorotrifluoroethane   | BCM    | Ave        | ++++<br>467170 | 4583<br>601805 | 10995<br>884673  | 121750 | 229274 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1-Dichloroethene               | BCM    | Ave        | 564<br>186607  | 1907<br>242947 | 4914<br>363259   | 49619  | 92119  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acetone                          | BCM    | Ave        | ++++<br>269071 | ++++<br>348523 | ++++<br>637834   | 86319  | 161089 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Carbon disulfide                 | BCM    | Ave        | ++++<br>492645 | ++++<br>638037 | 12805<br>1028723 | 135390 | 254997 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Isopropyl alcohol                | BCM    | Ave        | ++++<br>243497 | ++++<br>305384 | ++++<br>535918   | 75584  | 146155 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 3-Chloropropene                  | BCM    | Ave        | ++++<br>185045 | 2020<br>228544 | 5082<br>390281   | 41421  | 78710  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acetonitrile                     | BCM    | Ave        | ++++<br>85917  | ++++<br>106720 | ++++<br>204287   | 27525  | 46361  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Methylene Chloride               | BCM    | Ave        | ++++<br>189492 | ++++<br>231953 | 6033<br>432121   | 57491  | 104286 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| tert-Butyl alcohol               | BCM    | Ave        | 1052<br>403367 | ++++<br>503562 | ++++<br>862047   | 117012 | 218985 | 0.0351<br>15.0          | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Methyl tert-butyl ether          | BCM    | Ave        | ++++<br>604271 | 6053<br>750747 | 15769<br>1237573 | 162770 | 298270 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| trans-1,2-Dichloroethene         | BCM    | Ave        | ++++<br>275012 | 1729<br>337899 | 7899<br>602086   | 78901  | 145140 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acrylonitrile                    | BCM    | Ave        | ++++<br>99257  | ++++<br>120632 | 2281<br>220822   | 28753  | 52515  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Hexane                         | BCM    | Ave        | ++++<br>230443 | 2429<br>276144 | 6636<br>491598   | 64726  | 118957 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1-Dichloroethane               | BCM    | Ave        | 1357<br>333661 | 3716<br>403537 | 9285<br>709019   | 95739  | 171683 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Vinyl acetate                    | BCM    | Ave        | ++++<br>389315 | ++++<br>477522 | ++++<br>909438   | 120405 | 218622 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| cis-1,2-Dichloroethene           | BCM    | Ave        | 667<br>213392  | 2165<br>263775 | 5832<br>404741   | 57285  | 107073 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl Ethyl Ketone (2-Butanone) | BCM    | Ave        | ++++<br>89425  | ++++<br>110295 | 2033<br>177285   | 24326  | 46650  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethyl acetate                    | BCM    | Ave        | ++++<br>16754  | ++++<br>21953  | ++++<br>32414    | 4448   | 8414   | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Tetrahydrofuran                  | DFBZ   | Ave        | ++++<br>155299 | ++++<br>188156 | ++++<br>342749   | 51511  | 88731  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                                       | IS REF  | CURVE TYPE | RESPONSE       |                 |                  |        |        | CONCENTRATION (PPB V/V) |                |                |       |       |
|---|---------|------------|----------------|-----------------|------------------|--------|--------|-------------------------|----------------|----------------|-------|-------|
|   |         |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7  | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform                                    | BCM     | Ave        | ++++<br>530415 | 5380<br>668594  | 7407<br>1067701  | 152527 | 275892 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cyclohexane                                   | DFBZ    | Ave        | ++++<br>277247 | 2888<br>340758  | 7349<br>517454   | 76045  | 136701 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,1-Trichloroethane                         | DFBZ    | Ave        | ++++<br>653795 | 6680<br>836640  | 18158<br>1253876 | 180304 | 329581 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Carbon tetrachloride                          | DFBZ    | Ave        | 2411<br>730608 | 7146<br>940985  | 17882<br>1389719 | 195076 | 361014 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Benzene                                       | DFBZ    | Ave        | ++++<br>666007 | 7681<br>791829  | 18867<br>1257023 | 191262 | 339283 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 2,2,4-Trimethylpentane                        | DFBZ    | Ave        | 3521<br>913248 | 9788<br>1066847 | 27180<br>1844481 | 278322 | 494490 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloroethane                            | DFBZ    | Ave        | ++++<br>420858 | 4234<br>515881  | 12291<br>896698  | 126026 | 229565 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Heptane                                     | DFBZ    | Ave        | ++++<br>316237 | 3821<br>367160  | 9935<br>670147   | 103703 | 183833 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butanol                                     | DFBZ    | Ave        | ++++<br>127843 | ++++<br>123565  | ++++<br>260420   | 42071  | 74864  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Trichloroethene                               | DFBZ    | Ave        | 927<br>403455  | 3877<br>417376  | 11081<br>739449  | 111956 | 202790 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloropropane                           | DFBZ    | Ave        | ++++<br>264609 | 2707<br>245294  | 7707<br>514142   | 81207  | 141370 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl methacrylate                           | DFBZ    | Ave        | ++++<br>281284 | ++++<br>279467  | 7256<br>543057   | 80624  | 147127 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,4-Dioxane                                   | DFBZ    | Ave        | ++++<br>168068 | ++++<br>164480  | ++++<br>285135   | 53417  | 94467  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Dibromomethane                                | DFBZ    | Ave        | ++++<br>444345 | 4199<br>476369  | 12049<br>746998  | 121482 | 219780 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromodichloromethane                          | DFBZ    | Ave        | ++++<br>727333 | 7090<br>766328  | 18665<br>1428428 | 206792 | 375962 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| cis-1,3-Dichloropropene                       | DFBZ    | Ave        | ++++<br>527316 | 5384<br>508664  | 14426<br>1010979 | 153729 | 273703 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | DFBZ    | Ave        | ++++<br>519855 | ++++<br>474528  | 15874<br>1120439 | 180615 | 309044 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Toluene                                       | CBNZ d5 | Ave        | ++++<br>640559 | 6663<br>618088  | 17555<br>1115194 | 177957 | 316227 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Octane                                      | DFBZ    | Ave        | ++++<br>507202 | 6024<br>447614  | 17096<br>1026410 | 175878 | 302866 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| trans-1,3-Dichloropropene                     | DFBZ    | Ave        | ++++<br>533981 | 6075<br>533152  | 14348<br>1039824 | 151993 | 274340 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2-Trichloroethane                         | CBNZ d5 | Ave        | ++++<br>301118 | 3058<br>281962  | 8690<br>566609   | 89080  | 156612 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137783

SDG No.: 200-46353-1

Instrument ID: CHC.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/04/2018 20:51

Calibration End Date: 12/05/2018 09:17

Calibration ID: 40721

| ANALYTE                          | IS REF  | CURVE TYPE | RESPONSE        |                  |                  |        |        | CONCENTRATION (PPB V/V) |                |                |       |       |
|----------------------------------|---------|------------|-----------------|------------------|------------------|--------|--------|-------------------------|----------------|----------------|-------|-------|
|                                  |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene                | CBNZ d5 | Ave        | 2144<br>666530  | 6458<br>687003   | 16700<br>1070634 | 172870 | 313637 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave        | ++++<br>516103  | ++++<br>476488   | 17056<br>1022749 | 177058 | 308503 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Dibromochloromethane             | CBNZ d5 | Ave        | ++++<br>819337  | 6376<br>861591   | 14443<br>1372441 | 208652 | 392091 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dibromoethane                | CBNZ d5 | Ave        | ++++<br>637924  | 5784<br>637056   | 15848<br>1091151 | 174074 | 318526 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chlorobenzene                    | CBNZ d5 | Ave        | ++++<br>909948  | 9338<br>894731   | 24492<br>1452074 | 248172 | 442310 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethylbenzene                     | CBNZ d5 | Ave        | ++++<br>1508352 | 14768<br>1480573 | 41281<br>2503713 | 420763 | 755751 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Nonane                         | CBNZ d5 | Ave        | ++++<br>553372  | 6412<br>506409   | 18065<br>977867  | 182495 | 313778 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| m,p-Xylene                       | CBNZ d5 | Ave        | ++++<br>1119257 | 10797<br>1118155 | 30923<br>1733725 | 313774 | 554082 | ++++<br>30.0            | 0.401<br>40.0  | 1.00<br>80.0   | 9.99  | 20.0  |
| o-Xylene                         | CBNZ d5 | Ave        | ++++<br>545065  | 5588<br>549528   | 14456<br>870502  | 151539 | 267134 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Styrene                          | CBNZ d5 | Ave        | ++++<br>897534  | 6906<br>910973   | 19615<br>1457895 | 243198 | 436090 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromoform                        | CBNZ d5 | Ave        | ++++<br>863237  | 4664<br>927546   | 6073<br>1306364  | 200186 | 369932 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cumene                           | CBNZ d5 | Ave        | ++++<br>1766797 | 16296<br>1820859 | 45580<br>2895157 | 484356 | 853764 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2,2-Tetrachloroethane        | CBNZ d5 | Ave        | ++++<br>759807  | 8093<br>732639   | 22913<br>1358266 | 233953 | 399283 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Propylbenzene                  | CBNZ d5 | Ave        | ++++<br>2004570 | 20509<br>2015322 | 55041<br>3349697 | 571792 | 994548 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,3-Trichloropropane           | CBNZ d5 | Ave        | ++++<br>653603  | ++++<br>652377   | 18904<br>1164806 | 203261 | 346539 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Ethyltoluene                   | CBNZ d5 | Ave        | ++++<br>1699378 | 16807<br>1755164 | 46560<br>2648660 | 476320 | 831544 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 2-Chlorotoluene                  | CBNZ d5 | Ave        | ++++<br>1417247 | 14961<br>1480596 | 41307<br>2340683 | 416969 | 718532 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Decane                         | CBNZ d5 | Ave        | ++++<br>686058  | ++++<br>656647   | 22371<br>1204762 | 234755 | 391427 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3,5-Trimethylbenzene           | CBNZ d5 | Ave        | ++++<br>1553601 | 14450<br>1622679 | 40868<br>2556603 | 418991 | 742159 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Alpha Methyl Styrene             | CBNZ d5 | Ave        | ++++<br>764541  | 5520<br>801321   | 15714<br>1209673 | 197131 | 358804 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| tert-Butylbenzene                | CBNZ d5 | Ave        | ++++<br>1483372 | 14099<br>1572453 | 38763<br>2334361 | 400063 | 702209 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137783  
 SDG No.: 200-46353-1  
 Instrument ID: CHC.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 12/04/2018 20:51 Calibration End Date: 12/05/2018 09:17 Calibration ID: 40721

| ANALYTE                | IS REF  | CURVE TYPE | RESPONSE        |                  |                  |        |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|------------------------|---------|------------|-----------------|------------------|------------------|--------|---------|-------------------------|----------------|----------------|-------|-------|
|                        |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave        | ++++<br>1549236 | 14593<br>1649622 | 40608<br>2531358 | 421470 | 744612  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| sec-Butylbenzene       | CBNZ d5 | Ave        | ++++<br>2148550 | 19868<br>2248832 | 57510<br>3506044 | 556435 | 1046102 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Isopropyltoluene     | CBNZ d5 | Ave        | ++++<br>1945934 | 17806<br>2052359 | 50688<br>2940752 | 484263 | 874281  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1087563 | 10221<br>1148123 | 29110<br>1592079 | 272027 | 480093  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,4-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1118219 | 9793<br>1197052  | 29770<br>1674467 | 266050 | 488365  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Benzyl chloride        | CBNZ d5 | Ave        | ++++<br>1504984 | 13591<br>1586450 | 39729<br>2529649 | 356417 | 655100  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butylbenzene         | CBNZ d5 | Ave        | ++++<br>1717680 | 16073<br>1789576 | 48300<br>2811172 | 442693 | 797934  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Undecane             | CBNZ d5 | Ave        | ++++<br>784842  | ++++<br>764357   | ++++<br>1422378  | 235754 | 409303  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 1,2-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1064998 | 9692<br>1139661  | 28358<br>1598700 | 256240 | 460441  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Dodecane             | CBNZ d5 | Ave        | ++++<br>741258  | ++++<br>782239   | ++++<br>1494633  | 219615 | 354099  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>933858  | ++++<br>1061588  | 28251<br>1445145 | 210832 | 359994  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Hexachlorobutadiene    | CBNZ d5 | Ave        | ++++<br>886193  | 7699<br>1041566  | 24014<br>1308418 | 222512 | 372421  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Naphthalene            | CBNZ d5 | Ave        | ++++<br>1791546 | ++++<br>2105636  | 58480<br>3002555 | 395916 | 669821  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>862529  | ++++<br>1020377  | 26038<br>1347310 | 191599 | 327403  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 04-Dec-2018 20:51:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-004  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:18 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:20:40

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.962     | 2.962         | 0.000         | 89 | 1024     | 0.0351          | 0.0675            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.031     | 3.031         | 0.000         | 97 | 3170     | 0.0351          | 0.0425            |       |
| 3 Chlorodifluoromethane       | 51  | 3.079     | 3.080         | -0.001        | 97 | 1963     | 0.0351          | 0.0522            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.287     | 3.288         | -0.001        | 97 | 2260     | 0.0351          | 0.0387            |       |
| 5 Chloromethane               | 50  | 3.410     | 3.416         | -0.006        | 96 | 884      | 0.0351          | 0.0628            |       |
| 6 Butane                      | 43  | 3.624     | 3.619         | 0.005         | 29 | 917      | 0.0351          | 0.0436            |       |
| 7 Vinyl chloride              | 62  | 3.650     | 3.656         | -0.006        | 20 | 724      | 0.0351          | 0.0448            |       |
| 8 Butadiene                   | 54  | 3.736     | 3.731         | 0.005         | 20 | 432      | 0.0351          | 0.0402            |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 21 | 569      | 0.0351          | 0.0392            |       |
| 11 Chloroethane               | 64  |           | 4.627         |               |    |          | ND              | ND                |       |
| 12 2-Methylbutane             | 43  | 4.728     | 4.713         | 0.015         | 33 | 451      | 0.0351          | 0.0368            |       |
| 13 Vinyl bromide              | 106 | 5.006     | 5.022         | -0.016        | 33 | 591      | 0.0351          | 0.0335            |       |
| 14 Trichlorofluoromethane     | 101 | 5.123     | 5.134         | -0.011        | 70 | 2724     | 0.0351          | 0.0396            | M     |
| 16 Pentane                    | 43  | 5.267     | 5.284         | -0.017        | 92 | 1145     | 0.0351          | 0.0460            |       |
| 17 Ethanol                    | 45  | 5.774     | 5.716         | 0.058         | 15 | 1004     | 0.0702          | 0.1739            |       |
| 18 Ethyl ether                | 59  | 5.807     | 5.801         | 0.005         | 13 | 178      | 0.0351          | 0.0163            |       |
| 19 Acrolein                   | 56  |           | 6.159         |               |    |          | ND              | ND                |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.217     | 6.223         | -0.006        | 45 | 1575     | 0.0351          | 0.0351            |       |
| 21 1,1-Dichloroethene         | 96  | 6.249     | 6.250         | -0.001        | 35 | 564      | 0.0351          | 0.0310            |       |
| 22 Acetone                    | 43  | 6.479     | 6.468         | 0.011         | 99 | 6632     | 0.0351          | 0.2194            |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 64 | 2219     | 0.0351          | 0.0442            |       |
| 24 Isopropyl alcohol          | 45  | 6.863     | 6.794         | 0.069         | 33 | 977      | 0.0351          | 0.0367            |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 1  | 626      | 0.0351          | 0.0349            |       |
| 26 Acetonitrile               | 41  | 7.125     | 7.136         | -0.011        | 52 | 541      | 0.0351          | 0.0576            |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 95 | 1022     | 0.0351          | 0.0494            |       |
| 28 2-Methyl-2-propanol        | 59  | 7.616     | 7.573         | 0.043         | 7  | 1052     | 0.0351          | 0.0262            |       |
| 29 Methyl tert-butyl ether    | 73  | 7.760     | 7.749         | 0.011         | 84 | 2307     | 0.0351          | 0.0386            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.786     | 7.787         | -0.001        | 91 | 834      | 0.0351          | 0.0309            |       |
| 32 Acrylonitrile              | 53  | 7.909     | 7.909         | 0.000         | 11 | 196      | 0.0351          | 0.0195            |       |
| 33 Hexane                     | 57  | 8.192     | 8.192         | 0.000         | 61 | 837      | 0.0351          | 0.0354            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.646     | 8.651          | -0.005        | 1  | 1357     | 0.0351          | 0.0388            |       |
| 35 Vinyl acetate               | 43  | 8.752     | 8.737          | 0.015         | 98 | 1363     | 0.0351          | 0.0322            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.766     | 9.767          | -0.001        | 34 | 667      | 0.0351          | 0.0321            | M     |
| 38 2-Butanone (MEK)            | 72  | 9.820     | 9.804          | 0.016         | 99 | 388      | 0.0351          | 0.0443            |       |
| 39 Ethyl acetate               | 88  |           | 9.873          |               |    |          | ND              | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |          | 0.0702          | 0.0630            |       |
| * 40 Chlorobromomethane        | 128 | 10.225    | 10.226         | -0.001        | 83 | 380646   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.257    | 10.231         | 0.026         | 1  | 321      | 0.0351          | 0.0191            |       |
| 42 Chloroform                  | 83  | 10.364    | 10.370         | -0.006        | 37 | 2311     | 0.0351          | 0.0462            | M     |
| 43 Cyclohexane                 | 84  | 10.604    | 10.626         | -0.022        | 1  | 994      | 0.0351          | 0.0366            | M     |
| 44 1,1,1-Trichloroethane       | 97  | 10.626    | 10.642         | -0.016        | 2  | 2359     | 0.0351          | 0.0362            |       |
| 45 Carbon tetrachloride        | 117 | 10.903    | 10.898         | 0.005         | 71 | 2411     | 0.0351          | 0.0343            |       |
| 47 Benzene                     | 78  | 11.352    | 11.352         | 0.000         | 24 | 3232     | 0.0351          | 0.0480            | M     |
| 46 Isooctane                   | 57  | 11.346    | 11.352         | -0.006        | 66 | 3521     | 0.0351          | 0.0370            | M     |
| 48 1,2-Dichloroethane          | 62  |           | 11.528         |               |    |          | ND              | ND                |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 84 | 1275     | 0.0351          | 0.0370            |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 96 | 2144730  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  |           | 12.617         |               |    |          | ND              | ND                |       |
| 53 Trichloroethene             | 95  | 12.675    | 12.681         | -0.006        | 87 | 927      | 0.0351          | 0.0251            |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 9013180  | 0.0351          | 0                 |       |
| 54 1,2-Dichloropropane         | 63  |           | 13.220         |               |    |          | ND              | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 13.417         |               |    |          | ND              | ND                |       |
| 56 1,4-Dioxane                 | 88  | 13.476    | 13.454         | 0.022         | 1  | 359      | 0.0351          | 0.0218            |       |
| 57 Dibromomethane              | 174 | 13.492    | 13.486         | 0.006         | 55 | 860      | 0.0351          | 0.0207            |       |
| 58 Dichlorobromomethane        | 83  |           | 13.801         |               |    |          | ND              | ND                |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 9551145  | 0.0351          | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 14 | 1011     | 0.0351          | 0.0198            |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.055    | 15.029         | 0.026         | 36 | 1844     | 0.0351          | 0.0333            |       |
| 65 Toluene                     | 92  | 15.338    | 15.338         | 0.000         | 94 | 2264     | 0.0351          | 0.0405            |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 47 | 1919     | 0.0351          | 0.0352            |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.957    | 15.947         | 0.010         | 86 | 1672     | 0.0351          | 0.0318            |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 16.315         |               |    |          | ND              | ND                |       |
| 68 Tetrachloroethene           | 166 | 16.432    | 16.443         | -0.011        | 91 | 2144     | 0.0351          | 0.0380            |       |
| 69 2-Hexanone                  | 43  | 16.774    | 16.763         | 0.011         | 82 | 1623     | 0.0351          | 0.0320            |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 90 | 2065     | 0.0351          | 0.0320            |       |
| 72 Ethylene Dibromide          | 107 | 17.340    | 17.334         | 0.006         | 42 | 1176     | 0.0351          | 0.0218            |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 90 | 2033809  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.311    | 18.306         | 0.005         | 36 | 3054     | 0.0351          | 0.0392            |       |
| 76 Ethylbenzene                | 91  | 18.460    | 18.466         | -0.006        | 96 | 5173     | 0.0351          | 0.0397            |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 37 | 1895     | 0.0351          | 0.0361            |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.716    | 18.717         | -0.001        | 0  | 3598     | 0.0702          | 0.0752            |       |
| 79 o-Xylene                    | 106 | 19.560    | 19.549         | 0.011         | 93 | 918      | 0.0351          | 0.0196            |       |
| 80 Styrene                     | 104 | 19.608    | 19.603         | 0.005         | 96 | 2321     | 0.0351          | 0.0321            |       |
| 81 Bromoform                   | 173 | 20.024    | 20.035         | -0.011        | 6  | 999      | 0.0351          | 0.0171            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          | 0.1052          | 0.0947            |       |
| 82 Isopropylbenzene            | 105 | 20.270    | 20.264         | 0.006         | 96 | 3040     | 0.0351          | 0.0203            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.937    | 20.931         | 0.006         | 92 | 2408     | 0.0351          | 0.0347            |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 97 | 6080     | 0.0351          | 0.0347            |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 82 | 2401     | 0.0351          | 0.0400            |       |
| 88 4-Ethyltoluene              | 105 | 21.198    | 21.204         | -0.006        | 83 | 5268     | 0.0351          | 0.0360            |       |
| 89 2-Chlorotoluene             | 91  | 21.203    | 21.204         | -0.001        | 92 | 4829     | 0.0351          | 0.0380            |       |
| 87 n-Decane                    | 57  |           | 21.214         |               |    |          | ND              | ND                |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.316    | 21.310        | 0.006         | 91 | 4628     | 0.0351          | 0.0351            |       |
| 91 Alpha Methyl Styrene    | 118 | 21.684    | 21.689        | -0.005        | 83 | 1599     | 0.0351          | 0.0266            |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000         | 90 | 4264     | 0.0351          | 0.0340            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 95 | 4266     | 0.0351          | 0.0323            |       |
| 94 sec-Butylbenzene        | 105 | 22.137    | 22.143        | -0.006        | 95 | 5887     | 0.0351          | 0.0324            |       |
| 95 4-Isopropyltoluene      | 119 | 22.351    | 22.346        | 0.005         | 95 | 4932     | 0.0351          | 0.0309            |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 96 | 3162     | 0.0351          | 0.0354            |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.511    | 22.506        | 0.005         | 89 | 3334     | 0.0351          | 0.0368            |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 95 | 4018     | 0.0351          | 0.0324            |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 94 | 4782     | 0.0351          | 0.0328            |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 85 | 2070     | 0.0351          | 0.0293            |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.034    | 23.029        | 0.005         | 93 | 3019     | 0.0351          | 0.0348            |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 84 | 960      | 0.0351          | 0.0141            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.441    | 25.436        | 0.005         | 90 | 1928     | 0.0351          | 0.0247            |       |
| 104 Hexachlorobutadiene    | 225 | 25.633    | 25.628        | 0.005         | 92 | 2061     | 0.0351          | 0.0282            |       |
| 105 Naphthalene            | 128 | 25.879    | 25.884        | -0.005        | 13 | 1463     | 0.0351          | 0.009481          |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.332    | 26.343        | -0.011        | 91 | 1527     | 0.0351          | 0.0210            |       |

### QC Flag Legend

#### Processing Flags

ND - Not Detected or Marked ND

#### Review Flags

M - Manually Integrated

### Reagents:

ATTO15CAL1w\_00200

Amount Added: 35.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-04.D

Injection Date: 04-Dec-2018 20:51:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

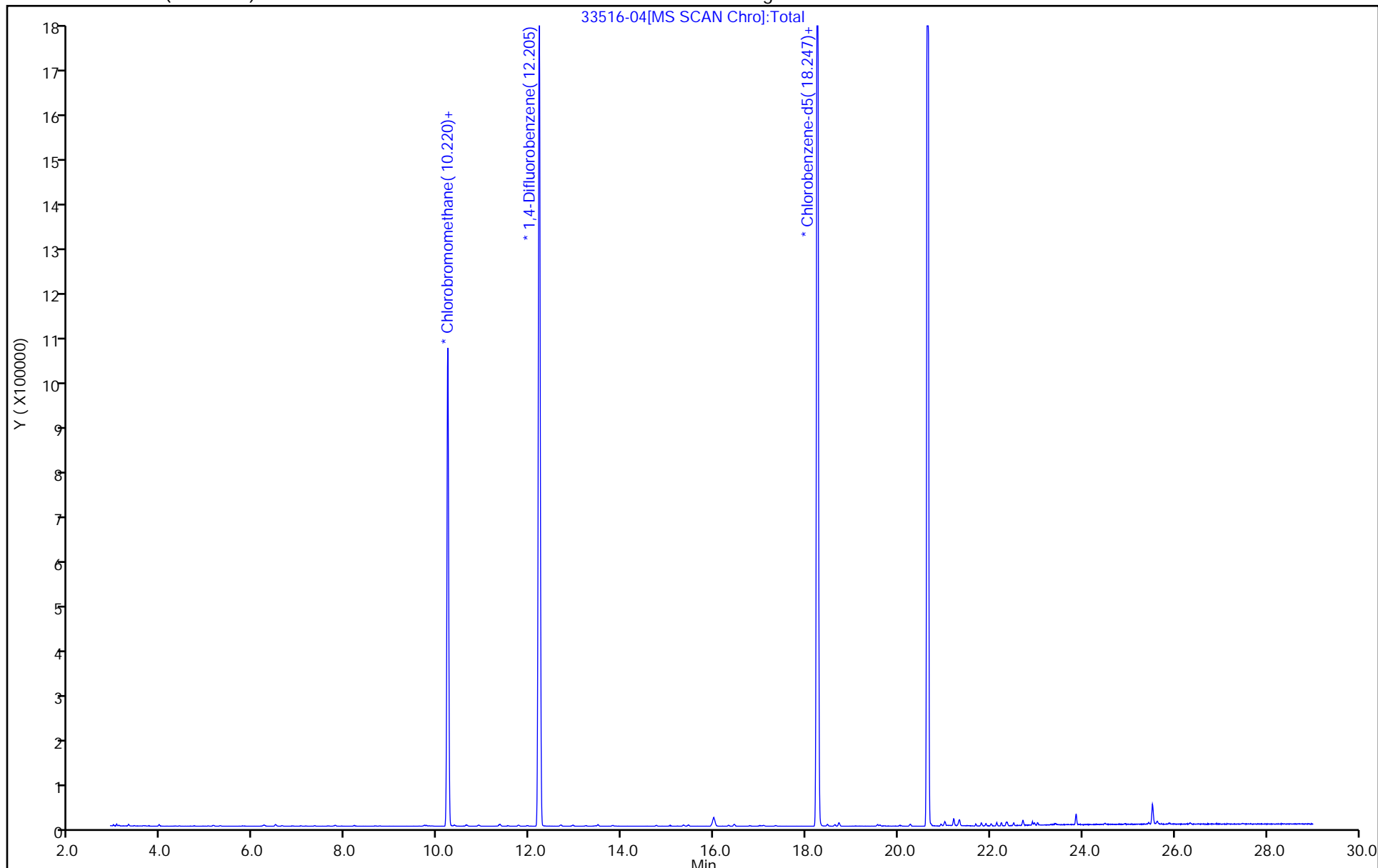
ALS Bottle#: 4

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value





TestAmerica Burlington

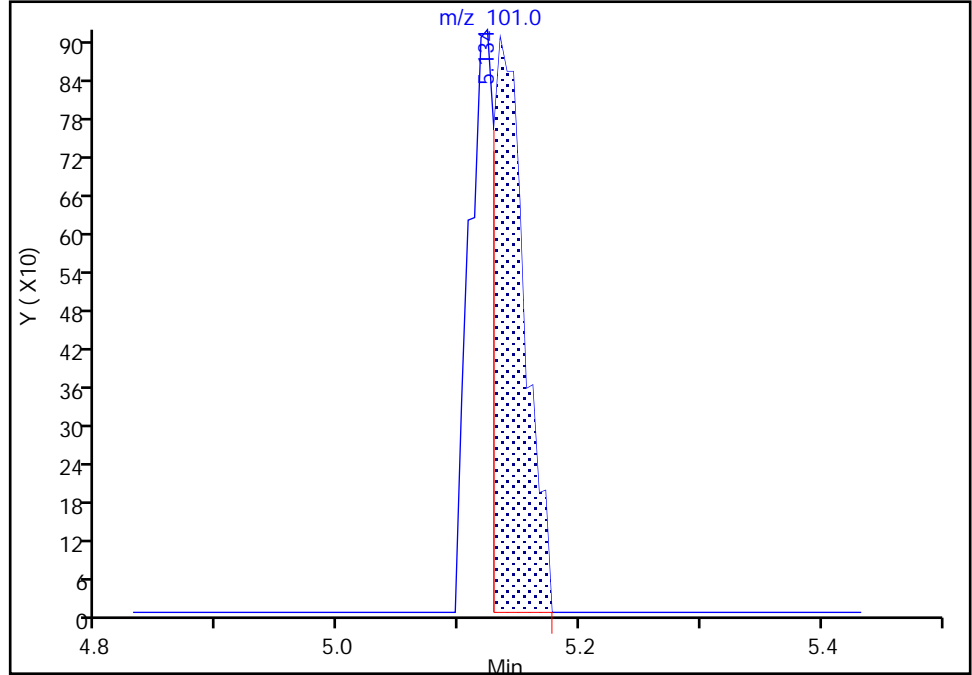
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Injection Date: 04-Dec-2018 20:51:30 Instrument ID: CHC.i  
Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

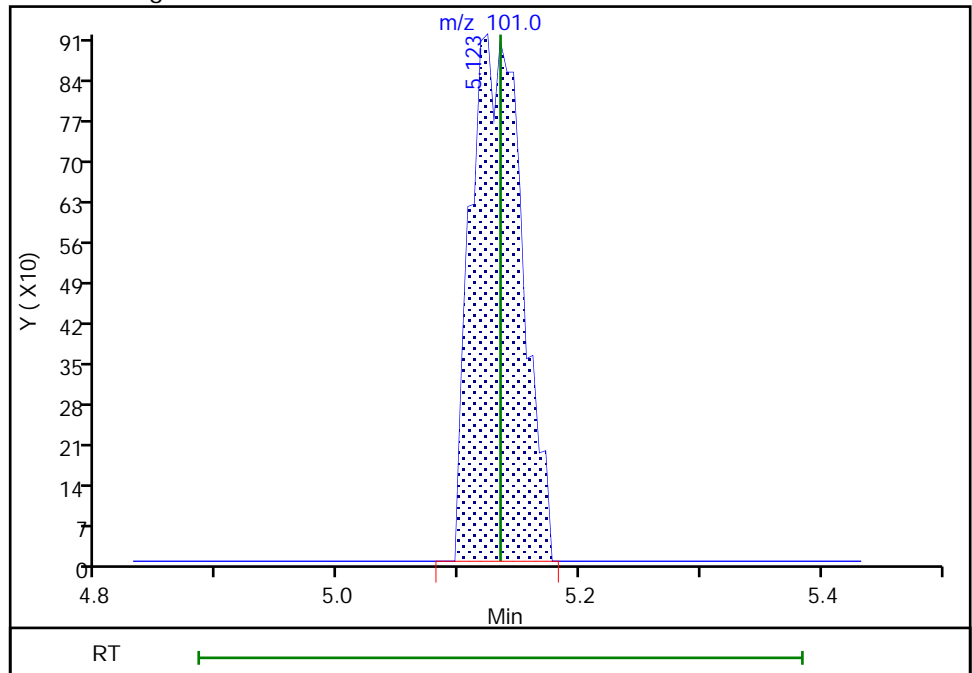
RT: 5.13  
Area: 1635  
Amount: 0.023766  
Amount Units: ppb v/v

Processing Integration Results



RT: 5.12  
Area: 2724  
Amount: 0.039596  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:19:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

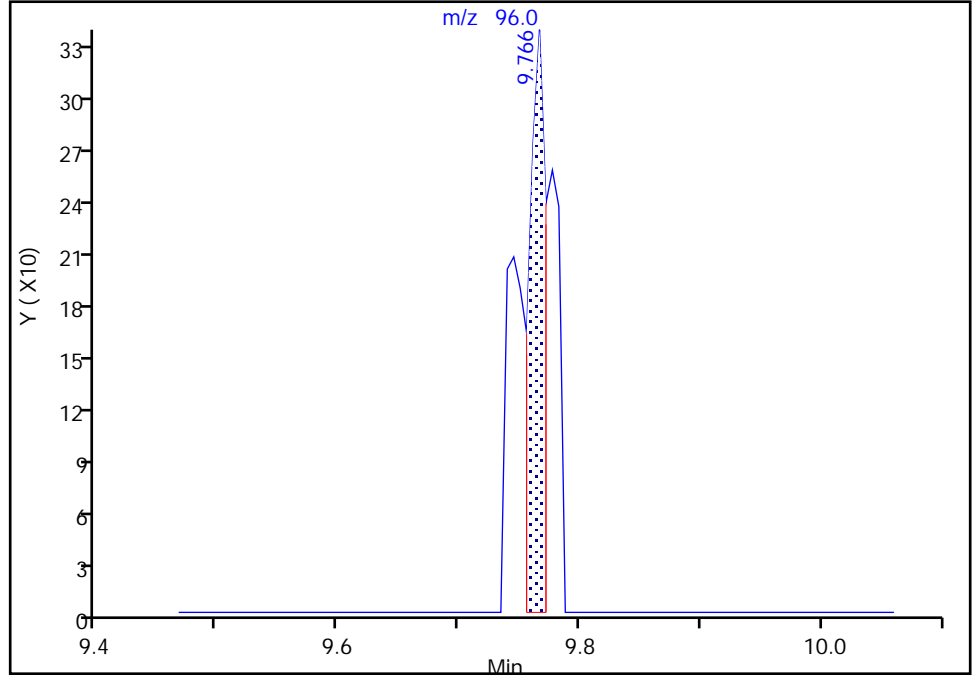
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Injection Date: 04-Dec-2018 20:51:30 Instrument ID: CHC.i  
Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

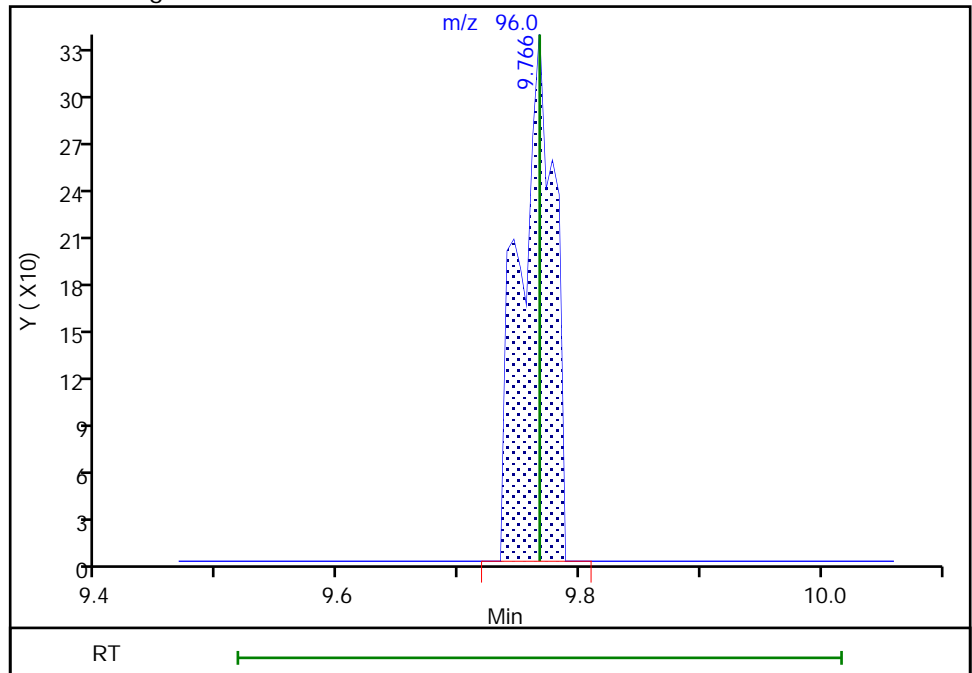
RT: 9.77  
Area: 322  
Amount: 0.016448  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.77  
Area: 667  
Amount: 0.032058  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:19:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

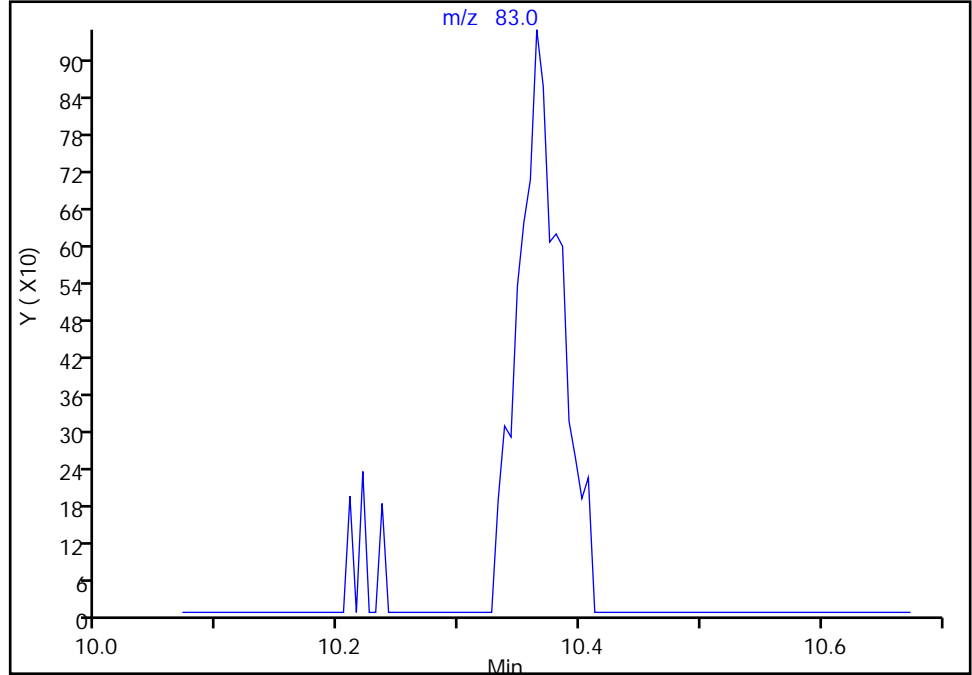
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

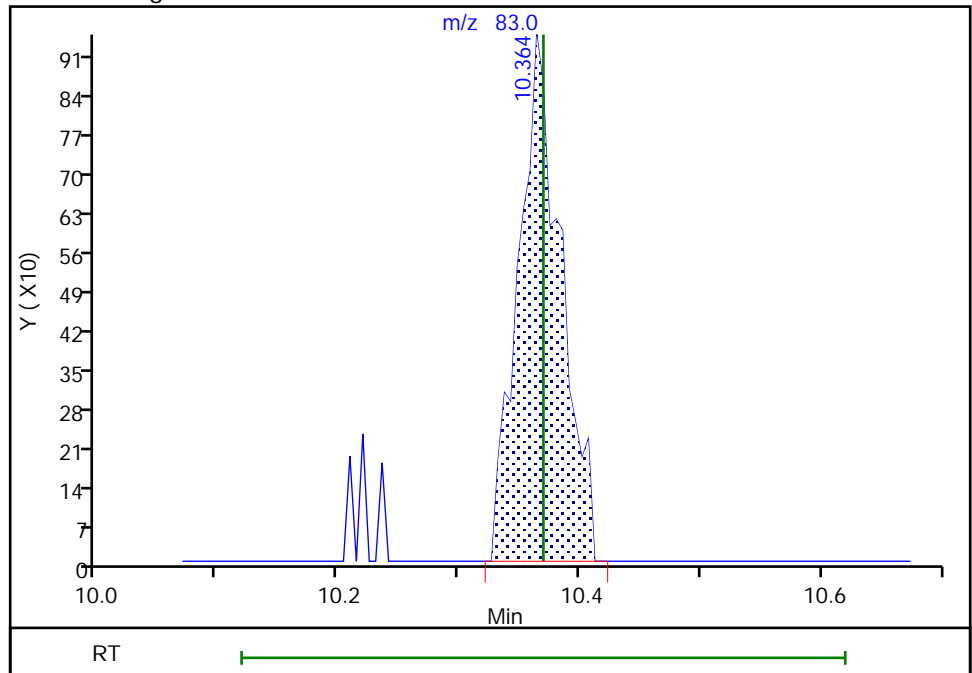
Signal: 1

Not Detected  
Expected RT: 10.37

Processing Integration Results



Manual Integration Results



RT: 10.36  
Area: 2311  
Amount: 0.046231  
Amount Units: ppb v/v

TestAmerica Burlington

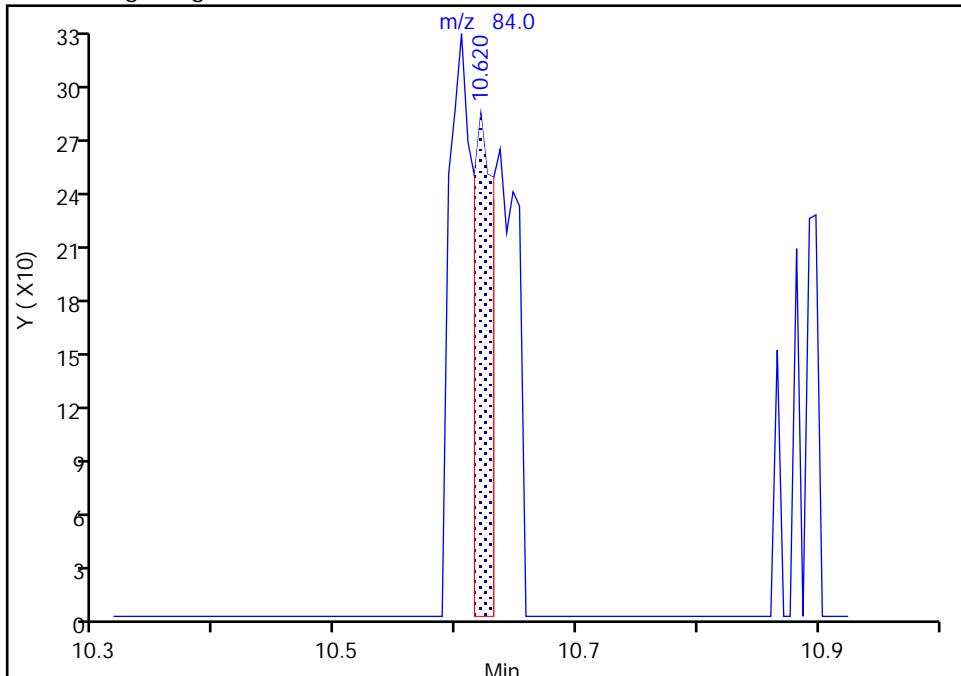
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

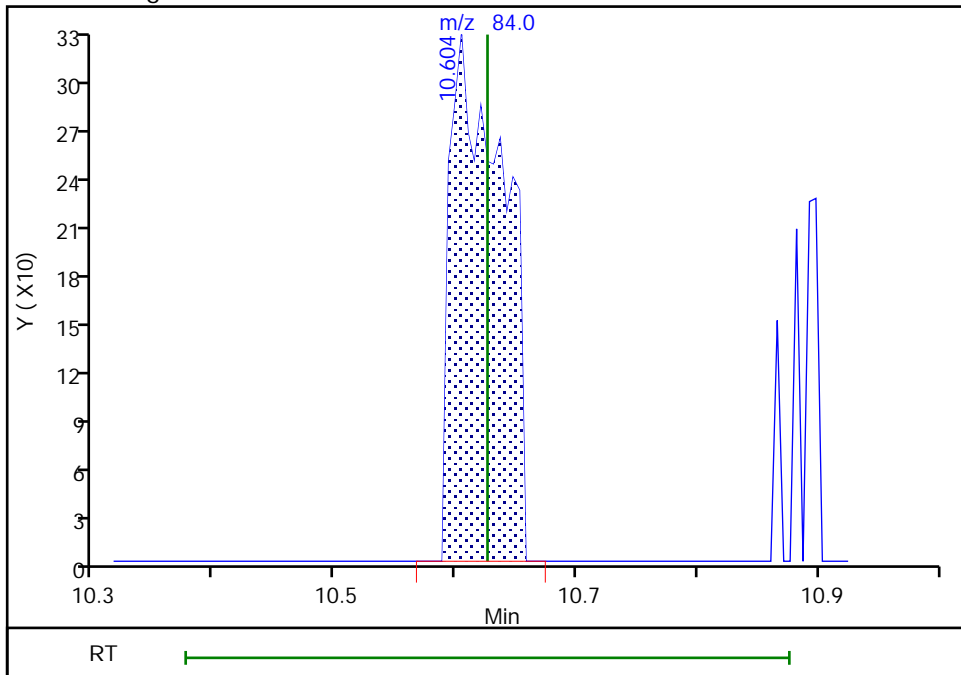
RT: 10.62  
Area: 329  
Amount: 0.013243  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.60  
Area: 994  
Amount: 0.036631  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:20:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

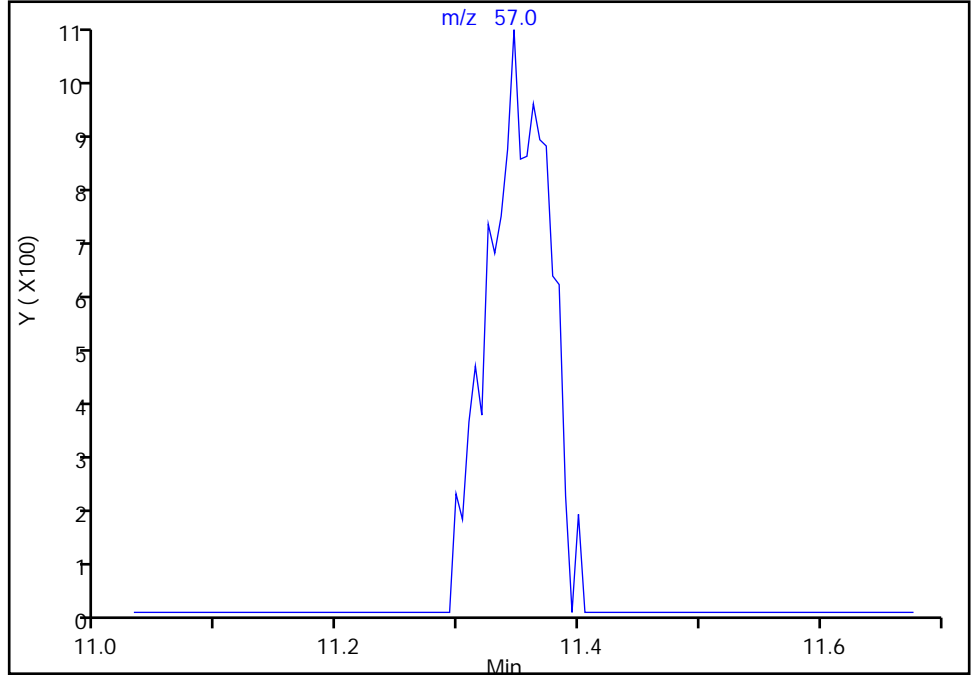
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Isooctane, CAS: 540-84-1

Signal: 1

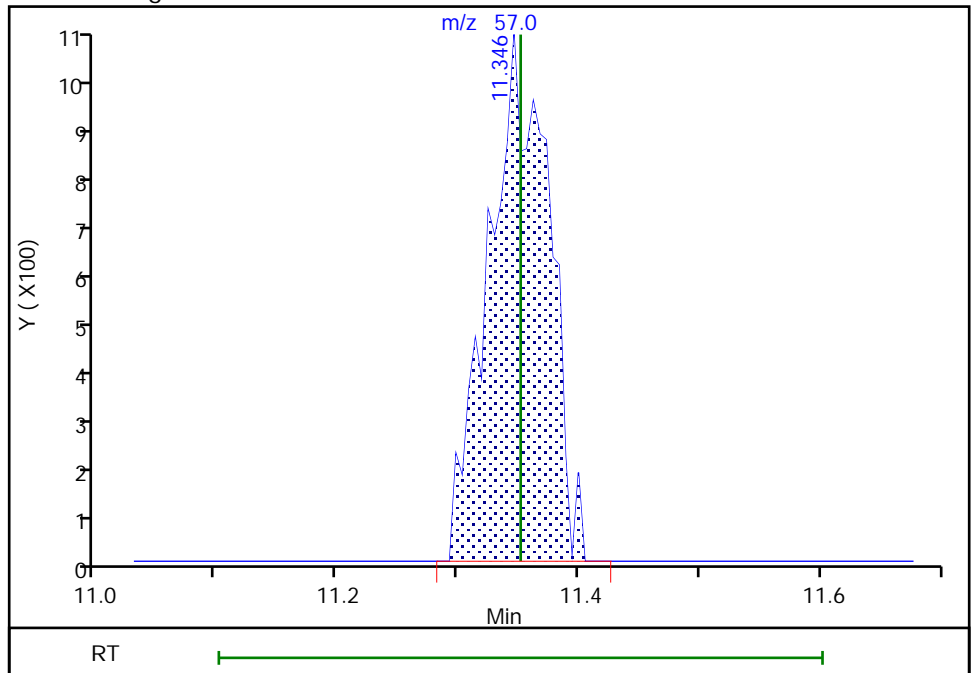
Not Detected  
Expected RT: 11.35

Processing Integration Results



Manual Integration Results

RT: 11.35  
Area: 3521  
Amount: 0.036997  
Amount Units: ppb v/v



TestAmerica Burlington

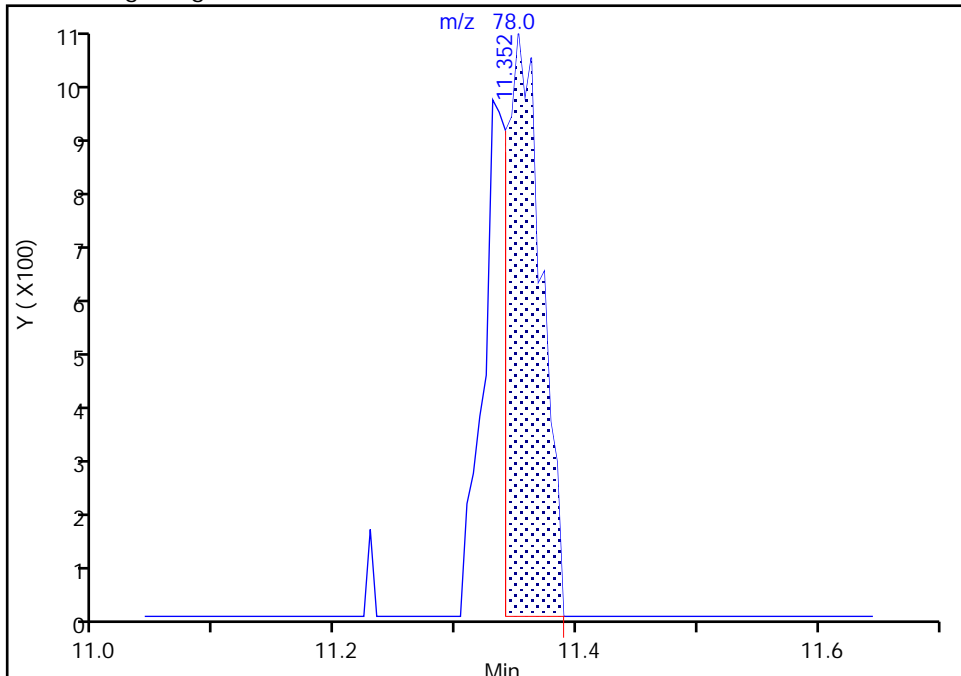
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 1

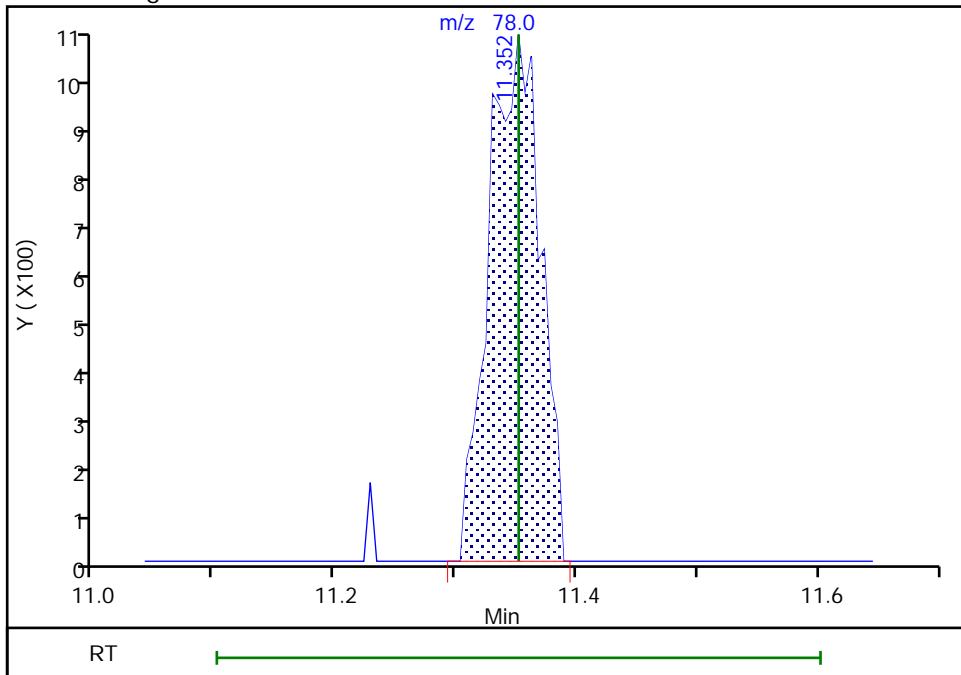
RT: 11.35  
Area: 2201  
Amount: 0.032865  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.35  
Area: 3232  
Amount: 0.047973  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:20:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 04-Dec-2018 21:44:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-005  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:20 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:34:02

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.962     | 2.962         | 0.000         | 85 | 1935     | 0.2004          | 0.2401            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.031     | 3.031         | 0.000         | 99 | 7033     | 0.2004          | 0.1776            |       |
| 3 Chlorodifluoromethane       | 51  | 3.079     | 3.080         | -0.001        | 97 | 3859     | 0.2004          | 0.1933            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.288     | 3.288         | 0.000         | 92 | 5769     | 0.2004          | 0.1861            |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 96 | 1874     | 0.2004          | 0.2505            |       |
| 6 Butane                      | 43  | 3.618     | 3.619         | -0.001        | 88 | 2332     | 0.2004          | 0.2088            |       |
| 7 Vinyl chloride              | 62  | 3.651     | 3.656         | -0.006        | 96 | 1589     | 0.2004          | 0.1850            |       |
| 8 Butadiene                   | 54  | 3.736     | 3.731         | 0.005         | 74 | 987      | 0.2004          | 0.1727            |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 53 | 1505     | 0.2004          | 0.1950            |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 1  | 368      | 0.2004          | 0.1119            |       |
| 12 2-Methylbutane             | 43  | 4.729     | 4.713         | 0.016         | 62 | 1331     | 0.2004          | 0.2047            |       |
| 13 Vinyl bromide              | 106 | 5.027     | 5.022         | 0.005         | 93 | 1654     | 0.2004          | 0.1766            |       |
| 14 Trichlorofluoromethane     | 101 | 5.140     | 5.134         | 0.006         | 97 | 6882     | 0.2004          | 0.1883            |       |
| 16 Pentane                    | 43  | 5.289     | 5.284         | 0.005         | 62 | 3016     | 0.2004          | 0.2281            |       |
| 17 Ethanol                    | 45  | 5.743     | 5.716         | 0.027         | 91 | 1555     | 0.4009          | 0.5070            |       |
| 18 Ethyl ether                | 59  | 5.807     | 5.801         | 0.006         | 95 | 1020     | 0.2004          | 0.1758            |       |
| 19 Acrolein                   | 56  | 6.159     | 6.159         | 0.000         | 20 | 663      | 0.2004          | 0.2469            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.212     | 6.223         | -0.011        | 82 | 4583     | 0.2004          | 0.1923            |       |
| 21 1,1-Dichloroethene         | 96  | 6.260     | 6.250         | 0.010         | 93 | 1907     | 0.2004          | 0.1975            |       |
| 22 Acetone                    | 43  | 6.484     | 6.468         | 0.016         | 99 | 9247     | 0.2004          | 0.5758            |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 80 | 4687     | 0.2004          | 0.1759            |       |
| 24 Isopropyl alcohol          | 45  | 6.831     | 6.794         | 0.037         | 39 | 2638     | 0.2004          | 0.1868            |       |
| 25 3-Chloro-1-propene         | 41  | 7.039     | 7.039         | 0.000         | 88 | 2020     | 0.2004          | 0.2121            |       |
| 26 Acetonitrile               | 41  | 7.146     | 7.136         | 0.010         | 78 | 1119     | 0.2004          | 0.2244            |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 94 | 2207     | 0.2004          | 0.2010            |       |
| 28 2-Methyl-2-propanol        | 59  | 7.610     | 7.573         | 0.037         | 88 | 3574     | 0.2004          | 0.1675            |       |
| 29 Methyl tert-butyl ether    | 73  | 7.765     | 7.749         | 0.016         | 94 | 6053     | 0.2004          | 0.1907            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.787     | 7.787         | 0.000         | 71 | 1729     | 0.2004          | 0.1206            |       |
| 32 Acrylonitrile              | 53  | 7.909     | 7.909         | 0.000         | 64 | 943      | 0.2004          | 0.1764            | M     |
| 33 Hexane                     | 57  | 8.187     | 8.192         | -0.005        | 82 | 2429     | 0.2004          | 0.1937            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.646     | 8.651          | -0.005        | 13 | 3716     | 0.2004          | 0.2003            |       |
| 35 Vinyl acetate               | 43  | 8.742     | 8.737          | 0.005         | 98 | 4022     | 0.2004          | 0.1791            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.767     | 9.767          | 0.000         | 88 | 2165     | 0.2004          | 0.1959            |       |
| 38 2-Butanone (MEK)            | 72  | 9.815     | 9.804          | 0.011         | 66 | 1140     | 0.2004          | 0.2449            |       |
| 39 Ethyl acetate               | 88  |           | 9.873          |               |    |          | ND              | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |          | 0.4009          | 0.3165            |       |
| * 40 Chlorobromomethane        | 128 | 10.220    | 10.226         | -0.006        | 82 | 202194   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.258    | 10.231         | 0.027         | 27 | 1696     | 0.2004          | 0.1893            |       |
| 42 Chloroform                  | 83  | 10.370    | 10.370         | 0.000         | 96 | 5380     | 0.2004          | 0.2026            |       |
| 43 Cyclohexane                 | 84  | 10.631    | 10.626         | 0.005         | 92 | 2888     | 0.2004          | 0.2001            | M     |
| 44 1,1,1-Trichloroethane       | 97  | 10.637    | 10.642         | -0.005        | 93 | 6680     | 0.2004          | 0.1928            |       |
| 45 Carbon tetrachloride        | 117 | 10.893    | 10.898         | -0.005        | 91 | 7146     | 0.2004          | 0.1911            |       |
| 47 Benzene                     | 78  | 11.341    | 11.352         | -0.011        | 95 | 7681     | 0.2004          | 0.2144            | M     |
| 46 Isooctane                   | 57  | 11.352    | 11.352         | 0.000         | 93 | 9788     | 0.2004          | 0.1934            |       |
| 48 1,2-Dichloroethane          | 62  | 11.533    | 11.528         | 0.005         | 97 | 4234     | 0.2004          | 0.1827            |       |
| 49 n-Heptane                   | 43  | 11.752    | 11.757         | -0.005        | 81 | 3821     | 0.2004          | 0.2083            |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.206    | 12.211         | -0.005        | 96 | 1140516  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.659    | 12.617         | 0.042         | 52 | 1852     | 0.2004          | 0.2644            |       |
| 53 Trichloroethene             | 95  | 12.681    | 12.681         | 0.000         | 95 | 3877     | 0.2004          | 0.1975            |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 6380931  | 0.2004          | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.220    | 13.220         | 0.000         | 79 | 2707     | 0.2004          | 0.1944            |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 88 | 2775     | 0.2004          | 0.1921            |       |
| 56 1,4-Dioxane                 | 88  | 13.465    | 13.454         | 0.011         | 46 | 1750     | 0.2004          | 0.2001            | M     |
| 57 Dibromomethane              | 174 | 13.481    | 13.486         | -0.005        | 90 | 4199     | 0.2004          | 0.1897            |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.801         | -0.005        | 96 | 7090     | 0.2004          | 0.1901            |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 7432725  | 0.2004          | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 70 | 5384     | 0.2004          | 0.1980            |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.050    | 15.029         | 0.021         | 90 | 5598     | 0.2004          | 0.1903            |       |
| 65 Toluene                     | 92  | 15.344    | 15.338         | 0.006         | 94 | 6663     | 0.2004          | 0.1992            |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 76 | 6024     | 0.2004          | 0.2078            |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.952    | 15.947         | 0.005         | 96 | 6075     | 0.2004          | 0.2174            | M     |
| 67 1,1,2-Trichloroethane       | 83  | 16.320    | 16.315         | 0.005         | 93 | 3058     | 0.2004          | 0.1889            |       |
| 68 Tetrachloroethene           | 166 | 16.438    | 16.443         | -0.005        | 78 | 6458     | 0.2004          | 0.1912            |       |
| 69 2-Hexanone                  | 43  | 16.769    | 16.763         | 0.006         | 90 | 5492     | 0.2004          | 0.1806            |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 97 | 6376     | 0.2004          | 0.1652            |       |
| 72 Ethylene Dibromide          | 107 | 17.340    | 17.334         | 0.006         | 95 | 5784     | 0.2004          | 0.1792            |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 90 | 1217733  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 95 | 9338     | 0.2004          | 0.2004            |       |
| 76 Ethylbenzene                | 91  | 18.471    | 18.466         | 0.005         | 99 | 14768    | 0.2004          | 0.1895            |       |
| 77 n-Nonane                    | 57  | 18.631    | 18.626         | 0.005         | 79 | 6412     | 0.2004          | 0.2040            |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.717         | -0.006        | 0  | 10797    | 0.4009          | 0.3767            |       |
| 79 o-Xylene                    | 106 | 19.554    | 19.549         | 0.005         | 97 | 5588     | 0.2004          | 0.1991            |       |
| 80 Styrene                     | 104 | 19.608    | 19.603         | 0.005         | 95 | 6906     | 0.2004          | 0.1594            |       |
| 81 Bromoform                   | 173 | 20.040    | 20.035         | 0.005         | 85 | 4664     | 0.2004          | 0.1334            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          | 0.6013          | 0.5758            |       |
| 82 Isopropylbenzene            | 105 | 20.259    | 20.264         | -0.005        | 98 | 16296    | 0.2004          | 0.1819            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.937    | 20.931         | 0.006         | 98 | 8093     | 0.2004          | 0.1948            |       |
| 85 N-Propylbenzene             | 91  | 21.011    | 21.006         | 0.005         | 97 | 20509    | 0.2004          | 0.1955            |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 91 | 8452     | 0.2004          | 0.2353            |       |
| 88 4-Ethyltoluene              | 105 | 21.204    | 21.204         | 0.000         | 91 | 16807    | 0.2004          | 0.1919            |       |
| 89 2-Chlorotoluene             | 91  | 21.204    | 21.204         | 0.000         | 93 | 14961    | 0.2004          | 0.1968            |       |
| 87 n-Decane                    | 57  | 21.220    | 21.214         | 0.006         | 95 | 8525     | 0.2004          | 0.2166            |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 91 | 14450    | 0.2004          | 0.1830            |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 89 | 5520     | 0.2004          | 0.1536            |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000         | 90 | 14099    | 0.2004          | 0.1877            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 14593    | 0.2004          | 0.1844            |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 96 | 19868    | 0.2004          | 0.1823            |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 17806    | 0.2004          | 0.1863            |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 97 | 10221    | 0.2004          | 0.1910            |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000         | 93 | 9793     | 0.2004          | 0.1803            |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 13591    | 0.2004          | 0.1829            |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 96 | 16073    | 0.2004          | 0.1842            |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 93 | 7999     | 0.2004          | 0.1889            |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.034    | 23.029        | 0.005         | 93 | 9692     | 0.2004          | 0.1863            |       |
| 102 Dodecane               | 57  | 24.491    | 24.486        | 0.005         | 90 | 6531     | 0.2004          | 0.1601            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 93 | 7583     | 0.2004          | 0.1620            |       |
| 104 Hexachlorobutadiene    | 225 | 25.623    | 25.628        | -0.005        | 96 | 7699     | 0.2004          | 0.1757            |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 12914    | 0.2004          | 0.1398            |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338    | 26.343        | -0.005        | 94 | 7227     | 0.2004          | 0.1664            |       |

### QC Flag Legend

#### Processing Flags

ND - Not Detected or Marked ND

#### Review Flags

M - Manually Integrated

### Reagents:

ATTO15CAL1w\_00200

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-05.D

Injection Date: 04-Dec-2018 21:44:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

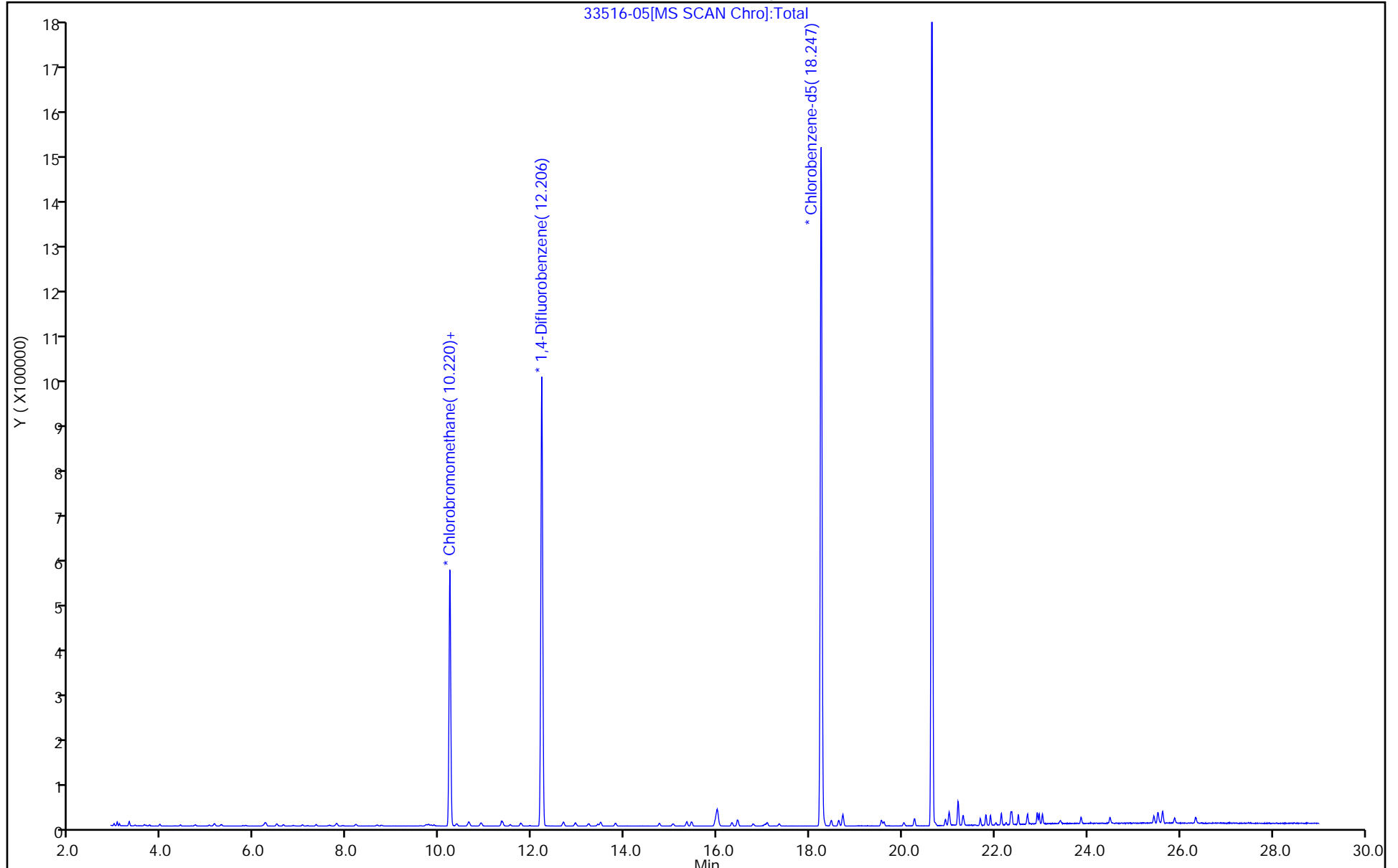
ALS Bottle#: 5

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington

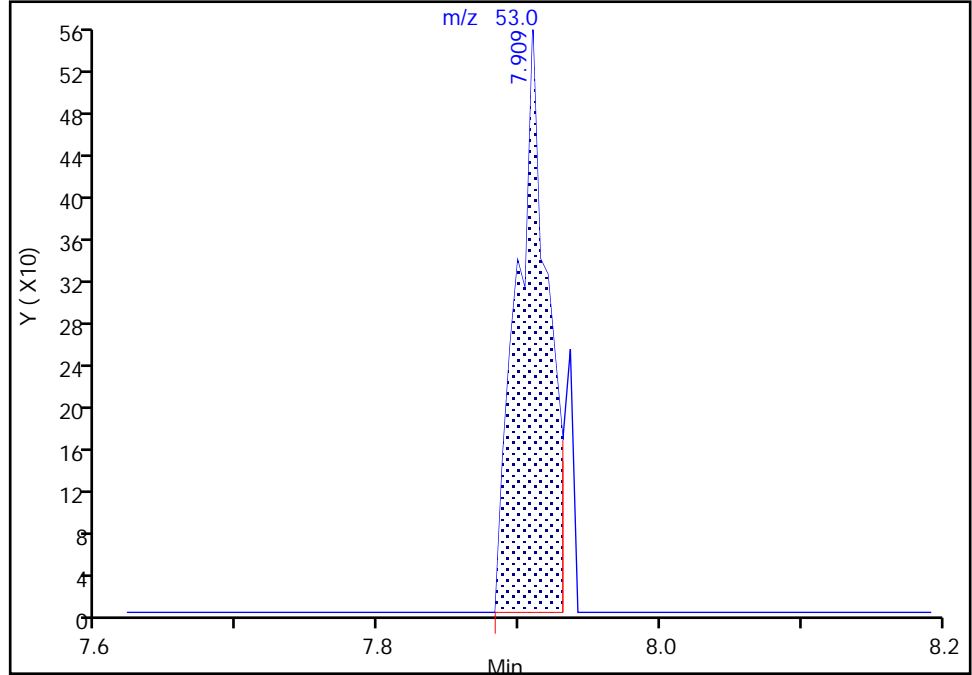
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

32 Acrylonitrile, CAS: 107-13-1

Signal: 1

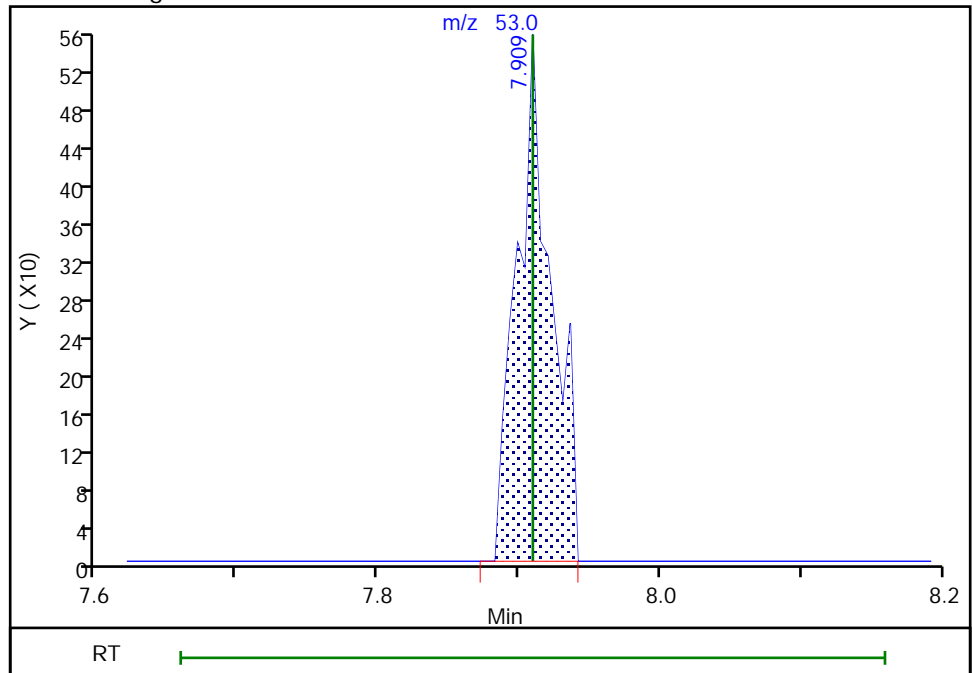
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Area: 862  
Amount: 0.161214  
Amount Units: ppb v/v

Processing Integration Results



RT: 7.91  
Area: 943  
Amount: 0.176363  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:32:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

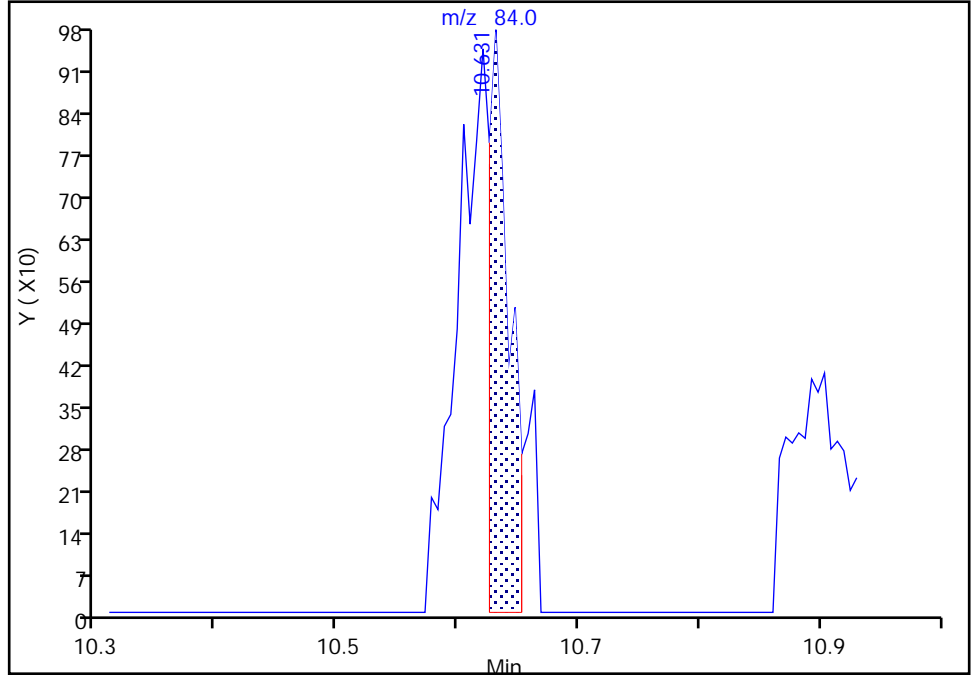
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

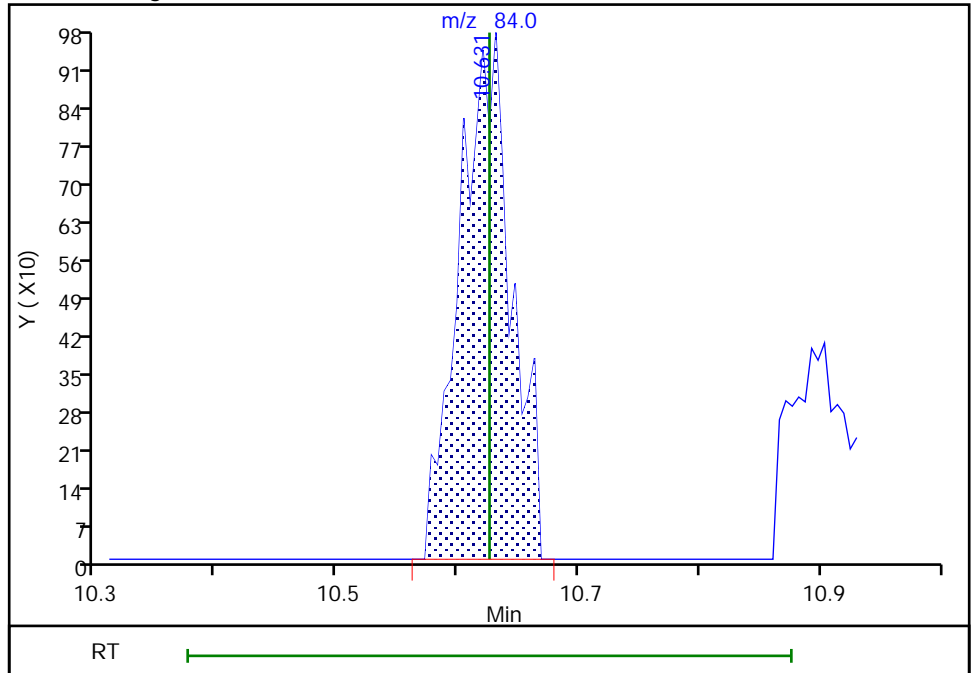
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Area: 1177  
Amount: 0.089094  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.63  
Area: 2888  
Amount: 0.200136  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:32:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

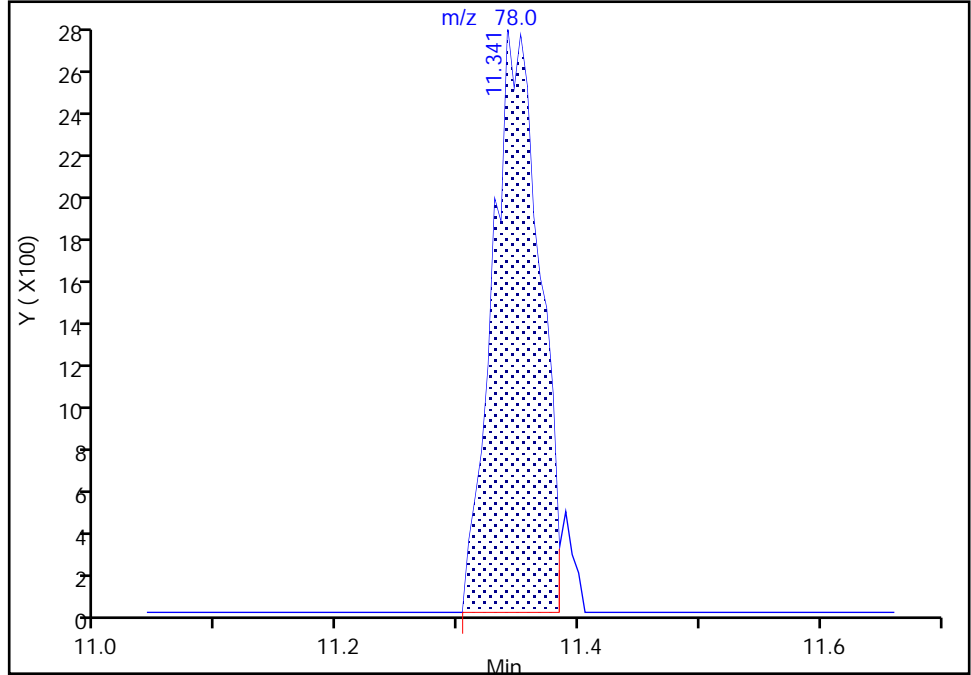
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 1

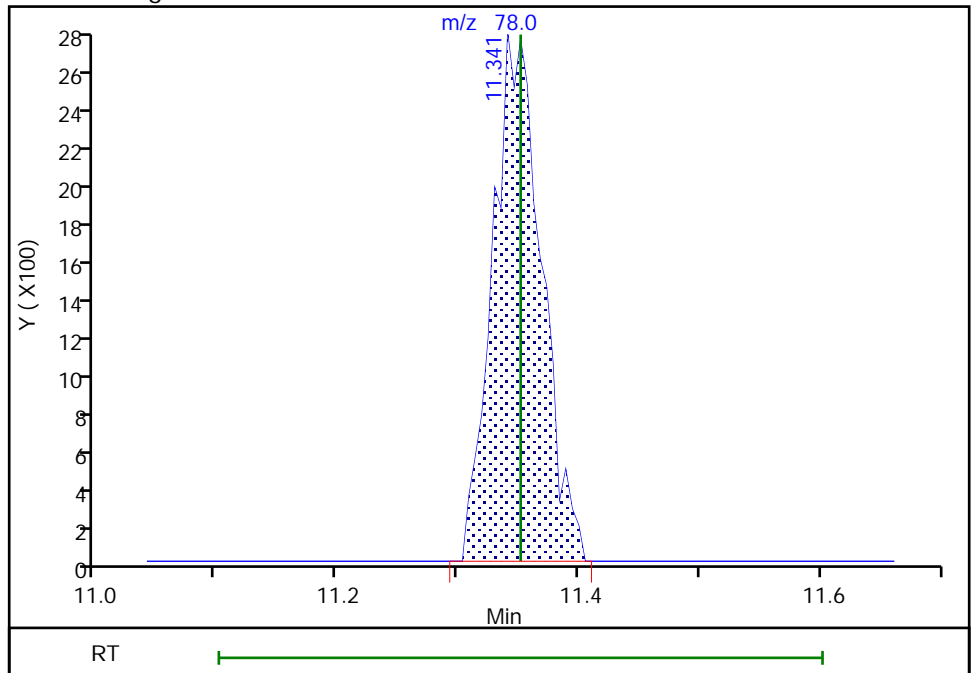
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Amount: 0.207308  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.34  
Area: 7681  
Amount: 0.214396  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

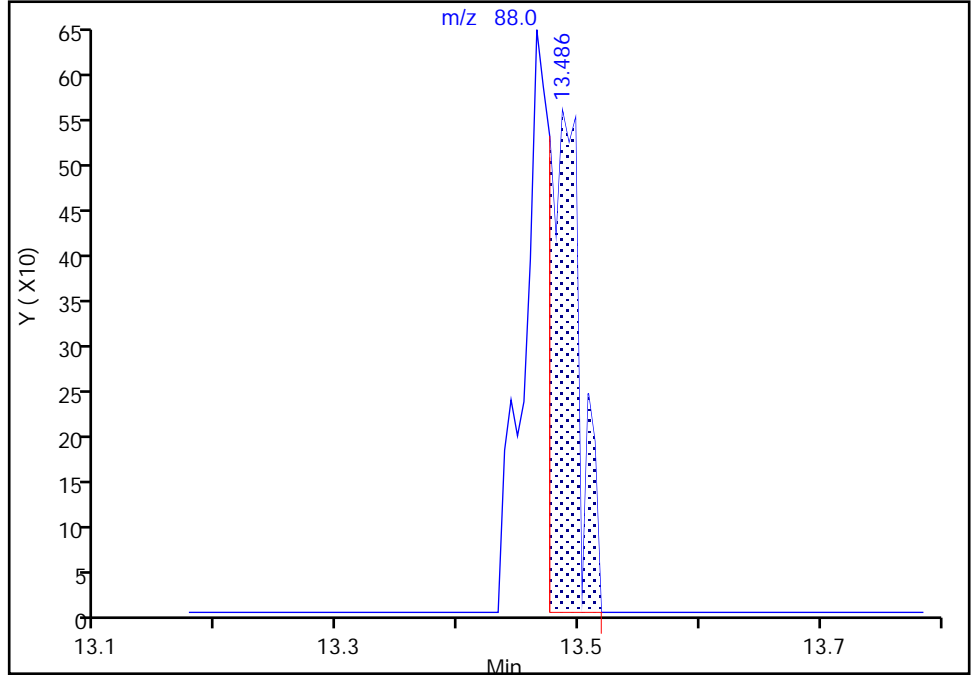
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

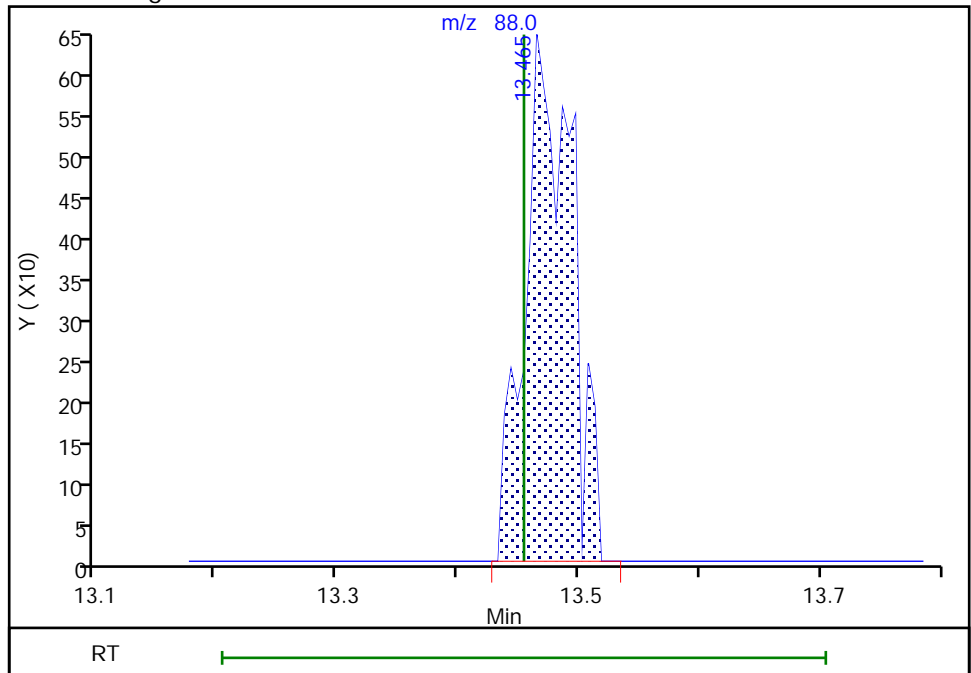
RT: 13.49  
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Amount: 0.109649  
Amount Units: ppb v/v

Processing Integration Results



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Area: 1750  
Amount: 0.200090  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

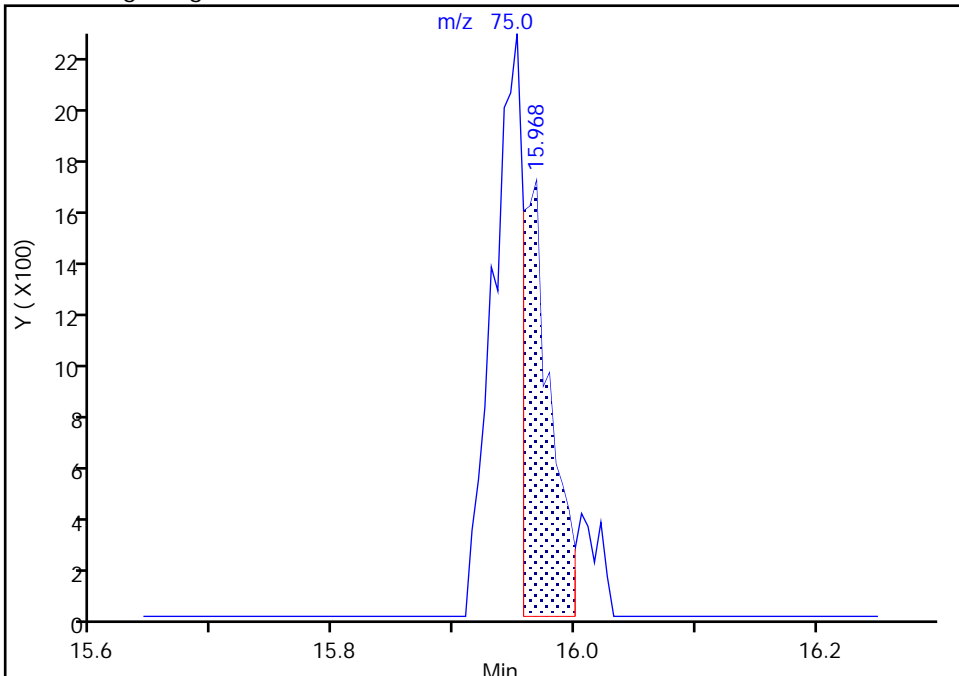
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Lims ID: ic  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

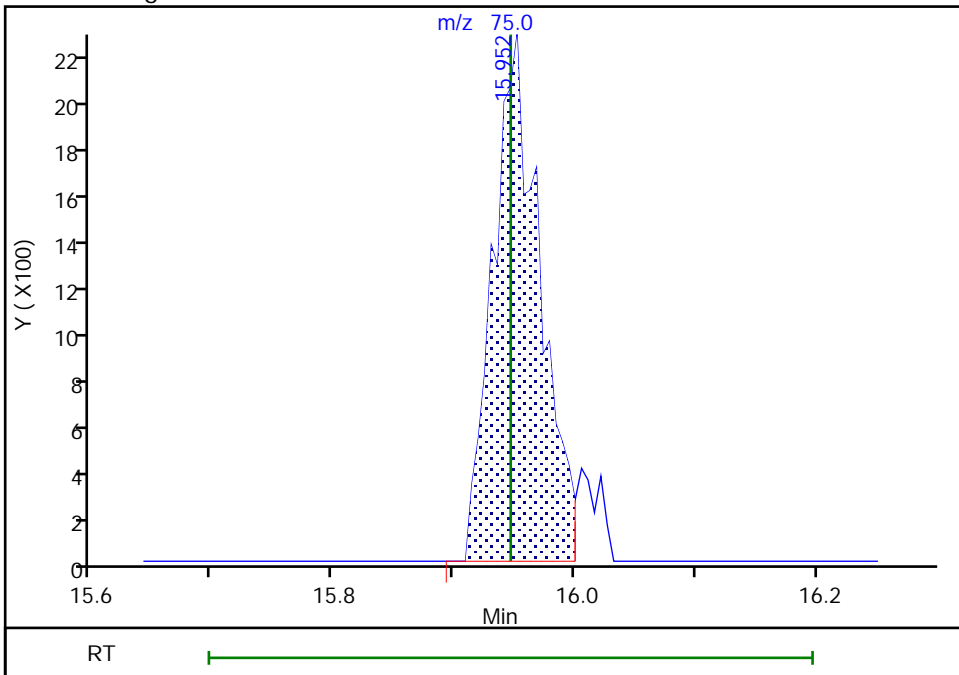
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Amount: 0.105755  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.95  
Area: 6075  
Amount: 0.217393  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:33:43  
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-06.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 04-Dec-2018 22:37:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-006  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:23 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:35:08

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.967     | 2.962         | 0.005         | 92  | 3974     | 0.5005          | 0.4901            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.037     | 3.031         | 0.006         | 98  | 19180    | 0.5005          | 0.4814            |       |
| 3 Chlorodifluoromethane       | 51  | 3.085     | 3.080         | 0.005         | 98  | 9680     | 0.5005          | 0.4820            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.298     | 3.288         | 0.010         | 91  | 14514    | 0.5005          | 0.4653            |       |
| 5 Chloromethane               | 50  | 3.426     | 3.416         | 0.010         | 97  | 3732     | 0.5005          | 0.4958            |       |
| 6 Butane                      | 43  | 3.618     | 3.619         | -0.001        | 94  | 5571     | 0.5005          | 0.4957            |       |
| 7 Vinyl chloride              | 62  | 3.661     | 3.656         | 0.005         | 99  | 3797     | 0.5005          | 0.4395            |       |
| 8 Butadiene                   | 54  | 3.741     | 3.731         | 0.010         | 92  | 2799     | 0.5005          | 0.4869            |       |
| 10 Bromomethane               | 94  | 4.397     | 4.392         | 0.005         | 93  | 3896     | 0.5005          | 0.5017            |       |
| 11 Chloroethane               | 64  | 4.638     | 4.627         | 0.011         | 80  | 1620     | 0.5005          | 0.4897            |       |
| 12 2-Methylbutane             | 43  | 4.707     | 4.713         | -0.006        | 64  | 3326     | 0.5005          | 0.5085            |       |
| 13 Vinyl bromide              | 106 | 5.022     | 5.022         | 0.000         | 92  | 4561     | 0.5005          | 0.4840            |       |
| 14 Trichlorofluoromethane     | 101 | 5.139     | 5.134         | 0.005         | 97  | 18598    | 0.5005          | 0.5058            |       |
| 16 Pentane                    | 43  | 5.289     | 5.284         | 0.005         | 95  | 7215     | 0.5005          | 0.5424            |       |
| 17 Ethanol                    | 45  | 5.716     | 5.716         | 0.000         | 98  | 19923    | 5.01            | 6.46              |       |
| 18 Ethyl ether                | 59  | 5.812     | 5.801         | 0.011         | 89  | 2982     | 0.5005          | 0.5107            |       |
| 19 Acrolein                   | 56  | 6.175     | 6.159         | 0.016         | 21  | 1419     | 0.5005          | 0.5252            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.217     | 6.223         | -0.006        | 93  | 10995    | 0.5005          | 0.4585            |       |
| 21 1,1-Dichloroethene         | 96  | 6.255     | 6.250         | 0.005         | 92  | 4914     | 0.5005          | 0.5059            |       |
| 22 Acetone                    | 43  | 6.474     | 6.468         | 0.006         | 100 | 15887    | 0.5005          | 0.9833            |       |
| 23 Carbon disulfide           | 76  | 6.628     | 6.629         | -0.001        | 99  | 12805    | 0.5005          | 0.4777            |       |
| 24 Isopropyl alcohol          | 45  | 6.815     | 6.794         | 0.021         | 95  | 7054     | 0.5005          | 0.4964            |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 86  | 5082     | 0.5005          | 0.5304            |       |
| 26 Acetonitrile               | 41  | 7.141     | 7.136         | 0.005         | 98  | 2820     | 0.5005          | 0.5622            |       |
| 27 Methylene Chloride         | 49  | 7.338     | 7.333         | 0.005         | 95  | 6033     | 0.5005          | 0.5461            |       |
| 28 2-Methyl-2-propanol        | 59  | 7.594     | 7.573         | 0.021         | 97  | 10726    | 0.5005          | 0.4995            |       |
| 29 Methyl tert-butyl ether    | 73  | 7.760     | 7.749         | 0.011         | 94  | 15769    | 0.5005          | 0.4937            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.787         | -0.006        | 95  | 7899     | 0.5005          | 0.5477            |       |
| 32 Acrylonitrile              | 53  | 7.915     | 7.909         | 0.005         | 72  | 2281     | 0.5005          | 0.4240            |       |
| 33 Hexane                     | 57  | 8.187     | 8.192         | -0.005        | 85  | 6636     | 0.5005          | 0.5259            |       |



| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.651     | 8.651          | 0.000         | 98 | 9285     | 0.5005          | 0.4974            |       |
| 35 Vinyl acetate               | 43  | 8.747     | 8.737          | 0.010         | 99 | 10689    | 0.5005          | 0.4730            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.766     | 9.767          | -0.001        | 98 | 5832     | 0.5005          | 0.5245            |       |
| 38 2-Butanone (MEK)            | 72  | 9.814     | 9.804          | 0.010         | 99 | 2033     | 0.5005          | 0.4340            |       |
| 39 Ethyl acetate               | 88  |           | 9.873          |               |    |          | ND              | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |          | 1.00            | 1.07              |       |
| * 40 Chlorobromomethane        | 128 | 10.225    | 10.226         | -0.001        | 82 | 203426   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.273    | 10.231         | 0.042         | 86 | 4635     | 0.5005          | 0.5093            |       |
| 42 Chloroform                  | 83  | 10.364    | 10.370         | -0.006        | 82 | 7407     | 0.5005          | 0.2773            |       |
| 43 Cyclohexane                 | 84  | 10.620    | 10.626         | -0.006        | 61 | 7349     | 0.5005          | 0.5013            |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.642    | 10.642         | 0.000         | 96 | 18158    | 0.5005          | 0.5159            |       |
| 45 Carbon tetrachloride        | 117 | 10.909    | 10.898         | 0.011         | 96 | 17882    | 0.5005          | 0.4707            |       |
| 47 Benzene                     | 78  | 11.351    | 11.352         | -0.001        | 98 | 18867    | 0.5005          | 0.5184            |       |
| 46 Isooctane                   | 57  | 11.357    | 11.352         | 0.005         | 89 | 27180    | 0.5005          | 0.5286            |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99 | 12291    | 0.5005          | 0.5220            |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 82 | 9935     | 0.5005          | 0.5331            |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 95 | 1158696  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.648    | 12.617         | 0.031         | 76 | 4849     | 0.5005          | 0.6814            |       |
| 53 Trichloroethene             | 95  | 12.670    | 12.681         | -0.011        | 95 | 11081    | 0.5005          | 0.5556            |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 8586229  | 0.5005          | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.214    | 13.220         | -0.006        | 79 | 7707     | 0.5005          | 0.5449            |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 93 | 7256     | 0.5005          | 0.4944            |       |
| 56 1,4-Dioxane                 | 88  | 13.476    | 13.454         | 0.022         | 47 | 4467     | 0.5005          | 0.5027            |       |
| 57 Dibromomethane              | 174 | 13.481    | 13.486         | -0.005        | 92 | 12049    | 0.5005          | 0.5359            |       |
| 58 Dichlorobromomethane        | 83  | 13.801    | 13.801         | 0.000         | 98 | 18665    | 0.5005          | 0.4926            |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 11193832 | 0.5005          | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.740    | 14.746         | -0.006        | 96 | 14426    | 0.5005          | 0.5221            |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.039    | 15.029         | 0.010         | 94 | 15874    | 0.5005          | 0.5311            |       |
| 65 Toluene                     | 92  | 15.343    | 15.338         | 0.005         | 92 | 17555    | 0.5005          | 0.5155            |       |
| 64 n-Octane                    | 43  | 15.440    | 15.445         | -0.005        | 85 | 17096    | 0.5005          | 0.5804            |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.941    | 15.947         | -0.006        | 97 | 14348    | 0.5005          | 0.5054            |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 97 | 8690     | 0.5005          | 0.5272            |       |
| 68 Tetrachloroethene           | 166 | 16.448    | 16.443         | 0.005         | 95 | 16700    | 0.5005          | 0.4855            |       |
| 69 2-Hexanone                  | 43  | 16.774    | 16.763         | 0.011         | 92 | 17056    | 0.5005          | 0.5510            |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 98 | 14443    | 0.5005          | 0.3676            |       |
| 72 Ethylene Dibromide          | 107 | 17.339    | 17.334         | 0.005         | 98 | 15848    | 0.5005          | 0.4821            |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 89 | 1239778  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.305    | 18.306         | -0.001        | 96 | 24492    | 0.5005          | 0.5162            |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 99 | 41281    | 0.5005          | 0.5202            |       |
| 77 n-Nonane                    | 57  | 18.631    | 18.626         | 0.005         | 85 | 18065    | 0.5005          | 0.5646            |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.716    | 18.717         | -0.001        | 0  | 30923    | 1.00            | 1.06              |       |
| 79 o-Xylene                    | 106 | 19.554    | 19.549         | 0.005         | 97 | 14456    | 0.5005          | 0.5059            |       |
| 80 Styrene                     | 104 | 19.602    | 19.603         | -0.001        | 98 | 19615    | 0.5005          | 0.4447            |       |
| 81 Bromoform                   | 173 | 20.040    | 20.035         | 0.005         | 93 | 6073     | 0.5005          | 0.1706            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          | 1.50            | 1.57              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 97 | 45580    | 0.5005          | 0.4998            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 98 | 22913    | 0.5005          | 0.5418            |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 98 | 55041    | 0.5005          | 0.5153            |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 95 | 18904    | 0.5005          | 0.5169            |       |
| 88 4-Ethyltoluene              | 105 | 21.203    | 21.204         | -0.001        | 93 | 46560    | 0.5005          | 0.5222            |       |
| 89 2-Chlorotoluene             | 91  | 21.209    | 21.204         | 0.005         | 93 | 41307    | 0.5005          | 0.5336            |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 95 | 22371    | 0.5005          | 0.5583            |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 92 | 40868    | 0.5005          | 0.5084            |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 87 | 15714    | 0.5005          | 0.4293            |       |
| 92 tert-Butylbenzene       | 119 | 21.806    | 21.807        | -0.001        | 91 | 38763    | 0.5005          | 0.5068            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 40608    | 0.5005          | 0.5040            |       |
| 94 sec-Butylbenzene        | 105 | 22.137    | 22.143        | -0.006        | 98 | 57510    | 0.5005          | 0.5184            |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 96 | 50688    | 0.5005          | 0.5208            |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 99 | 29110    | 0.5005          | 0.5342            |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.511    | 22.506        | 0.005         | 91 | 29770    | 0.5005          | 0.5383            |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 39729    | 0.5005          | 0.5253            |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 98 | 48300    | 0.5005          | 0.5438            |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 92 | 26945    | 0.5005          | 0.6250            |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 94 | 28358    | 0.5005          | 0.5355            |       |
| 102 Dodecane               | 57  | 24.491    | 24.486        | 0.005         | 93 | 27068    | 0.5005          | 0.6519            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 93 | 28251    | 0.5005          | 0.5927            |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 97 | 24014    | 0.5005          | 0.5383            |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 58480    | 0.5005          | 0.6217            |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 95 | 26038    | 0.5005          | 0.5887            |       |

**QC Flag Legend**

## Processing Flags

ND - Not Detected or Marked ND

**Reagents:**

ATTO15CAL2w\_00274

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-06.D

Injection Date: 04-Dec-2018 22:37:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 6

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

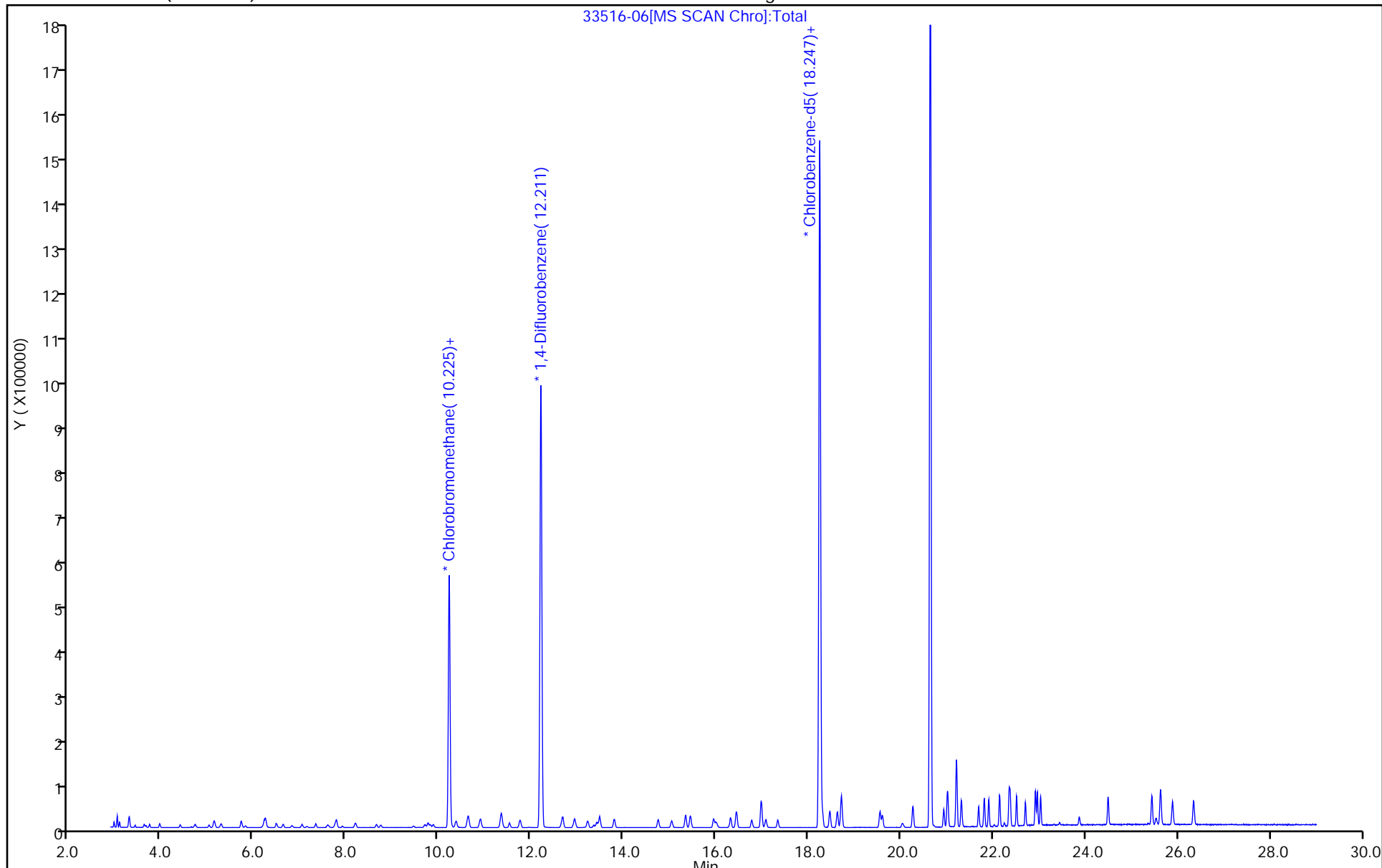
ALS Bottle#: 6

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-07.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 04-Dec-2018 23:31:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-007  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:26 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:35:43

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.957     | 2.962         | -0.005        | 93  | 40120    | 4.99            | 4.91              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.026     | 3.031         | -0.005        | 99  | 191784   | 4.99            | 4.78              |       |
| 3 Chlorodifluoromethane       | 51  | 3.074     | 3.080         | -0.006        | 98  | 97707    | 4.99            | 4.83              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.282     | 3.288         | -0.006        | 93  | 152873   | 4.99            | 4.87              |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 98  | 38535    | 4.99            | 5.08              |       |
| 6 Butane                      | 43  | 3.613     | 3.619         | -0.006        | 92  | 55852    | 4.99            | 4.93              |       |
| 7 Vinyl chloride              | 62  | 3.650     | 3.656         | -0.006        | 99  | 40792    | 4.99            | 4.69              |       |
| 8 Butadiene                   | 54  | 3.725     | 3.731         | -0.006        | 92  | 27371    | 4.99            | 4.73              |       |
| 10 Bromomethane               | 94  | 4.387     | 4.392         | -0.005        | 97  | 37213    | 4.99            | 4.76              |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 96  | 16140    | 4.99            | 4.84              |       |
| 12 2-Methylbutane             | 43  | 4.718     | 4.713         | 0.005         | 83  | 32303    | 4.99            | 4.90              |       |
| 13 Vinyl bromide              | 106 | 5.017     | 5.022         | -0.005        | 96  | 47876    | 4.99            | 5.04              |       |
| 14 Trichlorofluoromethane     | 101 | 5.129     | 5.134         | -0.005        | 99  | 185385   | 4.99            | 5.01              |       |
| 16 Pentane                    | 43  | 5.278     | 5.284         | -0.006        | 94  | 68680    | 4.99            | 5.13              |       |
| 17 Ethanol                    | 45  | 5.705     | 5.716         | -0.011        | 98  | 29368    | 10.0            | 9.45              |       |
| 18 Ethyl ether                | 59  | 5.796     | 5.801         | -0.005        | 95  | 31042    | 4.99            | 5.28              |       |
| 19 Acrolein                   | 56  | 6.159     | 6.159         | 0.000         | 98  | 13168    | 4.99            | 4.84              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218     | 6.223         | -0.005        | 96  | 121750   | 4.99            | 5.04              |       |
| 21 1,1-Dichloroethene         | 96  | 6.239     | 6.250         | -0.011        | 94  | 49619    | 4.99            | 5.07              |       |
| 22 Acetone                    | 43  | 6.468     | 6.468         | 0.000         | 100 | 86319    | 4.99            | 5.30              |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 99  | 135390   | 4.99            | 5.01              |       |
| 24 Isopropyl alcohol          | 45  | 6.794     | 6.794         | 0.000         | 98  | 75584    | 4.99            | 5.28              |       |
| 25 3-Chloro-1-propene         | 41  | 7.029     | 7.039         | -0.010        | 90  | 41421    | 4.99            | 4.29              |       |
| 26 Acetonitrile               | 41  | 7.135     | 7.136         | -0.001        | 97  | 27525    | 4.99            | 5.45              |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 95  | 57491    | 4.99            | 5.17              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.568     | 7.573         | -0.005        | 97  | 117012   | 4.99            | 5.41              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.749     | 7.749         | 0.000         | 94  | 162770   | 4.99            | 5.06              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.787         | -0.006        | 95  | 78901    | 4.99            | 5.43              |       |
| 32 Acrylonitrile              | 53  | 7.904     | 7.909         | -0.005        | 91  | 28753    | 4.99            | 5.31              |       |
| 33 Hexane                     | 57  | 8.187     | 8.192         | -0.005        | 85  | 64726    | 4.99            | 5.09              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.640     | 8.651          | -0.011        | 98  | 95739    | 4.99            | 5.09              |       |
| 35 Vinyl acetate               | 43  | 8.731     | 8.737          | -0.006        | 99  | 120405   | 4.99            | 5.29              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.761     | 9.767          | -0.006        | 97  | 57285    | 4.99            | 5.11              |       |
| 38 2-Butanone (MEK)            | 72  | 9.799     | 9.804          | -0.005        | 100 | 24326    | 4.99            | 5.16              |       |
| 39 Ethyl acetate               | 88  | 9.873     | 9.873          | 0.000         | 99  | 4448     | 4.99            | 4.93              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |          | 9.99            | 10.5              |       |
| * 40 Chlorobromomethane        | 128 | 10.220    | 10.226         | -0.006        | 82  | 204902   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.236    | 10.231         | 0.005         | 91  | 51511    | 4.99            | 5.60              |       |
| 42 Chloroform                  | 83  | 10.370    | 10.370         | 0.000         | 98  | 152527   | 4.99            | 5.67              |       |
| 43 Cyclohexane                 | 84  | 10.620    | 10.626         | -0.006        | 76  | 76045    | 4.99            | 5.13              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.636    | 10.642         | -0.006        | 95  | 180304   | 4.99            | 5.06              |       |
| 45 Carbon tetrachloride        | 117 | 10.898    | 10.898         | 0.000         | 97  | 195076   | 4.99            | 5.08              |       |
| 47 Benzene                     | 78  | 11.352    | 11.352         | 0.000         | 98  | 191262   | 4.99            | 5.19              |       |
| 46 Isooctane                   | 57  | 11.346    | 11.352         | -0.006        | 95  | 278322   | 4.99            | 5.35              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99  | 126026   | 4.99            | 5.29              |       |
| 49 n-Heptane                   | 43  | 11.752    | 11.757         | -0.005        | 87  | 103703   | 4.99            | 5.50              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 96  | 1172195  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.622    | 12.617         | 0.005         | 90  | 42071    | 4.99            | 5.84              |       |
| 53 Trichloroethene             | 95  | 12.680    | 12.681         | -0.001        | 95  | 111956   | 4.99            | 5.55              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0   | 39675677 | 4.99            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.220    | 13.220         | 0.000         | 78  | 81207    | 4.99            | 5.68              |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 92  | 80624    | 4.99            | 5.43              |       |
| 56 1,4-Dioxane                 | 88  | 13.460    | 13.454         | 0.006         | 95  | 53417    | 4.99            | 5.94              |       |
| 57 Dibromomethane              | 174 | 13.481    | 13.486         | -0.005        | 94  | 121482   | 4.99            | 5.34              |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.801         | -0.005        | 99  | 206792   | 4.99            | 5.39              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0   | 61458023 | 4.99            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 98  | 153729   | 4.99            | 5.50              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.029    | 15.029         | 0.000         | 96  | 180615   | 4.99            | 5.97              |       |
| 65 Toluene                     | 92  | 15.338    | 15.338         | 0.000         | 93  | 177957   | 4.99            | 5.08              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 86  | 175878   | 4.99            | 5.90              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 97  | 151993   | 4.99            | 5.29              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 98  | 89080    | 4.99            | 5.26              |       |
| 68 Tetrachloroethene           | 166 | 16.438    | 16.443         | -0.005        | 95  | 172870   | 4.99            | 4.89              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 94  | 177058   | 4.99            | 5.56              |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 97  | 208652   | 4.99            | 5.17              |       |
| 72 Ethylene Dibromide          | 107 | 17.340    | 17.334         | 0.006         | 98  | 174074   | 4.99            | 5.15              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 89  | 1274811  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 92  | 248172   | 4.99            | 5.09              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 99  | 420763   | 4.99            | 5.16              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 85  | 182495   | 4.99            | 5.55              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.717         | -0.006        | 0   | 313774   | 9.99            | 10.5              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98  | 151539   | 4.99            | 5.16              |       |
| 80 Styrene                     | 104 | 19.602    | 19.603         | -0.001        | 99  | 243198   | 4.99            | 5.36              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 96  | 200186   | 4.99            | 5.47              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |          | 15.0            | 15.6              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 97  | 484356   | 4.99            | 5.17              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 99  | 233953   | 4.99            | 5.38              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 99  | 571792   | 4.99            | 5.21              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 97  | 203261   | 4.99            | 5.40              |       |
| 88 4-Ethyltoluene              | 105 | 21.204    | 21.204         | 0.000         | 98  | 476320   | 4.99            | 5.20              |       |
| 89 2-Chlorotoluene             | 91  | 21.204    | 21.204         | 0.000         | 94  | 416969   | 4.99            | 5.24              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 95  | 234755   | 4.99            | 5.70              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 92 | 418991   | 4.99            | 5.07              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 86 | 197131   | 4.99            | 5.24              |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000         | 90 | 400063   | 4.99            | 5.09              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 421470   | 4.99            | 5.09              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 556435   | 4.99            | 4.88              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 484263   | 4.99            | 4.84              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 98 | 272027   | 4.99            | 4.85              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000         | 93 | 266050   | 4.99            | 4.68              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 356417   | 4.99            | 4.58              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 98 | 442693   | 4.99            | 4.85              |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 92 | 235754   | 4.99            | 5.32              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 95 | 256240   | 4.99            | 4.71              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 94 | 219615   | 4.99            | 5.14              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 95 | 210832   | 4.99            | 4.30              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 97 | 222512   | 4.99            | 4.85              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 395916   | 4.99            | 4.09              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 96 | 191599   | 4.99            | 4.21              |       |

**Reagents:**

ATTO15CAL3w\_00210

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-07.D

Injection Date: 04-Dec-2018 23:31:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 7

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

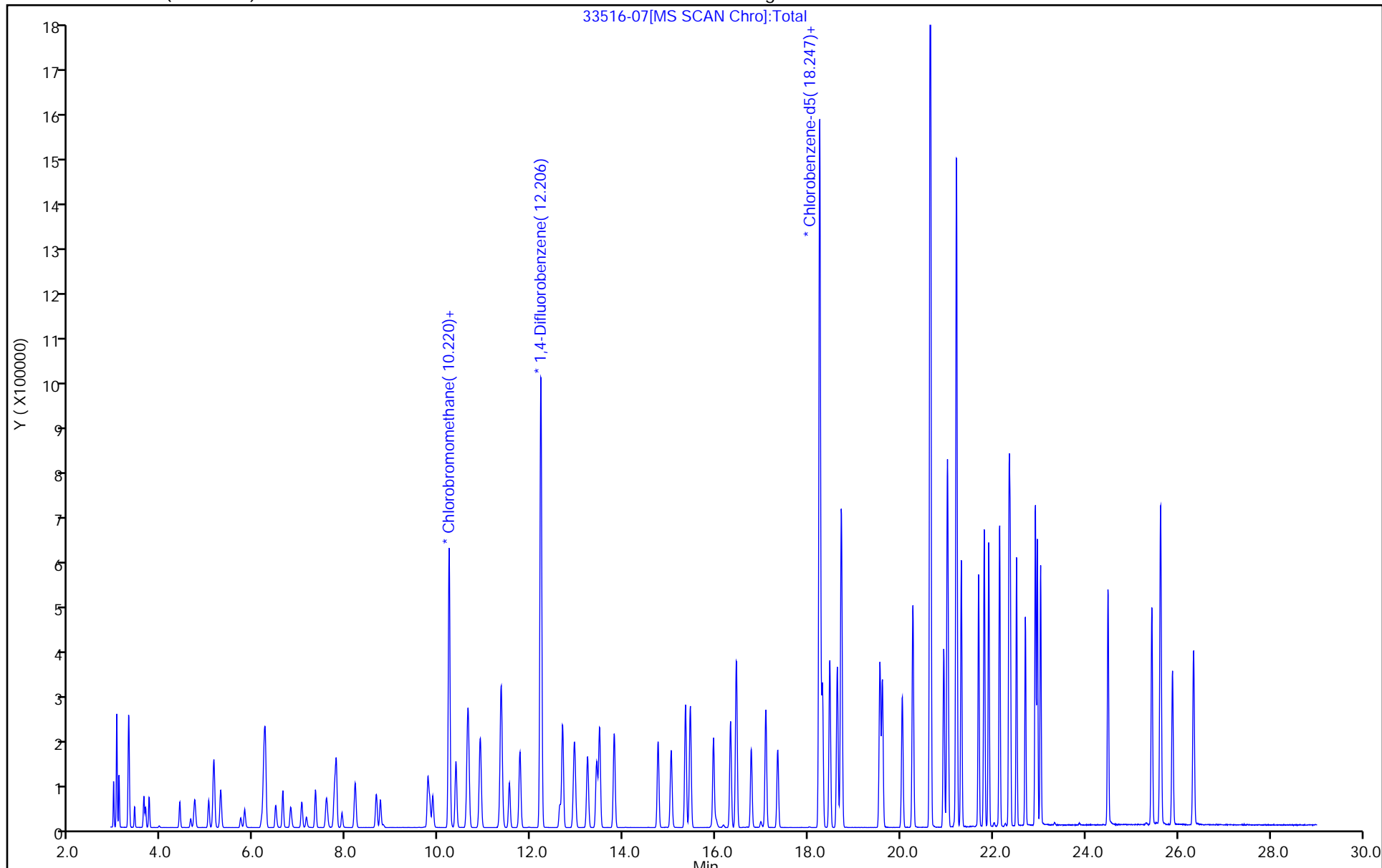
ALS Bottle#: 7

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 05-Dec-2018 00:25:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-008  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:55:29 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: tobere

Date: 06-Dec-2018 10:55:28

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.962     | 2.962         | 0.000         | 93  | 78132    | 10.0            | 10.1              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.031     | 3.031         | 0.000         | 99  | 373195   | 10.0            | 9.86              |       |
| 3 Chlorodifluoromethane       | 51  | 3.080     | 3.080         | 0.000         | 98  | 195954   | 10.0            | 10.3              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.288     | 3.288         | 0.000         | 93  | 301184   | 10.0            | 10.2              |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 99  | 71740    | 10.0            | 10.0              |       |
| 6 Butane                      | 43  | 3.619     | 3.619         | 0.000         | 92  | 105508   | 10.0            | 9.89              |       |
| 7 Vinyl chloride              | 62  | 3.656     | 3.656         | 0.000         | 99  | 77427    | 10.0            | 9.44              |       |
| 8 Butadiene                   | 54  | 3.731     | 3.731         | 0.000         | 94  | 54013    | 10.0            | 9.89              |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 96  | 72072    | 10.0            | 9.77              |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 96  | 31405    | 10.0            | 10.0              |       |
| 12 2-Methylbutane             | 43  | 4.713     | 4.713         | 0.000         | 84  | 62402    | 10.0            | 10.0              |       |
| 13 Vinyl bromide              | 106 | 5.022     | 5.022         | 0.000         | 97  | 90209    | 10.0            | 10.1              |       |
| 14 Trichlorofluoromethane     | 101 | 5.134     | 5.134         | 0.000         | 99  | 346021   | 10.0            | 9.91              |       |
| 16 Pentane                    | 43  | 5.284     | 5.284         | 0.000         | 95  | 128322   | 10.0            | 10.2              |       |
| 17 Ethanol                    | 45  | 5.716     | 5.716         | 0.000         | 97  | 53196    | 15.0            | 18.2              |       |
| 18 Ethyl ether                | 59  | 5.801     | 5.801         | 0.000         | 96  | 56421    | 10.0            | 10.2              |       |
| 19 Acrolein                   | 56  | 6.159     | 6.159         | 0.000         | 99  | 24894    | 10.0            | 9.70              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223     | 6.223         | 0.000         | 95  | 229274   | 10.0            | 10.1              |       |
| 21 1,1-Dichloroethene         | 96  | 6.250     | 6.250         | 0.000         | 94  | 92119    | 10.0            | 9.99              |       |
| 22 Acetone                    | 43  | 6.468     | 6.468         | 0.000         | 100 | 161089   | 10.0            | 10.5              |       |
| 23 Carbon disulfide           | 76  | 6.629     | 6.629         | 0.000         | 99  | 254997   | 10.0            | 10.0              |       |
| 24 Isopropyl alcohol          | 45  | 6.794     | 6.794         | 0.000         | 98  | 146155   | 10.0            | 10.8              |       |
| 25 3-Chloro-1-propene         | 41  | 7.039     | 7.039         | 0.000         | 87  | 78710    | 10.0            | 8.65              |       |
| 26 Acetonitrile               | 41  | 7.136     | 7.136         | 0.000         | 96  | 46361    | 10.0            | 9.73              | M     |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 94  | 104286   | 10.0            | 9.94              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.573     | 7.573         | 0.000         | 96  | 218985   | 10.0            | 10.7              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.749     | 7.749         | 0.000         | 94  | 298270   | 10.0            | 9.83              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.787     | 7.787         | 0.000         | 95  | 145140   | 10.0            | 10.6              |       |
| 32 Acrylonitrile              | 53  | 7.909     | 7.909         | 0.000         | 90  | 52515    | 10.0            | 10.3              |       |
| 33 Hexane                     | 57  | 8.192     | 8.192         | 0.000         | 86  | 118957   | 10.0            | 9.93              |       |



| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.651     | 8.651          | 0.000         | 98  | 171683    | 10.0            | 9.68              |       |
| 35 Vinyl acetate               | 43  | 8.737     | 8.737          | 0.000         | 99  | 218622    | 10.0            | 10.2              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.767     | 9.767          | 0.000         | 96  | 107073    | 10.0            | 10.1              |       |
| 38 2-Butanone (MEK)            | 72  | 9.804     | 9.804          | 0.000         | 100 | 46650     | 10.0            | 10.5              |       |
| 39 Ethyl acetate               | 88  | 9.873     | 9.873          | 0.000         | 99  | 8414      | 10.0            | 9.89              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 20.7              |       |
| * 40 Chlorobromomethane        | 128 | 10.226    | 10.226         | 0.000         | 82  | 193200    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.231    | 10.231         | 0.000         | 57  | 88731     | 10.0            | 10.2              |       |
| 42 Chloroform                  | 83  | 10.370    | 10.370         | 0.000         | 97  | 275892    | 10.0            | 10.9              |       |
| 43 Cyclohexane                 | 84  | 10.626    | 10.626         | 0.000         | 93  | 136701    | 10.0            | 9.75              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.642    | 10.642         | 0.000         | 96  | 329581    | 10.0            | 9.79              |       |
| 45 Carbon tetrachloride        | 117 | 10.898    | 10.898         | 0.000         | 97  | 361014    | 10.0            | 9.94              |       |
| 47 Benzene                     | 78  | 11.352    | 11.352         | 0.000         | 98  | 339283    | 10.0            | 9.75              |       |
| 46 Isooctane                   | 57  | 11.352    | 11.352         | 0.000         | 95  | 494490    | 10.0            | 10.1              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99  | 229565    | 10.0            | 10.2              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 88  | 183833    | 10.0            | 10.3              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 95  | 1108113   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.617    | 12.617         | 0.000         | 90  | 74864     | 10.0            | 11.0              |       |
| 53 Trichloroethene             | 95  | 12.681    | 12.681         | 0.000         | 96  | 202790    | 10.0            | 10.6              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0   | 66559083  | 10.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.220    | 13.220         | 0.000         | 78  | 141370    | 10.0            | 10.5              |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 91  | 147127    | 10.0            | 10.5              |       |
| 56 1,4-Dioxane                 | 88  | 13.454    | 13.454         | 0.000         | 93  | 94467     | 10.0            | 11.1              |       |
| 57 Dibromomethane              | 174 | 13.486    | 13.486         | 0.000         | 93  | 219780    | 10.0            | 10.2              |       |
| 58 Dichlorobromomethane        | 83  | 13.801    | 13.801         | 0.000         | 99  | 375962    | 10.0            | 10.4              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0   | 105422387 | 10.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 98  | 273703    | 10.0            | 10.4              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.029    | 15.029         | 0.000         | 95  | 309044    | 10.0            | 10.8              |       |
| 65 Toluene                     | 92  | 15.338    | 15.338         | 0.000         | 93  | 316227    | 10.0            | 9.76              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 85  | 302866    | 10.0            | 10.8              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 97  | 274340    | 10.0            | 10.1              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 97  | 156612    | 10.0            | 10.0              |       |
| 68 Tetrachloroethene           | 166 | 16.443    | 16.443         | 0.000         | 95  | 313637    | 10.0            | 9.59              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 94  | 308503    | 10.0            | 10.5              |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 98  | 392091    | 10.0            | 10.5              |       |
| 72 Ethylene Dibromide          | 107 | 17.334    | 17.334         | 0.000         | 98  | 318526    | 10.0            | 10.2              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 90  | 1179025   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 92  | 442310    | 10.0            | 9.80              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 99  | 755751    | 10.0            | 10.0              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 90  | 313778    | 10.0            | 10.3              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.717    | 18.717         | 0.000         | 0   | 554082    | 20.0            | 20.0              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98  | 267134    | 10.0            | 9.83              |       |
| 80 Styrene                     | 104 | 19.603    | 19.603         | 0.000         | 98  | 436090    | 10.0            | 10.4              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 96  | 369932    | 10.0            | 10.9              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 29.8              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 97  | 853764    | 10.0            | 9.84              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 98  | 399283    | 10.0            | 9.93              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 98  | 994548    | 10.0            | 9.79              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 93  | 346539    | 10.0            | 9.96              |       |
| 88 4-Ethyltoluene              | 105 | 21.204    | 21.204         | 0.000         | 98  | 831544    | 10.0            | 9.81              |       |
| 89 2-Chlorotoluene             | 91  | 21.204    | 21.204         | 0.000         | 94  | 718532    | 10.0            | 9.76              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 96  | 391427    | 10.0            | 10.3              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 91 | 742159   | 10.0            | 9.71              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 86 | 358804   | 10.0            | 10.3              |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000         | 90 | 702209   | 10.0            | 9.65              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 744612   | 10.0            | 9.72              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 1046102  | 10.0            | 9.92              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 96 | 874281   | 10.0            | 9.45              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 98 | 480093   | 10.0            | 9.26              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000         | 95 | 488365   | 10.0            | 9.29              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 97 | 655100   | 10.0            | 9.11              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 98 | 797934   | 10.0            | 9.45              |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 91 | 409303   | 10.0            | 9.98              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 94 | 460441   | 10.0            | 9.14              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 96 | 354099   | 10.0            | 8.97              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 94 | 359994   | 10.0            | 7.94              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 97 | 372421   | 10.0            | 8.78              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 669821   | 10.0            | 7.49              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 95 | 327403   | 10.0            | 7.78              |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL4w\_00715

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D

Injection Date: 05-Dec-2018 00:25:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: icis

Worklist Smp#: 8

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

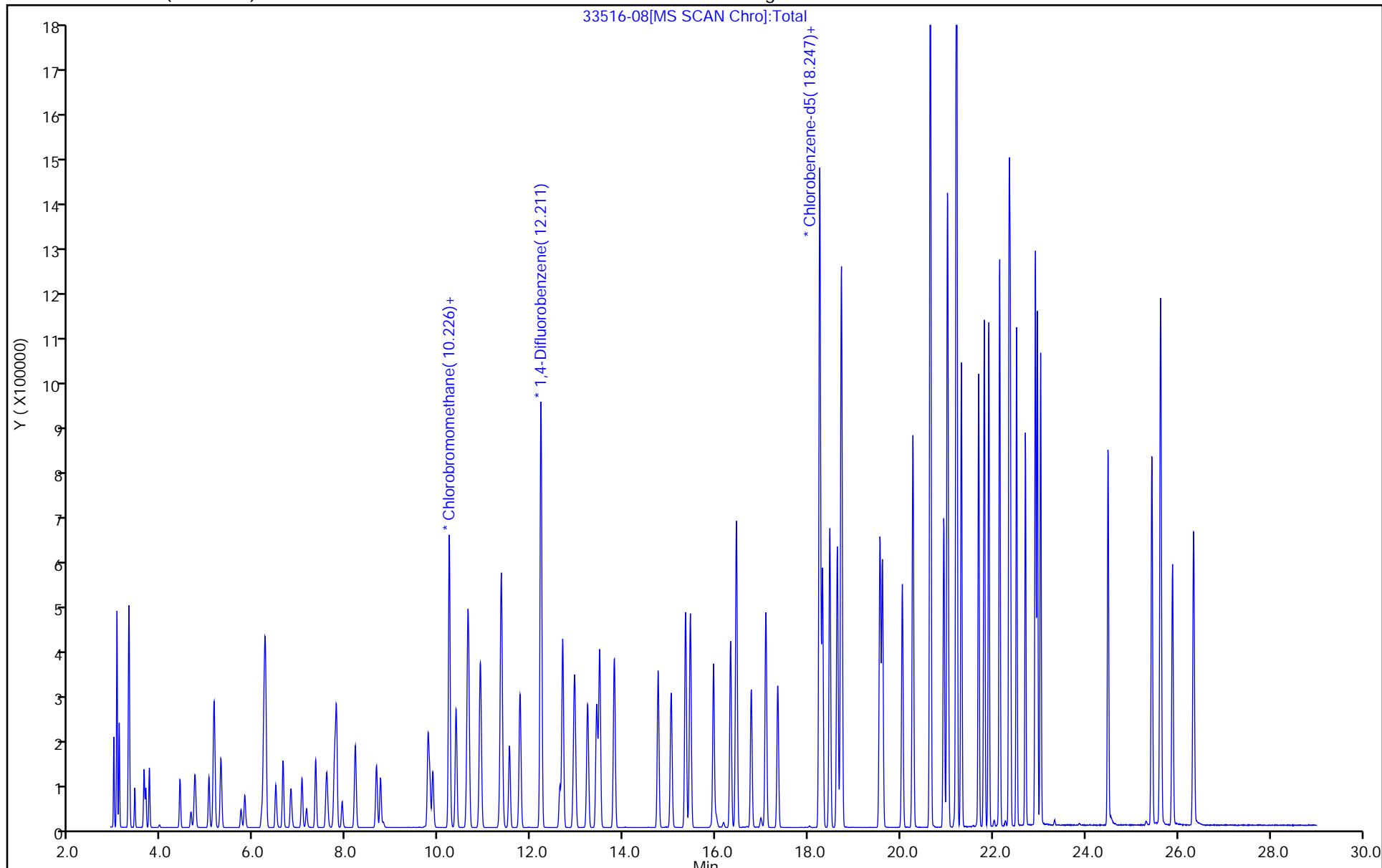
ALS Bottle#: 8

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington

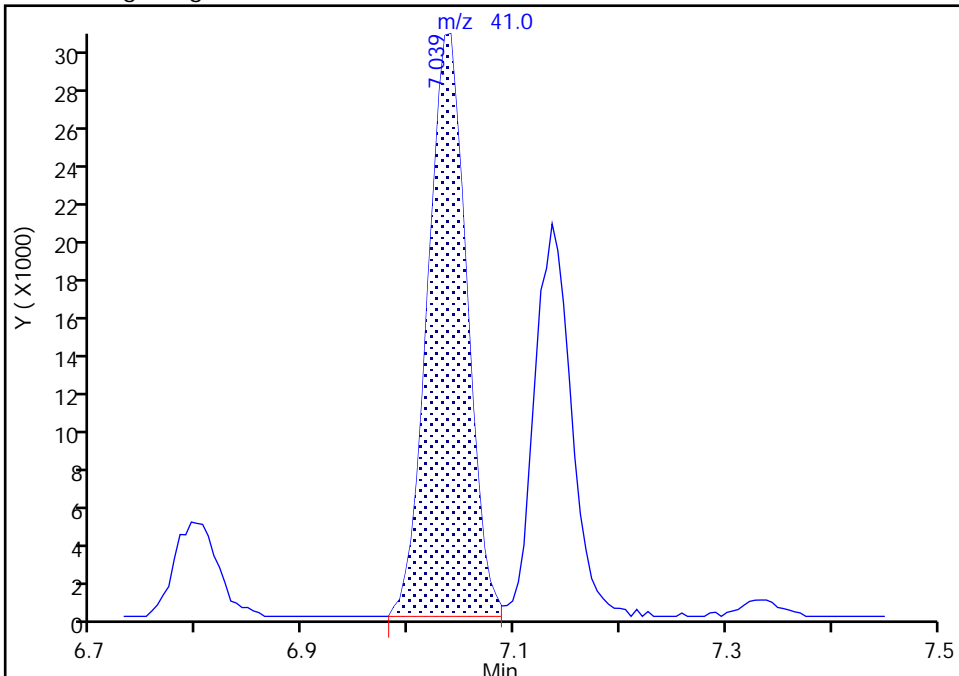
Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D  
Injection Date: 05-Dec-2018 00:25:30 Instrument ID: CHC.i  
Lims ID: icis  
Client ID:  
Operator ID: ert ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

26 Acetonitrile, CAS: 75-05-8

Signal: 1

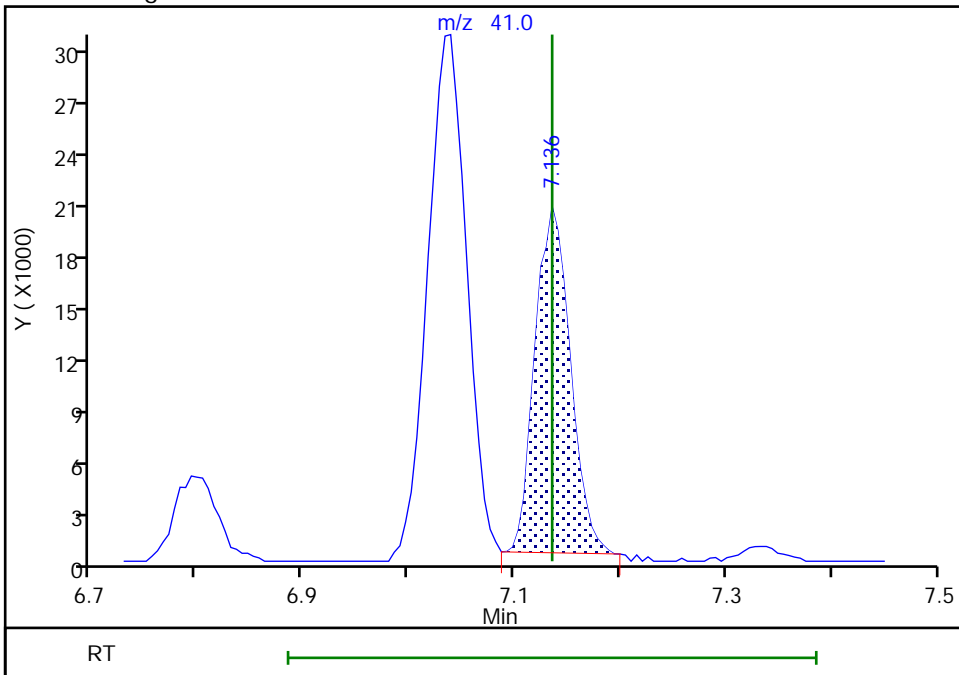
RT: 7.04  
Area: 78710  
Amount: 8.863533  
Amount Units: ppb v/v

Processing Integration Results



RT: 7.14  
Area: 46361  
Amount: 9.731279  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:15:05  
Audit Action: Manually Integrated

Audit Reason: Wrong peak

TestAmerica Burlington

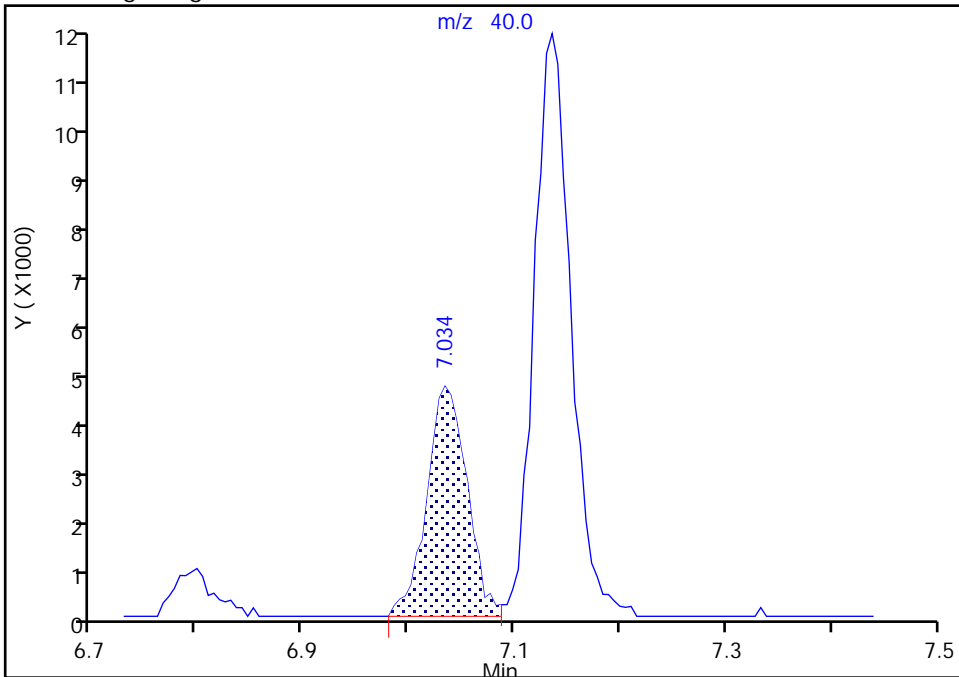
Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D  
Injection Date: 05-Dec-2018 00:25:30 Instrument ID: CHC.i  
Lims ID: icis  
Client ID:  
Operator ID: ert ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

26 Acetonitrile, CAS: 75-05-8

Signal: 2

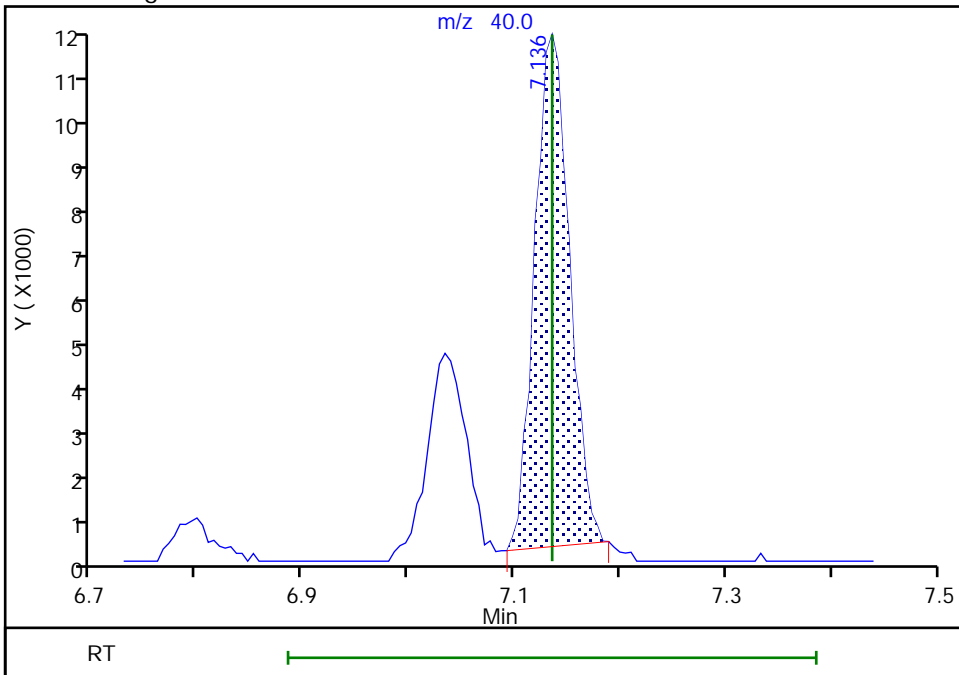
RT: 7.03  
Area: 11883  
Amount: 8.863533  
Amount Units: ppb v/v

Processing Integration Results



RT: 7.14  
Area: 25283  
Amount: 9.731279  
Amount Units: ppb v/v

Manual Integration Results



TestAmerica Burlington

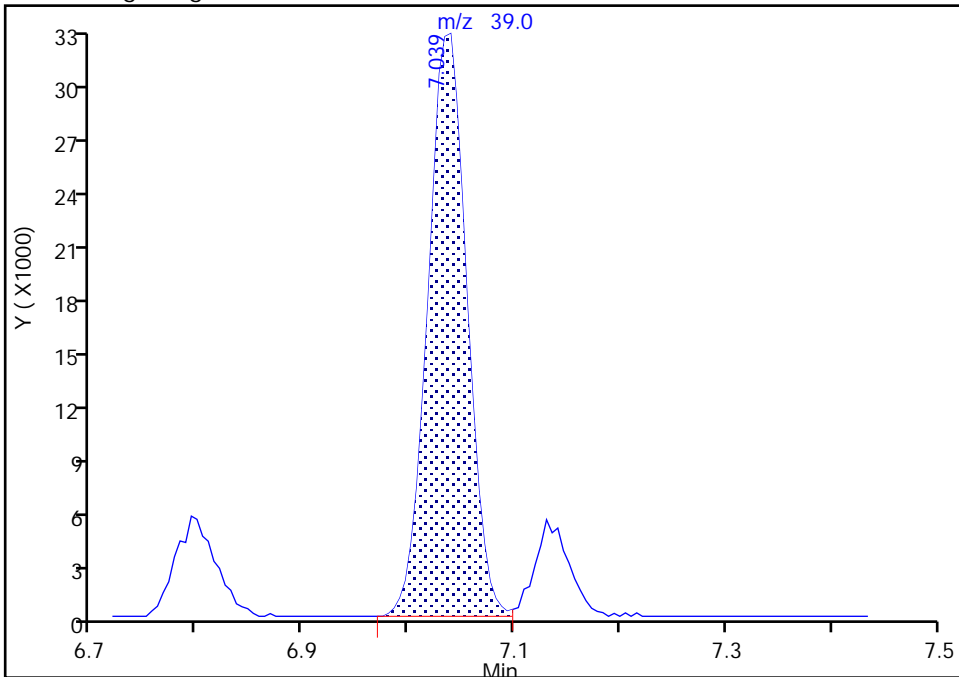
Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-08.D  
Injection Date: 05-Dec-2018 00:25:30 Instrument ID: CHC.i  
Lims ID: icis  
Client ID:  
Operator ID: ert ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

26 Acetonitrile, CAS: 75-05-8

Signal: 3

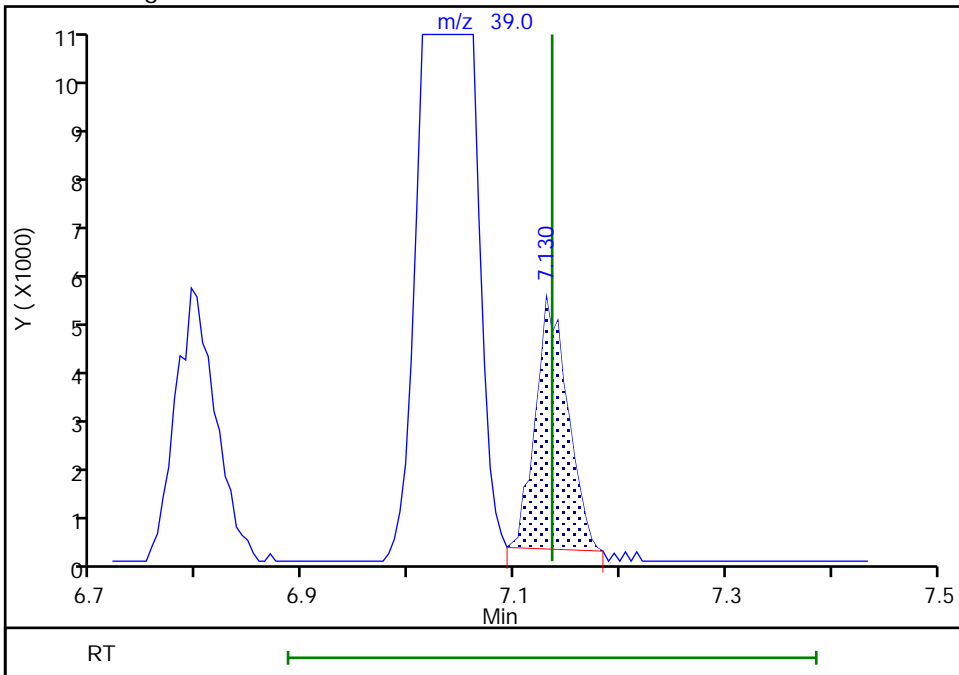
RT: 7.04  
Area: 84685  
Amount: 8.863533  
Amount Units: ppb v/v

Processing Integration Results



RT: 7.13  
Area: 10953  
Amount: 9.731279  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: guazzonig, 05-Dec-2018 10:15:13

Audit Action: Manually Integrated

Audit Reason: Wrong peak

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-10.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 05-Dec-2018 02:11:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-010  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:29 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:38:30

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.957     | 2.962         | -0.005        | 94  | 183661   | 20.0            | 18.6              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.026     | 3.031         | -0.005        | 100 | 975812   | 20.0            | 20.2              |       |
| 3 Chlorodifluoromethane       | 51  | 3.074     | 3.080         | -0.006        | 98  | 459099   | 20.0            | 18.8              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.282     | 3.288         | -0.006        | 95  | 770362   | 20.0            | 20.3              |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 99  | 163554   | 20.0            | 17.9              |       |
| 6 Butane                      | 43  | 3.613     | 3.619         | -0.006        | 93  | 249145   | 20.0            | 18.2              |       |
| 7 Vinyl chloride              | 62  | 3.651     | 3.656         | -0.006        | 100 | 193907   | 20.0            | 18.5              |       |
| 8 Butadiene                   | 54  | 3.731     | 3.731         | 0.000         | 94  | 133309   | 20.0            | 19.1              |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 97  | 188784   | 20.0            | 20.0              |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 98  | 76930    | 20.0            | 19.1              |       |
| 12 2-Methylbutane             | 43  | 4.718     | 4.713         | 0.005         | 84  | 144111   | 20.0            | 18.1              |       |
| 13 Vinyl bromide              | 106 | 5.017     | 5.022         | -0.005        | 97  | 234754   | 20.0            | 20.5              |       |
| 14 Trichlorofluoromethane     | 101 | 5.129     | 5.134         | -0.005        | 100 | 900920   | 20.0            | 20.2              |       |
| 16 Pentane                    | 43  | 5.278     | 5.284         | -0.006        | 95  | 284678   | 20.0            | 17.6              |       |
| 17 Ethanol                    | 45  | 5.711     | 5.716         | -0.005        | 97  | 121206   | 40.0            | 32.3              |       |
| 18 Ethyl ether                | 59  | 5.791     | 5.801         | -0.010        | 96  | 136037   | 20.0            | 19.2              |       |
| 19 Acrolein                   | 56  | 6.154     | 6.159         | -0.005        | 98  | 67540    | 20.0            | 20.6              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218     | 6.223         | -0.005        | 95  | 601805   | 20.0            | 20.7              |       |
| 21 1,1-Dichloroethene         | 96  | 6.244     | 6.250         | -0.006        | 96  | 242947   | 20.0            | 20.6              |       |
| 22 Acetone                    | 43  | 6.463     | 6.468         | -0.005        | 100 | 348523   | 20.0            | 17.8              |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 99  | 638037   | 20.0            | 19.6              |       |
| 24 Isopropyl alcohol          | 45  | 6.794     | 6.794         | 0.000         | 98  | 305384   | 20.0            | 17.7              |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 90  | 228544   | 20.0            | 19.6              |       |
| 26 Acetonitrile               | 41  | 7.130     | 7.136         | -0.006        | 97  | 106720   | 20.0            | 17.5              |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 90  | 231953   | 20.0            | 17.3              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.568     | 7.573         | -0.005        | 95  | 503562   | 20.0            | 19.3              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.744     | 7.749         | -0.005        | 94  | 750747   | 20.0            | 19.3              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.787         | -0.006        | 98  | 337899   | 20.0            | 19.3              |       |
| 32 Acrylonitrile              | 53  | 7.904     | 7.909         | -0.005        | 91  | 120632   | 20.0            | 18.5              |       |
| 33 Hexane                     | 57  | 8.192     | 8.192         | 0.000         | 85  | 276144   | 20.0            | 18.0              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.651     | 8.651          | 0.000         | 99 | 403537    | 20.0            | 17.8              |       |
| 35 Vinyl acetate               | 43  | 8.737     | 8.737          | 0.000         | 99 | 477522    | 20.0            | 17.4              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.767     | 9.767          | 0.000         | 94 | 263775    | 20.0            | 19.5              |       |
| 38 2-Butanone (MEK)            | 72  | 9.799     | 9.804          | -0.005        | 99 | 110295    | 20.0            | 19.4              |       |
| 39 Ethyl acetate               | 88  | 9.868     | 9.873          | -0.005        | 99 | 21953     | 20.0            | 20.2              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |           | 40.0            | 38.8              |       |
| * 40 Chlorobromomethane        | 128 | 10.226    | 10.226         | 0.000         | 78 | 247127    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.226    | 10.231         | -0.005        | 78 | 188156    | 20.0            | 18.1              |       |
| 42 Chloroform                  | 83  | 10.370    | 10.370         | 0.000         | 97 | 668594    | 20.0            | 20.6              |       |
| 43 Cyclohexane                 | 84  | 10.621    | 10.626         | -0.006        | 93 | 340758    | 20.0            | 20.4              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.637    | 10.642         | -0.005        | 94 | 836640    | 20.0            | 20.8              |       |
| 45 Carbon tetrachloride        | 117 | 10.898    | 10.898         | 0.000         | 99 | 940985    | 20.0            | 21.7              |       |
| 47 Benzene                     | 78  | 11.352    | 11.352         | 0.000         | 97 | 791829    | 20.0            | 19.1              |       |
| 46 Isooctane                   | 57  | 11.352    | 11.352         | 0.000         | 94 | 1066847   | 20.0            | 18.2              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99 | 515881    | 20.0            | 19.2              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 82 | 367160    | 20.0            | 17.3              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 94 | 1321482   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.611    | 12.617         | -0.006        | 88 | 123565    | 20.0            | 15.2              |       |
| 53 Trichloroethene             | 95  | 12.681    | 12.681         | 0.000         | 98 | 417376    | 20.0            | 18.3              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 132050587 | 20.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.220    | 13.220         | 0.000         | 76 | 245294    | 20.0            | 15.2              |       |
| 55 Methyl methacrylate         | 69  | 13.412    | 13.417         | -0.005        | 93 | 279467    | 20.0            | 16.7              |       |
| 56 1,4-Dioxane                 | 88  | 13.454    | 13.454         | 0.000         | 89 | 164480    | 20.0            | 16.2              |       |
| 57 Dibromomethane              | 174 | 13.486    | 13.486         | 0.000         | 90 | 476369    | 20.0            | 18.6              |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.801         | -0.005        | 99 | 766328    | 20.0            | 17.7              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 222603455 | 20.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 96 | 508664    | 20.0            | 16.1              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.029    | 15.029         | 0.000         | 91 | 474528    | 20.0            | 13.9              |       |
| 65 Toluene                     | 92  | 15.344    | 15.338         | 0.006         | 93 | 618088    | 20.0            | 18.9              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 80 | 447614    | 20.0            | 13.3              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 97 | 533152    | 20.0            | 16.5              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 96 | 281962    | 20.0            | 17.8              |       |
| 68 Tetrachloroethene           | 166 | 16.443    | 16.443         | 0.000         | 95 | 687003    | 20.0            | 20.8              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 96 | 476488    | 20.0            | 16.1              |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 97 | 861591    | 20.0            | 22.9              |       |
| 72 Ethylene Dibromide          | 107 | 17.340    | 17.334         | 0.006         | 98 | 637056    | 20.0            | 20.2              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 87 | 1188176   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 97 | 894731    | 20.0            | 19.7              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 99 | 1480573   | 20.0            | 19.5              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 77 | 506409    | 20.0            | 16.5              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.717    | 18.717         | 0.000         | 0  | 1118155   | 40.0            | 40.0              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98 | 549528    | 20.0            | 20.1              |       |
| 80 Styrene                     | 104 | 19.603    | 19.603         | 0.000         | 99 | 910973    | 20.0            | 21.5              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 97 | 927546    | 20.0            | 27.2              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |           | 60.0            | 60.0              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 97 | 1820859   | 20.0            | 20.8              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 97 | 732639    | 20.0            | 18.1              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 99 | 2015322   | 20.0            | 19.7              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 92 | 652377    | 20.0            | 18.6              |       |
| 88 4-Ethyltoluene              | 105 | 21.204    | 21.204         | 0.000         | 98 | 1755164   | 20.0            | 20.5              |       |
| 89 2-Chlorotoluene             | 91  | 21.209    | 21.204         | 0.005         | 96 | 1480596   | 20.0            | 20.0              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 97 | 656647    | 20.0            | 17.1              |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.316    | 21.310        | 0.006         | 92 | 1622679  | 20.0            | 21.1              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 88 | 801321   | 20.0            | 22.8              |       |
| 92 tert-Butylbenzene       | 119 | 21.812    | 21.807        | 0.005         | 91 | 1572453  | 20.0            | 21.5              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 1649622  | 20.0            | 21.4              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 2248832  | 20.0            | 21.2              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 2052359  | 20.0            | 22.0              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 98 | 1148123  | 20.0            | 22.0              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.511    | 22.506        | 0.005         | 96 | 1197052  | 20.0            | 22.6              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 1586450  | 20.0            | 21.9              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 97 | 1789576  | 20.0            | 21.0              |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 88 | 764357   | 20.0            | 18.5              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 96 | 1139661  | 20.0            | 22.5              |       |
| 102 Dodecane               | 57  | 24.491    | 24.486        | 0.005         | 93 | 782239   | 20.0            | 19.7              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 95 | 1061588  | 20.0            | 23.2              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 97 | 1041566  | 20.0            | 24.4              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 2105636  | 20.0            | 23.4              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 96 | 1020377  | 20.0            | 24.1              |       |

**Reagents:**

ATTO15CAL6w\_00161

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-10.D

Injection Date: 05-Dec-2018 02:11:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 10

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

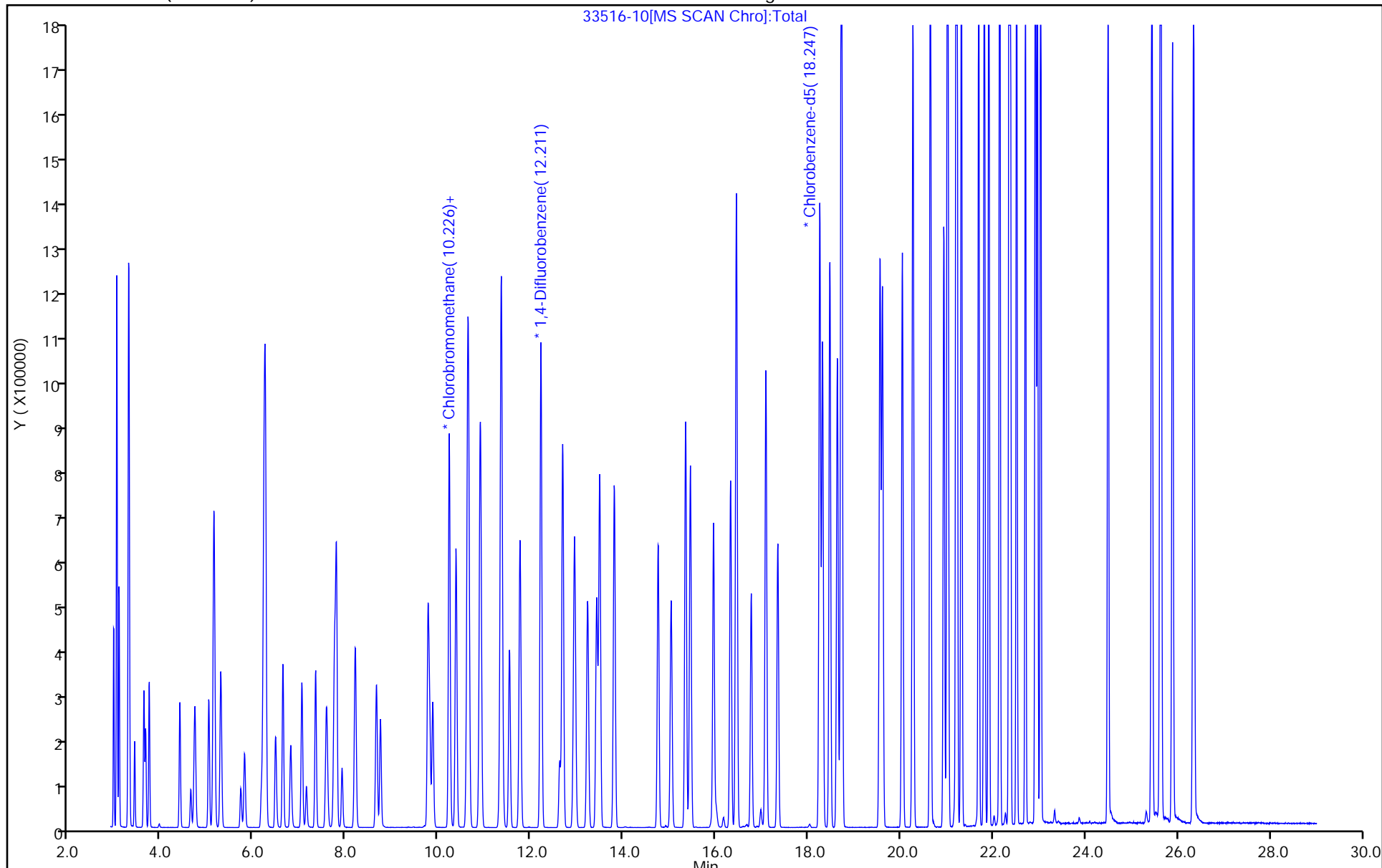
ALS Bottle#: 10

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-11.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 05-Dec-2018 03:05:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-011  
 Misc. Info.: ic  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1

Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:32 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 10:39:03

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.957     | 2.962         | -0.005        | 93  | 338523   | 40.0            | 47.4              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.026     | 3.031         | -0.005        | 99  | 1548930  | 40.0            | 44.2              |       |
| 3 Chlorodifluoromethane       | 51  | 3.074     | 3.080         | -0.006        | 98  | 829410   | 40.0            | 46.9              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.282     | 3.288         | -0.006        | 97  | 1265554  | 40.0            | 46.1              |       |
| 5 Chloromethane               | 50  | 3.410     | 3.416         | -0.006        | 98  | 303685   | 40.0            | 45.8              |       |
| 6 Butane                      | 43  | 3.613     | 3.619         | -0.006        | 93  | 478309   | 40.0            | 48.4              |       |
| 7 Vinyl chloride              | 62  | 3.650     | 3.656         | -0.006        | 100 | 355193   | 40.0            | 46.7              |       |
| 8 Butadiene                   | 54  | 3.725     | 3.731         | -0.006        | 91  | 239908   | 40.0            | 47.4              |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 97  | 297544   | 40.0            | 43.5              |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 97  | 128975   | 40.0            | 44.3              |       |
| 12 2-Methylbutane             | 43  | 4.718     | 4.713         | 0.005         | 83  | 257961   | 40.0            | 44.8              |       |
| 13 Vinyl bromide              | 106 | 5.017     | 5.022         | -0.005        | 97  | 352157   | 40.0            | 42.5              |       |
| 14 Trichlorofluoromethane     | 101 | 5.129     | 5.134         | -0.005        | 95  | 1347843  | 40.0            | 41.7              |       |
| 16 Pentane                    | 43  | 5.278     | 5.284         | -0.006        | 94  | 502063   | 40.0            | 42.9              |       |
| 17 Ethanol                    | 45  | 5.716     | 5.716         | 0.000         | 97  | 251010   | 100.0           | 92.4              |       |
| 18 Ethyl ether                | 59  | 5.790     | 5.801         | -0.011        | 96  | 224061   | 40.0            | 43.6              |       |
| 19 Acrolein                   | 56  | 6.159     | 6.159         | 0.000         | 100 | 96223    | 40.0            | 40.5              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223     | 6.223         | 0.000         | 95  | 884673   | 40.0            | 41.9              |       |
| 21 1,1-Dichloroethene         | 96  | 6.249     | 6.250         | -0.001        | 94  | 363259   | 40.0            | 42.5              |       |
| 22 Acetone                    | 43  | 6.463     | 6.468         | -0.005        | 100 | 637834   | 40.0            | 44.9              |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 99  | 1028723  | 40.0            | 43.6              |       |
| 24 Isopropyl alcohol          | 45  | 6.794     | 6.794         | 0.000         | 98  | 535918   | 40.0            | 42.9              |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 87  | 390281   | 40.0            | 46.3              |       |
| 26 Acetonitrile               | 41  | 7.135     | 7.136         | -0.001        | 96  | 204287   | 40.0            | 46.3              |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 93  | 432121   | 40.0            | 44.4              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.573     | 7.573         | 0.000         | 96  | 862047   | 40.0            | 45.6              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.744     | 7.749         | -0.005        | 94  | 1237573  | 40.0            | 44.0              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.786     | 7.787         | -0.001        | 94  | 602086   | 40.0            | 47.4              |       |
| 32 Acrylonitrile              | 53  | 7.904     | 7.909         | -0.005        | 89  | 220822   | 40.0            | 46.6              |       |
| 33 Hexane                     | 57  | 8.187     | 8.192         | -0.005        | 86  | 491598   | 40.0            | 44.3              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.651     | 8.651          | 0.000         | 99  | 709019    | 40.0            | 43.2              |       |
| 35 Vinyl acetate               | 43  | 8.736     | 8.737          | -0.001        | 99  | 909438    | 40.0            | 45.7              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.766     | 9.767          | -0.001        | 97  | 404741    | 40.0            | 41.4              |       |
| 38 2-Butanone (MEK)            | 72  | 9.798     | 9.804          | -0.006        | 100 | 177285    | 40.0            | 43.0              |       |
| 39 Ethyl acetate               | 88  | 9.868     | 9.873          | -0.005        | 99  | 32414     | 40.0            | 41.1              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 80.0            | 88.8              |       |
| * 40 Chlorobromomethane        | 128 | 10.225    | 10.226         | -0.001        | 92  | 179023    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.225    | 10.231         | -0.006        | 89  | 342749    | 40.0            | 43.4              |       |
| 42 Chloroform                  | 83  | 10.375    | 10.370         | 0.005         | 97  | 1067701   | 40.0            | 45.4              |       |
| 43 Cyclohexane                 | 84  | 10.626    | 10.626         | 0.000         | 93  | 517454    | 40.0            | 40.7              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.642    | 10.642         | 0.000         | 97  | 1253876   | 40.0            | 41.1              |       |
| 45 Carbon tetrachloride        | 117 | 10.898    | 10.898         | 0.000         | 97  | 1389719   | 40.0            | 42.2              |       |
| 47 Benzene                     | 78  | 11.351    | 11.352         | -0.001        | 97  | 1257023   | 40.0            | 39.8              |       |
| 46 Isooctane                   | 57  | 11.351    | 11.352         | -0.001        | 94  | 1844481   | 40.0            | 41.4              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99  | 896698    | 40.0            | 43.9              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 84  | 670147    | 40.0            | 41.5              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 96  | 1005047   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.616    | 12.617         | -0.001        | 90  | 260420    | 40.0            | 42.2              |       |
| 53 Trichloroethene             | 95  | 12.680    | 12.681         | -0.001        | 94  | 739449    | 40.0            | 42.7              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0   | 225061449 | 40.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.219    | 13.220         | -0.001        | 78  | 514142    | 40.0            | 41.9              |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 90  | 543057    | 40.0            | 42.7              |       |
| 56 1,4-Dioxane                 | 88  | 13.454    | 13.454         | 0.000         | 94  | 285135    | 40.0            | 37.0              |       |
| 57 Dibromomethane              | 174 | 13.486    | 13.486         | 0.000         | 95  | 746998    | 40.0            | 38.3              |       |
| 58 Dichlorobromomethane        | 83  | 13.801    | 13.801         | 0.000         | 99  | 1428428   | 40.0            | 43.5              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0   | 368841215 | 40.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.751    | 14.746         | 0.005         | 97  | 1010979   | 40.0            | 42.2              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.034    | 15.029         | 0.005         | 95  | 1120439   | 40.0            | 43.2              |       |
| 65 Toluene                     | 92  | 15.343    | 15.338         | 0.005         | 92  | 1115194   | 40.0            | 42.1              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 83  | 1026410   | 40.0            | 40.2              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 96  | 1039824   | 40.0            | 42.2              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 97  | 566609    | 40.0            | 44.2              |       |
| 68 Tetrachloroethene           | 166 | 16.443    | 16.443         | 0.000         | 93  | 1070634   | 40.0            | 40.1              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 94  | 1022749   | 40.0            | 42.5              |       |
| 71 Chlorodibromomethane        | 129 | 17.083    | 17.078         | 0.005         | 97  | 1372441   | 40.0            | 45.0              |       |
| 72 Ethylene Dibromide          | 107 | 17.340    | 17.334         | 0.006         | 98  | 1091151   | 40.0            | 42.7              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 90  | 963327    | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.311    | 18.306         | 0.005         | 91  | 1452074   | 40.0            | 39.4              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 100 | 2503713   | 40.0            | 40.6              |       |
| 77 n-Nonane                    | 57  | 18.631    | 18.626         | 0.005         | 80  | 977867    | 40.0            | 39.3              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.722    | 18.717         | 0.005         | 0   | 1733725   | 80.0            | 76.5              |       |
| 79 o-Xylene                    | 106 | 19.554    | 19.549         | 0.005         | 97  | 870502    | 40.0            | 39.2              |       |
| 80 Styrene                     | 104 | 19.608    | 19.603         | 0.005         | 98  | 1457895   | 40.0            | 42.5              |       |
| 81 Bromoform                   | 173 | 20.040    | 20.035         | 0.005         | 95  | 1306364   | 40.0            | 47.2              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 120.0           | 115.7             |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 97  | 2895157   | 40.0            | 40.9              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.937    | 20.931         | 0.006         | 98  | 1358266   | 40.0            | 41.3              |       |
| 85 N-Propylbenzene             | 91  | 21.011    | 21.006         | 0.005         | 97  | 3349697   | 40.0            | 40.4              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.027    | 21.022         | 0.005         | 96  | 1164806   | 40.0            | 41.0              |       |
| 88 4-Ethyltoluene              | 105 | 21.203    | 21.204         | -0.001        | 98  | 2648660   | 40.0            | 38.2              |       |
| 89 2-Chlorotoluene             | 91  | 21.209    | 21.204         | 0.005         | 93  | 2340683   | 40.0            | 38.9              |       |
| 87 n-Decane                    | 57  | 21.219    | 21.214         | 0.005         | 97  | 1204762   | 40.0            | 38.7              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.315    | 21.310        | 0.005         | 90 | 2556603  | 40.0            | 40.9              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.689    | 21.689        | 0.000         | 84 | 1209673  | 40.0            | 42.5              |       |
| 92 tert-Butylbenzene       | 119 | 21.812    | 21.807        | 0.005         | 89 | 2334361  | 40.0            | 39.3              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 2531358  | 40.0            | 40.4              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 3506044  | 40.0            | 40.7              |       |
| 95 4-Isopropyltoluene      | 119 | 22.351    | 22.346        | 0.005         | 96 | 2940752  | 40.0            | 38.9              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.378    | 22.372        | 0.006         | 98 | 1592079  | 40.0            | 37.6              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.511    | 22.506        | 0.005         | 92 | 1674467  | 40.0            | 39.0              |       |
| 98 Benzyl chloride         | 91  | 22.703    | 22.698        | 0.005         | 97 | 2529649  | 40.0            | 43.0              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 97 | 2811172  | 40.0            | 40.7              |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 90 | 1422378  | 40.0            | 42.5              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.034    | 23.029        | 0.005         | 93 | 1598700  | 40.0            | 38.9              |       |
| 102 Dodecane               | 57  | 24.491    | 24.486        | 0.005         | 92 | 1494633  | 40.0            | 46.3              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.441    | 25.436        | 0.005         | 94 | 1445145  | 40.0            | 39.0              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 96 | 1308418  | 40.0            | 37.7              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 3002555  | 40.0            | 41.1              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 96 | 1347310  | 40.0            | 39.2              |       |

**Reagents:**

ATTO15CAL7w\_00080

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-11.D

Injection Date: 05-Dec-2018 03:05:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 11

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

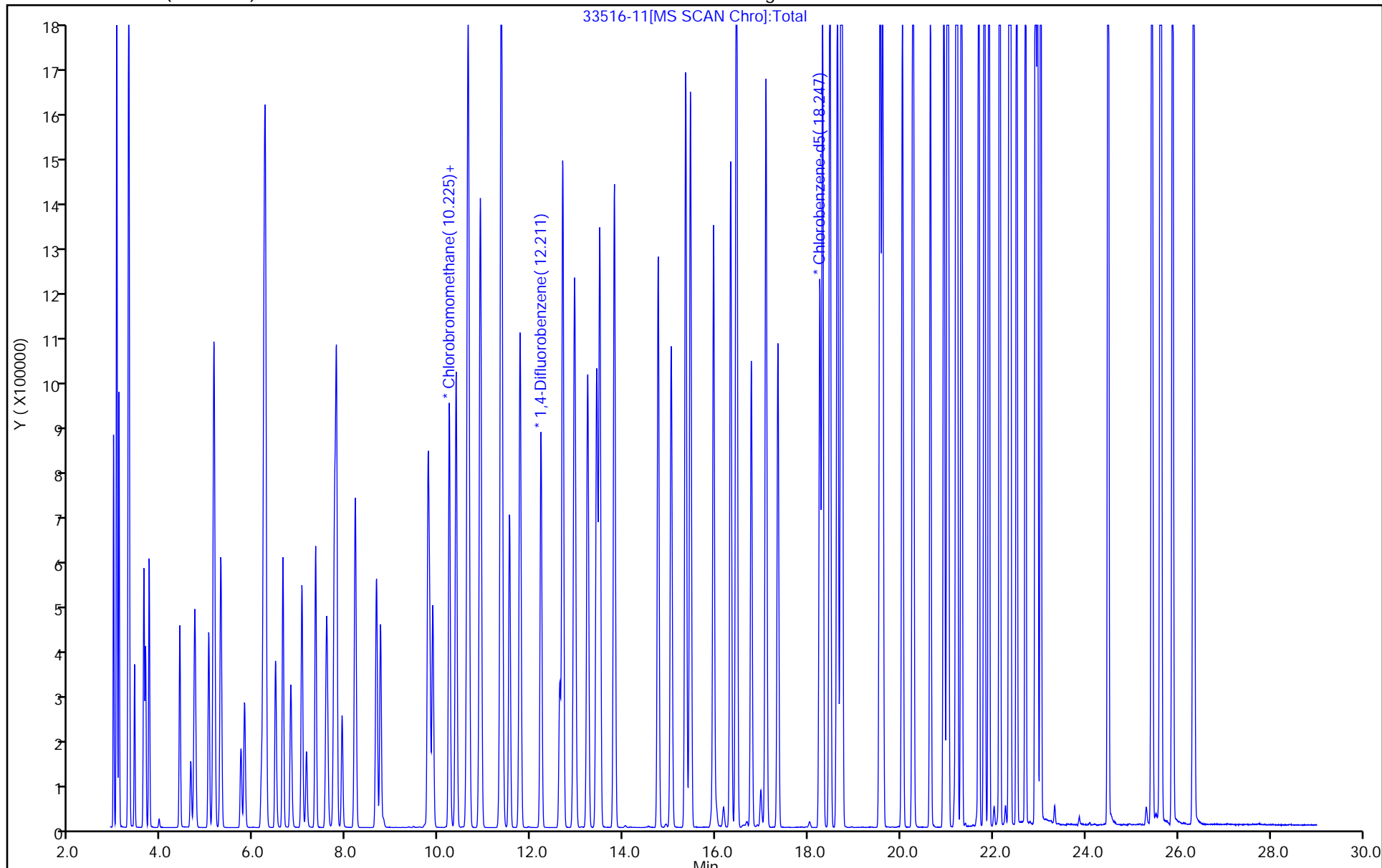
ALS Bottle#: 11

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 05-Dec-2018 09:17:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-018  
 Misc. Info.: viblk  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:38:35 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 10:13:44

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.957     | 2.962         | -0.005        | 93  | 135773   | 15.0            | 13.2              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.026     | 3.031         | -0.005        | 100 | 742431   | 15.0            | 14.7              |       |
| 3 Chlorodifluoromethane       | 51  | 3.074     | 3.080         | -0.006        | 98  | 353414   | 15.0            | 13.9              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.282     | 3.288         | -0.006        | 91  | 580527   | 15.0            | 14.7              |       |
| 5 Chloromethane               | 50  | 3.410     | 3.416         | -0.006        | 99  | 135157   | 15.0            | 14.2              |       |
| 6 Butane                      | 43  | 3.613     | 3.619         | -0.006        | 93  | 194189   | 15.0            | 13.7              |       |
| 7 Vinyl chloride              | 62  | 3.651     | 3.656         | -0.005        | 100 | 155251   | 15.0            | 14.2              |       |
| 8 Butadiene                   | 54  | 3.725     | 3.731         | -0.006        | 96  | 103014   | 15.0            | 14.2              |       |
| 10 Bromomethane               | 94  | 4.392     | 4.392         | 0.000         | 97  | 148131   | 15.0            | 15.1              |       |
| 11 Chloroethane               | 64  | 4.627     | 4.627         | 0.000         | 97  | 61945    | 15.0            | 14.8              |       |
| 12 2-Methylbutane             | 43  | 4.718     | 4.713         | 0.005         | 83  | 117676   | 15.0            | 14.2              |       |
| 13 Vinyl bromide              | 106 | 5.022     | 5.022         | 0.000         | 98  | 187028   | 15.0            | 15.7              |       |
| 14 Trichlorofluoromethane     | 101 | 5.129     | 5.134         | -0.005        | 100 | 701445   | 15.0            | 15.1              |       |
| 16 Pentane                    | 43  | 5.278     | 5.284         | -0.006        | 95  | 232201   | 15.0            | 13.8              |       |
| 17 Ethanol                    | 45  | 5.705     | 5.716         | -0.011        | 97  | 96408    | 30.0            | 24.7              |       |
| 18 Ethyl ether                | 59  | 5.796     | 5.801         | -0.005        | 95  | 108406   | 15.0            | 14.7              |       |
| 19 Acrolein                   | 56  | 6.154     | 6.159         | -0.005        | 99  | 52251    | 15.0            | 15.3              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.218     | 6.223         | -0.005        | 96  | 467170   | 15.0            | 15.4              |       |
| 21 1,1-Dichloroethene         | 96  | 6.250     | 6.250         | 0.000         | 97  | 186607   | 15.0            | 15.2              |       |
| 22 Acetone                    | 43  | 6.463     | 6.468         | -0.005        | 100 | 269071   | 15.0            | 13.2              |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.629         | -0.006        | 99  | 492645   | 15.0            | 14.5              |       |
| 24 Isopropyl alcohol          | 45  | 6.789     | 6.794         | -0.005        | 98  | 243497   | 15.0            | 13.5              |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 89  | 185045   | 15.0            | 15.3              |       |
| 26 Acetonitrile               | 41  | 7.130     | 7.136         | -0.006        | 96  | 85917    | 15.0            | 13.5              |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 90  | 189492   | 15.0            | 13.6              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.568     | 7.573         | -0.005        | 95  | 403367   | 15.0            | 14.8              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.744     | 7.749         | -0.005        | 94  | 604271   | 15.0            | 15.0              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.787         | -0.006        | 97  | 275012   | 15.0            | 15.1              |       |
| 32 Acrylonitrile              | 53  | 7.909     | 7.909         | 0.000         | 92  | 99257    | 15.0            | 14.6              |       |
| 33 Hexane                     | 57  | 8.192     | 8.192         | 0.000         | 87  | 230443   | 15.0            | 14.4              |       |



| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.646     | 8.651          | -0.005        | 99 | 333661    | 15.0            | 14.1              |       |
| 35 Vinyl acetate               | 43  | 8.737     | 8.737          | 0.000         | 99 | 389315    | 15.0            | 13.6              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.767     | 9.767          | 0.000         | 93 | 213392    | 15.0            | 15.2              |       |
| 38 2-Butanone (MEK)            | 72  | 9.799     | 9.804          | -0.005        | 99 | 89425     | 15.0            | 15.1              |       |
| 39 Ethyl acetate               | 88  | 9.863     | 9.873          | -0.010        | 99 | 16754     | 15.0            | 14.8              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |           | 30.0            | 30.2              |       |
| * 40 Chlorobromomethane        | 128 | 10.226    | 10.226         | 0.000         | 78 | 257391    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.226    | 10.231         | -0.005        | 80 | 155299    | 15.0            | 13.0              |       |
| 42 Chloroform                  | 83  | 10.375    | 10.370         | 0.005         | 97 | 530415    | 15.0            | 15.7              |       |
| 43 Cyclohexane                 | 84  | 10.626    | 10.626         | 0.000         | 94 | 277247    | 15.0            | 14.4              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.637    | 10.642         | -0.005        | 95 | 653795    | 15.0            | 14.2              |       |
| 45 Carbon tetrachloride        | 117 | 10.893    | 10.898         | -0.005        | 99 | 730608    | 15.0            | 14.7              |       |
| 47 Benzene                     | 78  | 11.346    | 11.352         | -0.006        | 97 | 666007    | 15.0            | 13.9              |       |
| 46 Isooctane                   | 57  | 11.346    | 11.352         | -0.006        | 95 | 913248    | 15.0            | 13.5              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99 | 420858    | 15.0            | 13.6              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 83 | 316237    | 15.0            | 12.9              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 94 | 1520634   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.617    | 12.617         | 0.000         | 89 | 127843    | 15.0            | 13.7              |       |
| 53 Trichloroethene             | 95  | 12.681    | 12.681         | 0.000         | 97 | 403455    | 15.0            | 15.4              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 124034175 | 15.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.220    | 13.220         | 0.000         | 81 | 264609    | 15.0            | 14.3              |       |
| 55 Methyl methacrylate         | 69  | 13.412    | 13.417         | -0.005        | 94 | 281284    | 15.0            | 14.6              |       |
| 56 1,4-Dioxane                 | 88  | 13.449    | 13.454         | -0.005        | 90 | 168068    | 15.0            | 14.4              |       |
| 57 Dibromomethane              | 174 | 13.487    | 13.486         | 0.000         | 91 | 444345    | 15.0            | 15.1              |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.801         | -0.005        | 98 | 727333    | 15.0            | 14.6              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 205790198 | 15.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 96 | 527316    | 15.0            | 14.5              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.029    | 15.029         | 0.000         | 93 | 519855    | 15.0            | 13.3              |       |
| 65 Toluene                     | 92  | 15.344    | 15.338         | 0.006         | 93 | 640559    | 15.0            | 14.7              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 81 | 507202    | 15.0            | 13.1              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 98 | 533981    | 15.0            | 14.3              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 98 | 301118    | 15.0            | 14.3              |       |
| 68 Tetrachloroethene           | 166 | 16.443    | 16.443         | 0.000         | 96 | 666530    | 15.0            | 15.2              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 97 | 516103    | 15.0            | 13.0              |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 97 | 819337    | 15.0            | 16.3              |       |
| 72 Ethylene Dibromide          | 107 | 17.334    | 17.334         | 0.000         | 98 | 637924    | 15.0            | 15.2              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 87 | 1584693   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 94 | 909948    | 15.0            | 15.0              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 99 | 1508352   | 15.0            | 14.9              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 79 | 553372    | 15.0            | 13.5              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.717    | 18.717         | 0.000         | 0  | 1119257   | 30.0            | 30.0              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98 | 545065    | 15.0            | 14.9              |       |
| 80 Styrene                     | 104 | 19.603    | 19.603         | 0.000         | 99 | 897534    | 15.0            | 15.9              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 97 | 863237    | 15.0            | 19.0              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |           | 45.0            | 44.9              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 96 | 1766797   | 15.0            | 15.2              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 98 | 759807    | 15.0            | 14.1              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 99 | 2004570   | 15.0            | 14.7              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 94 | 653603    | 15.0            | 14.0              |       |
| 88 4-Ethyltoluene              | 105 | 21.204    | 21.204         | 0.000         | 98 | 1699378   | 15.0            | 14.9              |       |
| 89 2-Chlorotoluene             | 91  | 21.204    | 21.204         | 0.000         | 95 | 1417247   | 15.0            | 14.3              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 96 | 686058    | 15.0            | 13.4              |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 92 | 1553601  | 15.0            | 15.1              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.684    | 21.689        | -0.005        | 88 | 764541   | 15.0            | 16.3              |       |
| 92 tert-Butylbenzene       | 119 | 21.812    | 21.807        | 0.005         | 92 | 1483372  | 15.0            | 15.2              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 97 | 1549236  | 15.0            | 15.0              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 2148550  | 15.0            | 15.2              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 1945934  | 15.0            | 15.6              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 98 | 1087563  | 15.0            | 15.6              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.511    | 22.506        | 0.005         | 95 | 1118219  | 15.0            | 15.8              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 1504984  | 15.0            | 15.6              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 98 | 1717680  | 15.0            | 15.1              |       |
| 99 Undecane                | 57  | 22.960    | 22.959        | 0.001         | 89 | 784842   | 15.0            | 14.2              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 96 | 1064998  | 15.0            | 15.7              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 94 | 741258   | 15.0            | 14.0              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 94 | 933858   | 15.0            | 15.3              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 95 | 886193   | 15.0            | 15.5              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 1791546  | 15.0            | 14.9              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.343        | 0.000         | 96 | 862529   | 15.0            | 15.3              |       |

**Reagents:**

ATTO15CAL6w\_00161

Amount Added: 150.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D

Injection Date: 05-Dec-2018 09:17:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: ic

Worklist Smp#: 18

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

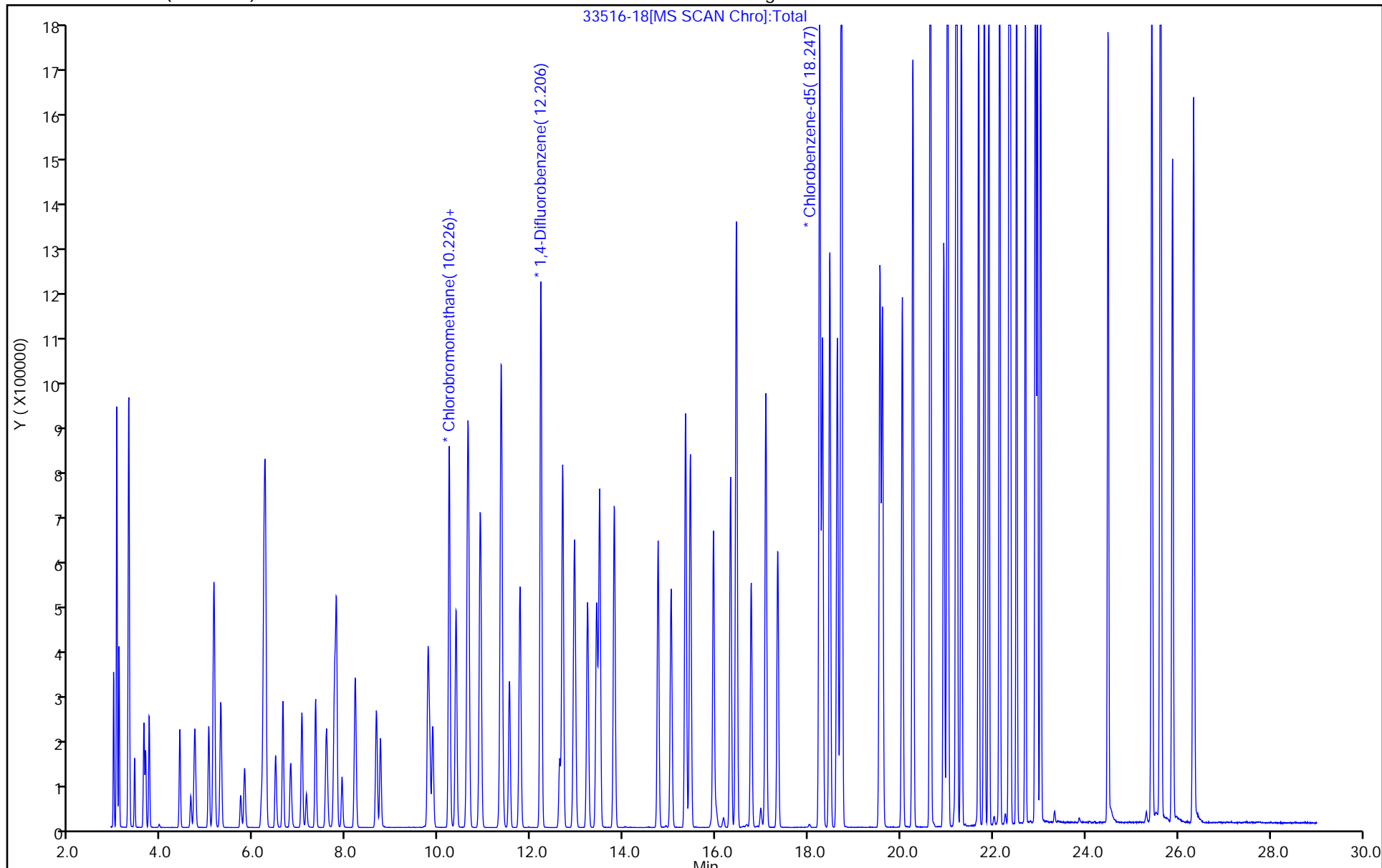
ALS Bottle#: 18

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-46353-1 Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22 Calibration End Date: 11/28/2018 02:15 Calibration ID: 40668

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID:    |
|---------|-------------------|-----------------|
| Level 1 | IC 200-137447/4   | 200-33385-004.D |
| Level 2 | IC 200-137447/5   | 200-33385-005.D |
| Level 3 | IC 200-137447/6   | 200-33385-006.D |
| Level 4 | IC 200-137447/7   | 200-33385-007.D |
| Level 5 | ICIS 200-137447/8 | 200-33385-008.D |
| Level 6 | IC 200-137447/9   | 200-33385-009.D |
| Level 7 | IC 200-137447/10  | 200-33385-010.D |
| Level 8 | IC 200-137447/11  | 200-33385-011.D |

| ANALYTE                       | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|-------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|                               | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |                       |   |                           |
|                               | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |                       |   |                           |
| Propylene                     | ++++<br>0.6329   | ++++<br>0.6568   | ++++<br>0.6026   | 0.7527 | 0.8066 | Ave        |             | 0.6903 |    |   | 12.4    |      | 30.0 |          |                       |   |                           |
| Dichlorodifluoromethane       | ++++<br>3.3389   | ++++<br>3.4205   | 4.4909<br>2.9962 | 3.9455 | 4.1925 | Ave        |             | 3.7308 |    |   | 15.3    |      | 30.0 |          |                       |   |                           |
| Chlorodifluoromethane         | ++++<br>1.3948   | ++++<br>1.4821   | 1.8958<br>1.3904 | 1.6246 | 1.7412 | Ave        |             | 1.5882 |    |   | 12.8    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichlorotetrafluoroethane | ++++<br>2.4871   | 2.9012<br>2.5770 | 3.3694<br>2.3598 | 2.8738 | 3.0853 | Ave        |             | 2.8077 |    |   | 12.7    |      | 30.0 |          |                       |   |                           |
| Chloromethane                 | ++++<br>0.6326   | ++++<br>0.6828   | 0.8285<br>0.6510 | 0.7589 | 0.8019 | Ave        |             | 0.7259 |    |   | 11.3    |      | 30.0 |          |                       |   |                           |
| n-Butane                      | ++++<br>0.8588   | ++++<br>0.8980   | 1.1689<br>0.8391 | 1.0189 | 1.0795 | Ave        |             | 0.9772 |    |   | 13.6    |      | 30.0 |          |                       |   |                           |
| Vinyl chloride                | 1.0834<br>0.7516 | 0.8332<br>0.7865 | 0.9709<br>0.7547 | 0.8664 | 0.9438 | Ave        |             | 0.8738 |    |   | 13.5    |      | 30.0 |          |                       |   |                           |
| 1,3-Butadiene                 | 0.5534<br>0.4779 | 0.5452<br>0.5073 | 0.6551<br>0.4855 | 0.5389 | 0.5859 | Ave        |             | 0.5437 |    |   | 10.6    |      | 30.0 |          |                       |   |                           |
| Bromomethane                  | ++++<br>0.9191   | 0.9633<br>0.9673 | 1.1554<br>0.9282 | 1.0050 | 1.1238 | Ave        |             | 1.0089 |    |   | 9.3     |      | 30.0 |          |                       |   |                           |
| Chloroethane                  | ++++<br>0.2981   | ++++<br>0.3106   | 0.4091<br>0.3048 | 0.3276 | 0.3674 | Ave        |             | 0.3363 |    |   | 12.9    |      | 30.0 |          |                       |   |                           |
| Isopentane                    | ++++<br>0.5721   | 0.6610<br>0.5826 | 0.7572<br>0.5559 | 0.6792 | 0.7074 | Ave        |             | 0.6451 |    |   | 11.8    |      | 30.0 |          |                       |   |                           |
| Bromoethene (Vinyl Bromide)   | ++++<br>0.9050   | 0.9392<br>0.9502 | 1.1868<br>0.9196 | 0.9778 | 1.1037 | Ave        |             | 0.9975 |    |   | 10.7    |      | 30.0 |          |                       |   |                           |
| Trichlorofluoromethane        | ++++<br>2.6569   | 2.8766<br>2.7100 | 3.5631<br>2.5398 | 3.0318 | 3.2599 | Ave        |             | 2.9483 |    |   | 12.4    |      | 30.0 |          |                       |   |                           |
| n-Pentane                     | ++++<br>0.8532   | ++++<br>0.8736   | 1.2453<br>0.8464 | 0.9943 | 1.0457 | Ave        |             | 0.9764 |    |   | 15.9    |      | 30.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                          | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|----------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                                  | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                                  | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| Ethanol                          | ++++<br>0.1756   | ++++<br>0.1636   | 0.2556<br>0.1529 | 0.2128 | 0.2528 | Ave        |             | 0.2022 |    |   | 22.3    |      | 30.0 |          |            |   |                |
| Ethyl ether                      | 0.3879<br>0.3273 | 0.3052<br>0.2746 | 0.4192<br>0.2839 | 0.3618 | 0.3802 | Ave        |             | 0.3425 |    |   | 15.4    |      | 30.0 |          |            |   |                |
| Acrolein                         | ++++<br>0.1020   | ++++<br>0.1089   | ++++<br>0.1213   | 0.1663 | 0.1572 | Ave        |             | 0.1311 |    |   | 22.1    |      | 30.0 |          |            |   |                |
| 1,1,2-Trichlorotrifluoroethane   | ++++<br>1.8786   | 2.0349<br>1.9051 | 2.5595<br>1.8694 | 2.0356 | 2.2541 | Ave        |             | 2.0767 |    |   | 12.1    |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethene               | 0.9994<br>0.7970 | 1.0051<br>0.8552 | 0.9932<br>0.8390 | 0.8598 | 0.9645 | Ave        |             | 0.9142 |    |   | 9.3     |      | 30.0 |          |            |   |                |
| Acetone                          | ++++<br>0.7752   | ++++<br>0.6396   | ++++<br>0.6587   | 0.9232 | 0.8960 | Ave        |             | 0.7785 |    |   | 16.8    |      | 30.0 |          |            |   |                |
| Carbon disulfide                 | ++++<br>2.1258   | ++++<br>2.1509   | 2.6421<br>2.1358 | 2.4410 | 2.6131 | Ave        |             | 2.3514 |    |   | 10.4    |      | 30.0 |          |            |   |                |
| Isopropyl alcohol                | ++++<br>0.8004   | ++++<br>0.8272   | ++++<br>0.7834   | 0.8973 | 0.9931 | Ave        |             | 0.8603 |    |   | 10.0    |      | 30.0 |          |            |   |                |
| 3-Chloropropene                  | ++++<br>0.6406   | 0.6793<br>0.6435 | 0.8826<br>0.6157 | 0.6966 | 0.6024 | Ave        |             | 0.6801 |    |   | 14.0    |      | 30.0 |          |            |   |                |
| Acetonitrile                     | ++++<br>0.2867   | ++++<br>0.2274   | ++++<br>0.2497   | 0.3291 | 0.3306 | Ave        |             | 0.2847 |    |   | 16.3    |      | 30.0 |          |            |   |                |
| Methylene Chloride               | ++++<br>0.7469   | ++++<br>0.7381   | 1.0060<br>0.7271 | 0.8292 | 0.9027 | Ave        |             | 0.8250 |    |   | 13.5    |      | 30.0 |          |            |   |                |
| tert-Butyl alcohol               | ++++<br>1.2182   | ++++<br>1.2894   | ++++<br>1.2365   | 1.3316 | 1.5007 | Ave        |             | 1.3153 |    |   | 8.6     |      | 30.0 |          |            |   |                |
| Methyl tert-butyl ether          | ++++<br>1.7148   | 1.6941<br>1.4867 | 2.2435<br>1.5198 | 1.8543 | 1.9269 | Ave        |             | 1.7772 |    |   | 14.7    |      | 30.0 |          |            |   |                |
| trans-1,2-Dichloroethene         | ++++<br>1.0001   | 1.1062<br>1.0014 | 1.3753<br>0.9872 | 1.0917 | 1.1912 | Ave        |             | 1.1076 |    |   | 12.6    |      | 30.0 |          |            |   |                |
| Acrylonitrile                    | ++++<br>0.2987   | ++++<br>0.2439   | 0.3781<br>0.2802 | 0.3247 | 0.3389 | Ave        |             | 0.3108 |    |   | 15.1    |      | 30.0 |          |            |   |                |
| n-Hexane                         | ++++<br>0.8047   | 0.8683<br>0.8128 | 1.0435<br>0.8116 | 0.8674 | 0.9716 | Ave        |             | 0.8829 |    |   | 10.4    |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethane               | 1.8288<br>1.2653 | 1.3210<br>1.2484 | 1.6382<br>1.2562 | 1.3623 | 1.5147 | Ave        |             | 1.4294 |    |   | 14.9    |      | 30.0 |          |            |   |                |
| Vinyl acetate                    | ++++<br>1.0877   | ++++<br>0.8747   | ++++<br>0.9712   | 1.2075 | 1.2650 | Ave        |             | 1.0812 |    |   | 15.0    |      | 30.0 |          |            |   |                |
| cis-1,2-Dichloroethene           | 0.7359<br>0.8260 | 0.8150<br>0.8352 | 1.0099<br>0.8502 | 0.8720 | 0.9834 | Ave        |             | 0.8660 |    |   | 10.4    |      | 30.0 |          |            |   |                |
| Methyl Ethyl Ketone (2-Butanone) | ++++<br>0.2567   | ++++<br>0.2334   | 0.3758<br>0.2418 | 0.2811 | 0.2874 | Ave        |             | 0.2794 |    |   | 18.5    |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                                       | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|---|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|   | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |                       |   |                           |
|   | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |                       |   |                           |
| Ethyl acetate                                 | ++++<br>0.0403   | ++++<br>0.0352   | ++++<br>0.0365   | 0.0437 | 0.0435 | Ave        |             | 0.0398 |    |   | 9.8     |      | 30.0 |          |                       |   |                           |
| Tetrahydrofuran                               | ++++<br>0.1067   | ++++<br>0.0888   | ++++<br>0.0918   | 0.1296 | 0.1535 | Ave        |             | 0.1141 |    |   | 23.9    |      | 30.0 |          |                       |   |                           |
| Chloroform                                    | ++++<br>1.9314   | 1.9917<br>1.9092 | 2.5297<br>1.9140 | 2.0466 | 2.2991 | Ave        |             | 2.0888 |    |   | 11.4    |      | 30.0 |          |                       |   |                           |
| Cyclohexane                                   | ++++<br>0.2003   | 0.2327<br>0.1935 | 0.2603<br>0.1955 | 0.2238 | 0.3006 | Ave        |             | 0.2295 |    |   | 17.2    |      | 30.0 |          |                       |   |                           |
| 1,1,1-Trichloroethane                         | ++++<br>0.4988   | 0.5078<br>0.4686 | 0.6359<br>0.4757 | 0.5543 | 0.7483 | Ave        |             | 0.5556 |    |   | 18.4    |      | 30.0 |          |                       |   |                           |
| Carbon tetrachloride                          | 0.4806<br>0.5650 | 0.5059<br>0.5374 | 0.6669<br>0.5424 | 0.6211 | 0.8305 | Ave        |             | 0.5937 |    |   | 19.0    |      | 30.0 |          |                       |   |                           |
| 2,2,4-Trimethylpentane                        | ++++<br>0.6794   | 0.7057<br>0.6381 | 0.8618<br>0.6427 | 0.7716 | 1.0153 | Ave        |             | 0.7593 |    |   | 18.1    |      | 30.0 |          |                       |   |                           |
| Benzene                                       | ++++<br>0.4835   | 0.4863<br>0.4265 | 0.6573<br>0.4735 | 0.4999 | 0.7004 | Ave        |             | 0.5325 |    |   | 19.4    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichloroethane                            | ++++<br>0.2789   | 0.2813<br>0.2453 | 0.3757<br>0.2649 | 0.2997 | 0.4101 | Ave        |             | 0.3080 |    |   | 19.9    |      | 30.0 |          |                       |   |                           |
| n-Heptane                                     | ++++<br>0.2449   | 0.2474<br>0.2303 | 0.3200<br>0.2289 | 0.2831 | 0.3634 | Ave        |             | 0.2740 |    |   | 18.7    |      | 30.0 |          |                       |   |                           |
| n-Butanol                                     | ++++<br>0.0800   | ++++<br>0.0814   | ++++<br>0.0832   | 0.0857 | 0.1201 | Ave        |             | 0.0901 |    |   | 18.8    |      | 30.0 |          |                       |   |                           |
| Trichloroethene                               | 0.4574<br>0.3060 | 0.3105<br>0.3029 | 0.3480<br>0.3059 | 0.3198 | 0.4372 | Ave        |             | 0.3485 |    |   | 18.0    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichloropropane                           | ++++<br>0.1752   | 0.1675<br>0.1481 | 0.2276<br>0.1669 | 0.1813 | 0.2474 | Ave        |             | 0.1877 |    |   | 19.2    |      | 30.0 |          |                       |   |                           |
| Methyl methacrylate                           | ++++<br>0.1487   | ++++<br>0.1311   | ++++<br>0.1407   | 0.1525 | 0.1596 | Ave        |             | 0.1550 |    |   | 14.9    |      | 30.0 |          |                       |   |                           |
| Dibromomethane                                | 0.3478<br>0.3319 | 0.2791<br>0.2799 | 0.3143<br>0.3117 | 0.2892 | 0.4152 | Ave        |             | 0.3211 |    |   | 14.1    |      | 30.0 |          |                       |   |                           |
| 1,4-Dioxane                                   | ++++<br>0.0868   | ++++<br>0.0857   | ++++<br>0.0833   | 0.1014 | 0.1322 | Ave        |             | 0.0979 |    |   | 20.9    |      | 30.0 |          |                       |   |                           |
| Bromodichloromethane                          | ++++<br>0.4979   | 0.4478<br>0.4742 | 0.5794<br>0.4968 | 0.5383 | 0.7535 | Ave        |             | 0.5411 |    |   | 19.0    |      | 30.0 |          |                       |   |                           |
| cis-1,3-Dichloropropene                       | ++++<br>0.3252   | 0.2851<br>0.2866 | 0.3546<br>0.3168 | 0.3272 | 0.4499 | Ave        |             | 0.3350 |    |   | 16.8    |      | 30.0 |          |                       |   |                           |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | ++++<br>0.3256   | ++++<br>0.3105   | 0.2817<br>0.3100 | 0.3847 | 0.4652 | Ave        |             | 0.3463 |    |   | 19.5    |      | 30.0 |          |                       |   |                           |
| Toluene                                       | ++++<br>0.3917   | ++++<br>0.3291   | 0.4980<br>0.3885 | 0.3929 | 0.4934 | Ave        |             | 0.4051 |    |   | 16.5    |      | 30.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                          | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|----------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                                  | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                                  | LVL 6            | LVL 7            | LVL 8            | LVL 5  |        |            |             |        |    |   |         |      |      |          |            |   |                |
| n-Octane                         | 0.3970<br>0.3702 | 0.3466<br>0.3394 | 0.4541<br>0.3455 | 0.4195 | 0.5513 | Ave        |             | 0.4030 |    |   | 17.9    |      | 30.0 |          |            |   |                |
| trans-1,3-Dichloropropene        | ++++<br>0.3241   | 0.2696<br>0.2804 | 0.3487<br>0.3127 | 0.3311 | 0.4402 | Ave        |             | 0.3295 |    |   | 17.1    |      | 30.0 |          |            |   |                |
| 1,1,2-Trichloroethane            | ++++<br>0.2114   | 0.1820<br>0.1888 | 0.2604<br>0.2015 | 0.2193 | 0.2710 | Ave        |             | 0.2192 |    |   | 15.6    |      | 30.0 |          |            |   |                |
| Tetrachloroethene                | 0.4355<br>0.4617 | 0.4165<br>0.4625 | 0.5417<br>0.4886 | 0.4687 | 0.6052 | Ave        |             | 0.4850 |    |   | 12.6    |      | 30.0 |          |            |   |                |
| Methyl Butyl Ketone (2-Hexanone) | ++++<br>0.3445   | ++++<br>0.3441   | 0.2655<br>0.3321 | 0.3965 | 0.4536 | Ave        |             | 0.3560 |    |   | 17.9    |      | 30.0 |          |            |   |                |
| Dibromochloromethane             | ++++<br>0.5088   | 0.4271<br>0.5724 | 0.6332<br>0.6131 | 0.5859 | 0.7606 | Ave        |             | 0.5859 |    |   | 17.7    |      | 30.0 |          |            |   |                |
| 1,2-Dibromoethane                | ++++<br>0.4438   | 0.3264<br>0.4051 | 0.4804<br>0.4444 | 0.4357 | 0.5623 | Ave        |             | 0.4426 |    |   | 16.2    |      | 30.0 |          |            |   |                |
| Chlorobenzene                    | ++++<br>0.6117   | 0.4949<br>0.5568 | 0.7217<br>0.6103 | 0.5964 | 0.7698 | Ave        |             | 0.6231 |    |   | 15.1    |      | 30.0 |          |            |   |                |
| Ethylbenzene                     | ++++<br>0.8972   | 0.7158<br>0.7958 | 1.0833<br>0.8478 | 0.9192 | 1.1260 | Ave        |             | 0.9122 |    |   | 16.2    |      | 30.0 |          |            |   |                |
| n-Nonane                         | ++++<br>0.3814   | 0.3309<br>0.3456 | 0.4702<br>0.3597 | 0.4040 | 0.5000 | Ave        |             | 0.3988 |    |   | 16.1    |      | 30.0 |          |            |   |                |
| m,p-Xylene                       | ++++<br>0.3676   | 0.2954<br>0.3261 | 0.4247<br>0.3647 | 0.3636 | 0.4462 | Ave        |             | 0.3698 |    |   | 14.1    |      | 30.0 |          |            |   |                |
| o-Xylene                         | ++++<br>0.3484   | 0.2715<br>0.3108 | 0.4039<br>0.3434 | 0.3518 | 0.4300 | Ave        |             | 0.3514 |    |   | 15.2    |      | 30.0 |          |            |   |                |
| Styrene                          | ++++<br>0.5616   | 0.3492<br>0.5108 | 0.5598<br>0.5623 | 0.5390 | 0.6829 | Ave        |             | 0.5379 |    |   | 18.4    |      | 30.0 |          |            |   |                |
| Bromoform                        | ++++<br>0.3139   | 0.3517<br>0.5834 | 0.5752<br>0.6151 | 0.5731 | 0.6986 | Ave        |             | 0.5301 |    |   | 26.8    |      | 30.0 |          |            |   |                |
| Cumene                           | ++++<br>1.0335   | 0.7455<br>0.9303 | 1.1674<br>0.9815 | 1.0518 | 1.2825 | Ave        |             | 1.0275 |    |   | 16.7    |      | 30.0 |          |            |   |                |
| 1,1,2,2-Tetrachloroethane        | ++++<br>0.5504   | 0.4482<br>0.5063 | 0.6336<br>0.5069 | 0.5835 | 0.6956 | Ave        |             | 0.5606 |    |   | 15.0    |      | 30.0 |          |            |   |                |
| n-Propylbenzene                  | ++++<br>1.2323   | 0.8889<br>1.0927 | 1.4608<br>1.0737 | 1.2770 | 1.5395 | Ave        |             | 1.2236 |    |   | 18.6    |      | 30.0 |          |            |   |                |
| 1,2,3-Trichloropropane           | ++++<br>0.4472   | 0.8889<br>0.4020 | 1.4608<br>0.3989 | 0.4827 | 0.5650 | Ave        |             | 0.4759 |    |   | 15.5    |      | 30.0 |          |            |   |                |
| 2-Chlorotoluene                  | ++++<br>0.9181   | 0.7204<br>0.8246 | 1.0617<br>0.8268 | 0.9526 | 1.1642 | Ave        |             | 0.9241 |    |   | 16.4    |      | 30.0 |          |            |   |                |
| 4-Ethyltoluene                   | ++++<br>1.0768   | 0.7192<br>0.9640 | 1.1681<br>0.9775 | 1.0651 | 1.3206 | Ave        |             | 1.0416 |    |   | 17.9    |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                        | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                        | LVL 6            | LVL 7            | LVL 8            | LVL 8  |        |            |             |        |    |   |         |      |      |          |            |   |                |
| n-Decane               | ++++<br>0.4779   | ++++<br>0.4256   | 0.5261<br>0.4153 | 0.5064 | 0.6083 | Ave        |             | 0.4933 |    |   | 14.4    |      | 30.0 |          |            |   |                |
| 1,3,5-Trimethylbenzene | ++++<br>0.8956   | 0.6442<br>0.8150 | 1.0259<br>0.8332 | 0.9157 | 1.1089 | Ave        |             | 0.8912 |    |   | 16.9    |      | 30.0 |          |            |   |                |
| Alpha Methyl Styrene   | 0.2507<br>0.4704 | 0.2440<br>0.4418 | 0.4310<br>0.4794 | 0.4571 | 0.5749 | Ave        |             | 0.4187 |    |   | 27.3    |      | 30.0 |          |            |   |                |
| tert-Butylbenzene      | ++++<br>0.8409   | 0.5813<br>0.7712 | 0.9355<br>0.8126 | 0.8597 | 1.0341 | Ave        |             | 0.8336 |    |   | 16.9    |      | 30.0 |          |            |   |                |
| 1,2,4-Trimethylbenzene | ++++<br>0.8911   | 0.6184<br>0.8144 | 0.9911<br>0.8219 | 0.9134 | 1.1044 | Ave        |             | 0.8792 |    |   | 17.4    |      | 30.0 |          |            |   |                |
| sec-Butylbenzene       | ++++<br>1.2622   | 0.8682<br>1.1513 | 1.4377<br>1.0542 | 1.3128 | 1.5663 | Ave        |             | 1.2361 |    |   | 19.0    |      | 30.0 |          |            |   |                |
| 4-Isopropyltoluene     | ++++<br>1.1224   | 0.6429<br>1.0348 | 1.1711<br>0.9553 | 1.1274 | 1.3624 | Ave        |             | 1.0595 |    |   | 21.0    |      | 30.0 |          |            |   |                |
| 1,3-Dichlorobenzene    | ++++<br>0.7357   | 0.5359<br>0.6840 | 0.7351<br>0.6903 | 0.7077 | 0.8994 | Ave        |             | 0.7126 |    |   | 15.0    |      | 30.0 |          |            |   |                |
| 1,4-Dichlorobenzene    | ++++<br>0.6952   | 0.5161<br>0.6448 | 0.7165<br>0.6563 | 0.6882 | 0.8527 | Ave        |             | 0.6814 |    |   | 14.7    |      | 30.0 |          |            |   |                |
| Benzyl chloride        | ++++<br>0.8847   | 0.5401<br>0.8301 | 0.9012<br>0.7958 | 0.8876 | 1.0484 | Ave        |             | 0.8411 |    |   | 18.4    |      | 30.0 |          |            |   |                |
| n-Butylbenzene         | ++++<br>1.0057   | 0.6646<br>0.9161 | 0.9930<br>0.8422 | 1.0697 | 1.2696 | Ave        |             | 0.9659 |    |   | 19.5    |      | 30.0 |          |            |   |                |
| n-Undecane             | ++++<br>0.5350   | ++++<br>0.4812   | ++++<br>0.4546   | 0.5682 | 0.6776 | Ave        |             | 0.5433 |    |   | 16.1    |      | 30.0 |          |            |   |                |
| 1,2-Dichlorobenzene    | ++++<br>0.6677   | 0.4986<br>0.6195 | 0.6777<br>0.6269 | 0.6715 | 0.8222 | Ave        |             | 0.6549 |    |   | 14.7    |      | 30.0 |          |            |   |                |
| n-Dodecane             | ++++<br>0.4633   | ++++<br>0.4103   | ++++<br>0.3898   | 0.4873 | 0.5744 | Ave        |             | 0.4351 |    |   | 22.5    |      | 30.0 |          |            |   |                |
| 1,2,4-Trichlorobenzene | ++++<br>0.5232   | ++++<br>0.4893   | 0.3677<br>0.4924 | 0.4772 | 0.6037 | Ave        |             | 0.4922 |    |   | 15.5    |      | 30.0 |          |            |   |                |
| Hexachlorobutadiene    | ++++<br>0.4948   | ++++<br>0.4522   | 0.4280<br>0.4430 | 0.4948 | 0.6071 | Ave        |             | 0.4897 |    |   | 12.2    |      | 30.0 |          |            |   |                |
| Naphthalene            | ++++<br>1.0454   | ++++<br>0.9929   | 0.6623<br>0.9673 | 0.9060 | 1.1521 | Ave        |             | 0.9543 |    |   | 17.3    |      | 30.0 |          |            |   |                |
| 1,2,3-Trichlorobenzene | ++++<br>0.4534   | ++++<br>0.4244   | 0.3280<br>0.4206 | 0.4203 | 0.5048 | Ave        |             | 0.4252 |    |   | 13.6    |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID:    |
|---------|-------------------|-----------------|
| Level 1 | IC 200-137447/4   | 200-33385-004.D |
| Level 2 | IC 200-137447/5   | 200-33385-005.D |
| Level 3 | IC 200-137447/6   | 200-33385-006.D |
| Level 4 | IC 200-137447/7   | 200-33385-007.D |
| Level 5 | ICIS 200-137447/8 | 200-33385-008.D |
| Level 6 | IC 200-137447/9   | 200-33385-009.D |
| Level 7 | IC 200-137447/10  | 200-33385-010.D |
| Level 8 | IC 200-137447/11  | 200-33385-011.D |

| ANALYTE                       | IS REF | CURVE TYPE | RESPONSE        |                  |                    |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|-------------------------------|--------|------------|-----------------|------------------|--------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|                               |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8     | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Propylene                     | BCM    | Ave        | ++++<br>1051895 | ++++<br>1420070  | ++++<br>2699122    | 364033  | 785952  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Dichlorodifluoromethane       | BCM    | Ave        | ++++<br>5549641 | ++++<br>7395788  | 228414<br>13419981 | 1908083 | 4085272 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Chlorodifluoromethane         | BCM    | Ave        | ++++<br>2318249 | ++++<br>3204700  | 96426<br>6227733   | 785654  | 1696694 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM    | Ave        | ++++<br>4133878 | 58316<br>5572029 | 171371<br>10569525 | 1389798 | 3006367 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chloromethane                 | BCM    | Ave        | ++++<br>1051513 | ++++<br>1476396  | 42138<br>2915590   | 366991  | 781412  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butane                      | BCM    | Ave        | ++++<br>1427468 | ++++<br>1941633  | 59450<br>3758112   | 492754  | 1051856 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Vinyl chloride                | BCM    | Ave        | 4137<br>1249166 | 16747<br>1700616 | 49384<br>3380364   | 418982  | 919635  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3-Butadiene                 | BCM    | Ave        | 2113<br>794383  | 10959<br>1096868 | 33319<br>2174691   | 260635  | 570903  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromomethane                  | BCM    | Ave        | ++++<br>1527586 | 19363<br>2091603 | 58765<br>4157469   | 486037  | 1095065 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chloroethane                  | BCM    | Ave        | ++++<br>495532  | ++++<br>671660   | 20807<br>1365037   | 158452  | 357997  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Isopentane                    | BCM    | Ave        | ++++<br>950946  | 13287<br>1259758 | 38513<br>2489976   | 328482  | 689287  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromoethene (Vinyl Bromide)   | BCM    | Ave        | ++++<br>1504165 | 18879<br>2054520 | 60365<br>4118977   | 472875  | 1075494 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Trichlorofluoromethane        | BCM    | Ave        | ++++<br>4416027 | 57821<br>5859677 | 181225<br>11375500 | 1466203 | 3176477 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Pentane                     | BCM    | Ave        | ++++<br>1418170 | ++++<br>1888865  | 63337<br>3791215   | 480875  | 1018971 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethanol                       | BCM    | Ave        | ++++<br>390014  | ++++<br>707471   | 130151<br>1712095  | 205970  | 369667  | ++++<br>20.0            | ++++<br>40.0   | 5.01<br>100.0  | 9.99  | 15.0  |



FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                          | IS REF | CURVE TYPE | RESPONSE        |                  |                   |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|----------------------------------|--------|------------|-----------------|------------------|-------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|                                  |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Ethyl ether                      | BCM    | Ave        | 1481<br>544069  | 6134<br>593714   | 21321<br>1271570  | 174979  | 370443  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acrolein                         | BCM    | Ave        | ++++<br>169592  | ++++<br>235550   | ++++<br>543303    | 80408   | 153136  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 1,1,2-Trichlorotrifluoroethane   | BCM    | Ave        | ++++<br>3122448 | 40902<br>4119144 | 130182<br>8372996 | 984428  | 2196444 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1-Dichloroethene               | BCM    | Ave        | 3816<br>1324685 | 20203<br>1849152 | 50516<br>3757862  | 415825  | 939842  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acetone                          | BCM    | Ave        | ++++<br>1288430 | ++++<br>1383034  | ++++<br>2950498   | 446467  | 873048  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Carbon disulfide                 | BCM    | Ave        | ++++<br>3533230 | ++++<br>4650752  | 134380<br>9566310 | 1180486 | 2546288 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Isopropyl alcohol                | BCM    | Ave        | ++++<br>1330275 | ++++<br>1788623  | ++++<br>3508874   | 433961  | 967720  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 3-Chloropropene                  | BCM    | Ave        | ++++<br>1064730 | 13655<br>1391342 | 44893<br>2757743  | 336881  | 586985  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acetonitrile                     | BCM    | Ave        | ++++<br>476460  | ++++<br>491620   | ++++<br>1118502   | 159156  | 322186  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Methylene Chloride               | BCM    | Ave        | ++++<br>1241501 | ++++<br>1595918  | 51169<br>3256585  | 400998  | 879587  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| tert-Butyl alcohol               | BCM    | Ave        | ++++<br>2024721 | ++++<br>2787953  | ++++<br>5538463   | 643959  | 1462343 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Methyl tert-butyl ether          | BCM    | Ave        | ++++<br>2850213 | 34053<br>3214537 | 114110<br>6807313 | 896738  | 1877588 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| trans-1,2-Dichloroethene         | BCM    | Ave        | ++++<br>1662249 | 22236<br>2165148 | 69952<br>4421717  | 527968  | 1160714 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Acrylonitrile                    | BCM    | Ave        | ++++<br>496388  | ++++<br>527389   | 19230<br>1255166  | 157052  | 330215  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Hexane                         | BCM    | Ave        | ++++<br>1337568 | 17454<br>1757444 | 53074<br>3635199  | 419502  | 946701  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1-Dichloroethane               | BCM    | Ave        | 6983<br>2102981 | 26553<br>2699325 | 83323<br>5626599  | 658831  | 1475943 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Vinyl acetate                    | BCM    | Ave        | ++++<br>1807895 | ++++<br>1891260  | ++++<br>4349907   | 583981  | 1232683 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| cis-1,2-Dichloroethene           | BCM    | Ave        | 2810<br>1372886 | 16381<br>1805960 | 51366<br>3807961  | 421703  | 958263  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl Ethyl Ketone (2-Butanone) | BCM    | Ave        | ++++<br>426590  | ++++<br>504703   | 19113<br>1082953  | 135941  | 280092  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethyl acetate                    | BCM    | Ave        | ++++<br>66961   | ++++<br>76105    | ++++<br>163260    | 21125   | 42404   | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Tetrahydrofuran                  | DFBZ   | Ave        | ++++<br>787841  | ++++<br>901182   | ++++<br>1902316   | 260189  | 531349  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                                       | IS REF     | CURVE TYPE | RESPONSE        |                  |                    |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|---|------------|------------|-----------------|------------------|--------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|   |            |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8     | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform                                    | BCM        | Ave        | ++++<br>3210215 | 40034<br>4128100 | 128667<br>8572568  | 989740  | 2240315 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cyclohexane                                   | DFBZ       | Ave        | ++++<br>1479056 | 20662<br>1963429 | 58864<br>4051197   | 449187  | 1040636 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,1-Trichloroethane                         | DFBZ       | Ave        | ++++<br>3683537 | 45084<br>4755711 | 143792<br>9855828  | 1112533 | 2590931 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Carbon tetrachloride                          | DFBZ       | Ave        | 8699<br>4172078 | 44908<br>5453754 | 150815<br>11237527 | 1246640 | 2875434 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 2,2,4-Trimethylpentane                        | DFBZ       | Ave        | ++++<br>5016965 | 62654<br>6475336 | 194884<br>13317097 | 1548759 | 3515364 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Benzene                                       | DFBZ       | Ave        | ++++<br>3570443 | 43168<br>4328088 | 148640<br>9811343  | 1003423 | 2425081 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloroethane                            | DFBZ       | Ave        | ++++<br>2059367 | 24972<br>2489352 | 84959<br>5487945   | 601611  | 1420020 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Heptane                                     | DFBZ       | Ave        | ++++<br>1808294 | 21959<br>2336889 | 72356<br>4741703   | 568208  | 1258258 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butanol                                     | DFBZ       | Ave        | ++++<br>590670  | ++++<br>826101   | ++++<br>1724262    | 171996  | 415873  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Trichloroethene                               | DFBZ       | Ave        | 8278<br>2259549 | 27569<br>3073973 | 78684<br>6338766   | 641772  | 1513764 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloropropane                           | DFBZ       | Ave        | ++++<br>1293872 | 14866<br>1502966 | 51479<br>3457600   | 363894  | 856722  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl methacrylate                           | DFBZ       | Ave        | ++++<br>1098124 | ++++<br>1330674  | 34488<br>2914700   | 320321  | 684345  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Dibromomethane                                | DFBZ       | Ave        | 6295<br>2450905 | 24779<br>2840387 | 71063<br>6458681   | 580456  | 1437496 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,4-Dioxane                                   | DFBZ       | Ave        | ++++<br>641235  | ++++<br>869623   | ++++<br>1725135    | 203616  | 457619  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Bromodichloromethane                          | DFBZ       | Ave        | ++++<br>3677048 | 39756<br>4812503 | 131012<br>10293890 | 1080443 | 2608790 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| cis-1,3-Dichloropropene                       | DFBZ       | Ave        | ++++<br>2401051 | 25306<br>2908180 | 80183<br>6564618   | 656690  | 1557584 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | DFBZ       | Ave        | ++++<br>2404030 | ++++<br>3150659  | 63705<br>6422005   | 772096  | 1610756 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Toluene                                       | CBNZ<br>d5 | Ave        | ++++<br>2697537 | 27235<br>3169437 | 99665<br>7579326   | 735618  | 1720202 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Octane                                      | DFBZ       | Ave        | 7186<br>2733544 | 30772<br>3444502 | 102681<br>7159103  | 841880  | 1908768 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| trans-1,3-Dichloropropene                     | DFBZ       | Ave        | ++++<br>2393129 | ++++<br>2845044  | 78856<br>6478563   | 664445  | 1524139 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2-Trichloroethane                         | CBNZ<br>d5 | Ave        | ++++<br>1455914 | 15065<br>1750288 | 52120<br>3930810   | 410631  | 944671  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                          | IS REF  | CURVE TYPE | RESPONSE        |                   |                    |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|----------------------------------|---------|------------|-----------------|-------------------|--------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|                                  |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7    | LVL 3<br>LVL 8     | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene                | CBNZ d5 | Ave        | 7097<br>3180178 | 34467<br>4287756  | 108407<br>9530791  | 877542  | 2109890 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave        | ++++<br>2372638 | ++++<br>3189962   | 53132<br>6477478   | 742376  | 1581311 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Dibromochloromethane             | CBNZ d5 | Ave        | ++++<br>3504436 | 35343<br>5306808  | 126722<br>11959307 | 1096910 | 2651860 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dibromoethane                | CBNZ d5 | Ave        | ++++<br>3056704 | 27011<br>3755698  | 96147<br>8668262   | 815745  | 1960372 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chlorobenzene                    | CBNZ d5 | Ave        | ++++<br>4212946 | 40954<br>5162562  | 144447<br>11904403 | 1116470 | 2683674 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethylbenzene                     | CBNZ d5 | Ave        | ++++<br>6179511 | 59235<br>7378266  | 216811<br>16537592 | 1720827 | 3925675 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Nonane                         | CBNZ d5 | Ave        | ++++<br>2627135 | 27380<br>3204291  | 94114<br>7015829   | 756388  | 1743091 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| m,p-Xylene                       | CBNZ d5 | Ave        | ++++<br>5063931 | 48888<br>6046753  | 169987<br>14227820 | 1361269 | 3111549 | ++++<br>30.0            | 0.401<br>40.0  | 1.00<br>80.0   | 9.99  | 20.0  |
| o-Xylene                         | CBNZ d5 | Ave        | ++++<br>2399623 | 22469<br>2881433  | 80844<br>6699071   | 658661  | 1499082 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Styrene                          | CBNZ d5 | Ave        | ++++<br>3868129 | 28896<br>4735875  | 112030<br>10969590 | 1009105 | 2380815 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromoform                        | CBNZ d5 | Ave        | ++++<br>2161781 | 29102<br>5408954  | 115114<br>11998176 | 1072914 | 2435440 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cumene                           | CBNZ d5 | Ave        | ++++<br>7117974 | 61695<br>8625268  | 233651<br>19146334 | 1969132 | 4471409 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2,2-Tetrachloroethane        | CBNZ d5 | Ave        | ++++<br>3790940 | 37089<br>4694500  | 126803<br>9888341  | 1092336 | 2425088 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Propylbenzene                  | CBNZ d5 | Ave        | ++++<br>8487730 | 73558<br>10131225 | 292366<br>20945257 | 2390637 | 5367272 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,3-Trichloropropane           | CBNZ d5 | Ave        | ++++<br>3079793 | ++++<br>3726635   | 111994<br>7781871  | 903747  | 1969674 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 2-Chlorotoluene                  | CBNZ d5 | Ave        | ++++<br>6323624 | 59613<br>7644964  | 212485<br>16128555 | 1783458 | 4058986 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Ethyltoluene                   | CBNZ d5 | Ave        | ++++<br>7416727 | 59515<br>8937124  | 233789<br>19068557 | 1994007 | 4603967 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Decane                         | CBNZ d5 | Ave        | ++++<br>3291763 | ++++<br>3946033   | 105294<br>8101213  | 948077  | 2120895 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3,5-Trimethylbenzene           | CBNZ d5 | Ave        | ++++<br>6168169 | 53306<br>7555721  | 205318<br>16252663 | 1714281 | 3866116 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Alpha Methyl Styrene             | CBNZ d5 | Ave        | 4086<br>3239717 | 20195<br>4096139  | 86259<br>9352072   | 855695  | 2004428 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| tert-Butylbenzene                | CBNZ d5 | Ave        | ++++<br>5791514 | 48103<br>7149602  | 187237<br>15852197 | 1609408 | 3605410 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-46353-1

Analy Batch No.: 137447

SDG No.: 200-46353-1

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 20:22

Calibration End Date: 11/28/2018 02:15

Calibration ID: 40668

| ANALYTE                | IS REF  | CURVE TYPE | RESPONSE        |                   |                    |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|------------------------|---------|------------|-----------------|-------------------|--------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|                        |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7    | LVL 3<br>LVL 8     | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave        | ++++<br>6137145 | 51172<br>7550261  | 198359<br>16033863 | 1709998 | 3850351 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| sec-Butylbenzene       | CBNZ d5 | Ave        | ++++<br>8693056 | 71845<br>10673825 | 287732<br>20565381 | 2457706 | 5460744 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Isopropyltoluene     | CBNZ d5 | Ave        | ++++<br>7730417 | 53198<br>9594097  | 234383<br>18636156 | 2110536 | 4749785 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>5066879 | 44349<br>6341580  | 147114<br>13465059 | 1324895 | 3135758 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,4-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>4788189 | 42712<br>5978083  | 143403<br>12802544 | 1288460 | 2972771 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Benzyl chloride        | CBNZ d5 | Ave        | ++++<br>6093646 | 44697<br>7695730  | 180360<br>15523695 | 1661751 | 3655270 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butylbenzene         | CBNZ d5 | Ave        | ++++<br>6926989 | 54995<br>8493710  | 198746<br>16429525 | 2002534 | 4426320 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Undecane             | CBNZ d5 | Ave        | ++++<br>3684708 | ++++<br>4461241   | ++++<br>8868673    | 1063652 | 2362262 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| 1,2-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>4598903 | 41264<br>5743225  | 135642<br>12229345 | 1257186 | 2866493 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Dodecane             | CBNZ d5 | Ave        | ++++<br>3190960 | ++++<br>3804271   | 57122<br>7604798   | 912362  | 2002652 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>3603443 | ++++<br>4536179   | 73588<br>9605184   | 893344  | 2104583 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Hexachlorobutadiene    | CBNZ d5 | Ave        | ++++<br>3408169 | ++++<br>4192325   | 35418<br>8641895   | 101589  | 926407  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Naphthalene            | CBNZ d5 | Ave        | ++++<br>7199838 | ++++<br>9205645   | 132543<br>18868971 | 1696136 | 4016657 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>3122511 | ++++<br>3934722   | 65637<br>8204087   | 786857  | 1759849 | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |

Curve Type Legend:

Ave = Average ISTD

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 1

Inject. Date: 27-Nov-2018 20:22:30

ALS Bottle#: 3 Worklist Smp#: 4

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0033385-004

Operator ID: vtp

Instrument ID: CHG.i

Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m

Limit Group: AI\_TO15\_ICAL

Last Update: 28-Nov-2018 11:37:31

Calib Date: 28-Nov-2018 02:15:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm)

Det: MS SCAN

Process Host: CTX0306

First Level Reviewer: desjardinsb

Date: 28-Nov-2018 08:19:50

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.096     | 3.090         | 0.006         | 55 | 5713     | 0.0351          | 0.0760            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 95 | 14956    | 0.0351          | 0.0368            |       |
| 3 Chlorodifluoromethane       | 51  | 3.187     | 3.176         | 0.011         | 94 | 7620     | 0.0351          | 0.0441            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 85 | 10662    | 0.0351          | 0.0349            |       |
| 5 Chloromethane               | 50  | 3.465     | 3.454         | 0.011         | 55 | 4325     | 0.0351          | 0.0547            |       |
| 6 Butane                      | 43  | 3.598     | 3.604         | -0.006        | 64 | 2884     | 0.0351          | 0.0271            |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 23 | 4137     | 0.0351          | 0.0435            |       |
| 8 Butadiene                   | 54  | 3.705     | 3.689         | 0.016         | 38 | 2113     | 0.0351          | 0.0357            |       |
| 10 Bromomethane               | 94  | 4.219     | 4.208         | 0.011         | 60 | 4646     | 0.0351          | 0.0423            |       |
| 11 Chloroethane               | 64  | 4.385     | 4.380         | 0.005         | 30 | 1699     | 0.0351          | 0.0464            |       |
| 12 2-Methylbutane             | 43  | 4.438     | 4.438         | 0.000         | 50 | 2947     | 0.0351          | 0.0420            |       |
| 13 Vinyl bromide              | 106 | 4.679     | 4.685         | -0.005        | 46 | 3642     | 0.0351          | 0.0335            |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 83 | 11173    | 0.0351          | 0.0348            |       |
| 16 Pentane                    | 43  | 4.872     | 4.866         | 0.006         | 87 | 4896     | 0.0351          | 0.0461            |       |
| 17 Ethanol                    | 45  | 5.246     | 5.209         | 0.037         | 67 | 1808     | 0.0702          | 0.0821            |       |
| 18 Ethyl ether                | 59  | 5.332     | 5.278         | 0.054         | 35 | 1481     | 0.0351          | 0.0397            |       |
| 19 Acrolein                   | 56  | 5.621     | 5.594         | 0.027         | 33 | 1228     | 0.0351          | 0.0860            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 87 | 9326     | 0.0351          | 0.0413            |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 56 | 3816     | 0.0351          | 0.0383            |       |
| 22 Acetone                    | 43  | 5.894     | 5.856         | 0.038         | 98 | 15881    | 0.0351          | 0.1874            |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006        | 97 | 4780     | 0.0351          | 0.0187            |       |
| 24 Isopropyl alcohol          | 45  | 6.145     | 6.097         | 0.048         | 43 | 1434     | 0.0351          | 0.0153            |       |
| 25 3-Chloro-1-propene         | 41  | 6.316     | 6.311         | 0.005         | 57 | 2636     | 0.0351          | 0.0356            |       |
| 26 Acetonitrile               | 41  | 6.450     | 6.423         | 0.027         | 56 | 1278     | 0.0351          | 0.0412            |       |
| 27 Methylene Chloride         | 49  | 6.546     | 6.557         | -0.011        | 65 | 2403     | 0.0351          | 0.0268            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.835     | 6.771         | 0.064         | 75 | 3367     | 0.0351          | 0.0235            |       |
| 29 Methyl tert-butyl ether    | 73  | 6.985     | 6.937         | 0.048         | 87 | 3218     | 0.0351          | 0.0166            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 55 | 2773     | 0.0351          | 0.0230            |       |
| 32 Acrylonitrile              | 53  | 7.065     | 7.076         | -0.011        | 1  | 176      | 0.0351          | 0.005203          |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000         | 68 | 3226     | 0.0351          | 0.0336            |       |
| 34 1,1-Dichloroethane         | 63  | 7.723     | 7.728         | -0.005        | 19 | 6983     | 0.0351          | 0.0449            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.814     | 7.793          | 0.021         | 63 | 3258     | 0.0351          | 0.0277            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 38 | 2810     | 0.0351          | 0.0298            |       |
| 38 2-Butanone (MEK)            | 72  | 8.830     | 8.793          | 0.037         | 53 | 509      | 0.0351          | 0.0167            |       |
| 39 Ethyl acetate               | 88  | 8.750     | 8.831          | -0.081        | 1  | 62       | 0.0351          | 0.0143            |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.162          | -0.005        | 75 | 1088567  | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.189     | 9.210          | -0.021        | 1  | 399      | 0.0351          | 0.006778          |       |
| 42 Chloroform                  | 83  | 9.275     | 9.275          | 0.000         | 49 | 8544     | 0.0351          | 0.0376            | M     |
| 43 Cyclohexane                 | 84  | 9.526     | 9.537          | -0.011        | 57 | 4041     | 0.0351          | 0.0341            |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.547          | -0.005        | 96 | 9215     | 0.0351          | 0.0321            | M     |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |          | 0.0702          | 0.0528            |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 93 | 8699     | 0.0351          | 0.0284            | M     |
| 46 Isooctane                   | 57  |           | 10.205         |               |    |          | ND              | ND                |       |
| 47 Benzene                     | 78  | 10.221    | 10.221         | 0.000         | 95 | 10981    | 0.0351          | 0.0400            | M     |
| 48 1,2-Dichloroethane          | 62  |           | 10.387         |               |    |          | ND              | ND                |       |
| 49 n-Heptane                   | 43  | 10.580    | 10.575         | 0.005         | 68 | 3569     | 0.0351          | 0.0252            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.024         | 0.000         | 93 | 5159728  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.532    | 11.463         | 0.069         | 53 | 2316     | 0.0351          | 0.0498            |       |
| 53 Trichloroethene             | 95  | 11.489    | 11.489         | 0.000         | 89 | 8278     | 0.0351          | 0.0460            | M     |
| 54 1,2-Dichloropropane         | 63  |           | 12.024         |               |    |          | ND              | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.217         |               |    |          | ND              | ND                |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0  | 19750183 | 0.0351          | 0                 |       |
| 57 Dibromomethane              | 174 | 12.265    | 12.276         | -0.011        | 84 | 6295     | 0.0351          | 0.0380            | M     |
| 56 1,4-Dioxane                 | 88  | 12.270    | 12.281         | -0.011        | 1  | 134      | 0.0351          | 0.002653          |       |
| 58 Dichlorobromomethane        | 83  |           | 12.565         |               |    |          | ND              | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.485    | 13.479         | 0.006         | 68 | 4723     | 0.0351          | 0.0273            | M     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.832    | 13.795         | 0.037         | 69 | 3738     | 0.0351          | 0.0209            |       |
| 65 Toluene                     | 92  | 14.063    | 14.068         | -0.006        | 96 | 5065     | 0.0351          | 0.0269            |       |
| 64 n-Octane                    | 43  | 14.153    | 14.153         | 0.000         | 83 | 7186     | 0.0351          | 0.0346            |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0  | 19983860 | 0.0351          | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.667    | 14.662         | 0.005         | 36 | 3559     | 0.0351          | 0.0209            |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.031         |               |    |          | ND              | ND                |       |
| 68 Tetrachloroethene           | 166 | 15.154    | 15.143         | 0.011         | 91 | 7097     | 0.0351          | 0.0315            | M     |
| 69 2-Hexanone                  | 43  | 15.528    | 15.518         | 0.010         | 13 | 1905     | 0.0351          | 0.0115            |       |
| 71 Chlorodibromomethane        | 129 | 15.785    | 15.790         | -0.005        | 68 | 5848     | 0.0351          | 0.0215            |       |
| 72 Ethylene Dibromide          | 107 | 16.042    | 16.053         | -0.011        | 43 | 4765     | 0.0351          | 0.0232            | M     |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 85 | 4646288  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 48 | 9434     | 0.0351          | 0.0326            |       |
| 76 Ethylbenzene                | 91  | 17.197    | 17.192         | 0.005         | 76 | 14185    | 0.0351          | 0.0335            |       |
| 77 n-Nonane                    | 57  | 17.363    | 17.358         | 0.005         | 75 | 5302     | 0.0351          | 0.0286            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.454    | 17.449         | 0.005         | 0  | 11044    | 0.0702          | 0.0643            |       |
| 79 o-Xylene                    | 106 | 18.305    | 18.294         | 0.011         | 77 | 1032     | 0.0351          | 0.006321          |       |
| 80 Styrene                     | 104 | 18.364    | 18.348         | 0.016         | 60 | 1940     | 0.0351          | 0.007762          |       |
| 81 Bromoform                   | 173 | 18.781    | 18.786         | -0.005        | 75 | 2566     | 0.0351          | 0.0104            |       |
| 82 Isopropylbenzene            | 105 | 19.048    | 19.048         | 0.000         | 63 | 12957    | 0.0351          | 0.0271            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          | 0.1052          | 0.0706            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 78 | 6387     | 0.0351          | 0.0245            |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 91 | 15129    | 0.0351          | 0.0266            |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 80 | 5215     | 0.0351          | 0.0236            |       |
| 89 2-Chlorotoluene             | 91  | 20.060    | 20.054         | 0.006         | 92 | 11608    | 0.0351          | 0.0270            |       |
| 88 4-Ethyltoluene              | 105 | 20.065    | 20.060         | 0.005         | 78 | 10977    | 0.0351          | 0.0227            |       |
| 87 n-Decane                    | 57  | 20.081    | 20.086         | -0.005        | 77 | 4260     | 0.0351          | 0.0186            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.177         | 0.000         | 90 | 9102     | 0.0351          | 0.0220            |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.568    | 20.573        | -0.005        | 58 | 4086     | 0.0351          | 0.0210            |       |
| 92 tert-Butylbenzene       | 119 | 20.696    | 20.702        | -0.006        | 74 | 9701     | 0.0351          | 0.0250            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 72 | 9703     | 0.0351          | 0.0238            |       |
| 94 sec-Butylbenzene        | 105 | 21.055    | 21.049        | 0.006         | 97 | 15189    | 0.0351          | 0.0264            |       |
| 95 4-Isopropyltoluene      | 119 | 21.274    | 21.269        | 0.005         | 93 | 12938    | 0.0351          | 0.0263            |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.285    | 21.279        | 0.006         | 84 | 10895    | 0.0351          | 0.0329            |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 61 | 10808    | 0.0351          | 0.0341            |       |
| 98 Benzyl chloride         | 91  | 21.622    | 21.627        | -0.005        | 94 | 12440    | 0.0351          | 0.0318            |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 95 | 12903    | 0.0351          | 0.0288            |       |
| 99 Undecane                | 57  | 21.921    | 21.911        | 0.010         | 83 | 6113     | 0.0351          | 0.0242            |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 89 | 10097    | 0.0351          | 0.0332            |       |
| 102 Dodecane               | 57  | 23.435    | 23.441        | -0.006        | 16 | 5599     | 0.0351          | 0.0277            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334    | 24.345        | -0.011        | 89 | 13858    | 0.0351          | 0.0606            |       |
| 104 Hexachlorobutadiene    | 225 | 24.532    | 24.537        | -0.005        | 77 | 9105     | 0.0351          | 0.0400            |       |
| 105 Naphthalene            | 128 | 24.789    | 24.783        | 0.006         | 98 | 30635    | 0.0351          | 0.0691            |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.238    | 25.233        | 0.005         | 74 | 16370    | 0.0351          | 0.0829            |       |

**QC Flag Legend**

## Processing Flags

ND - Not Detected or Marked ND

## Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL1w\_00197

Amount Added: 35.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D

Injection Date: 27-Nov-2018 20:22:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

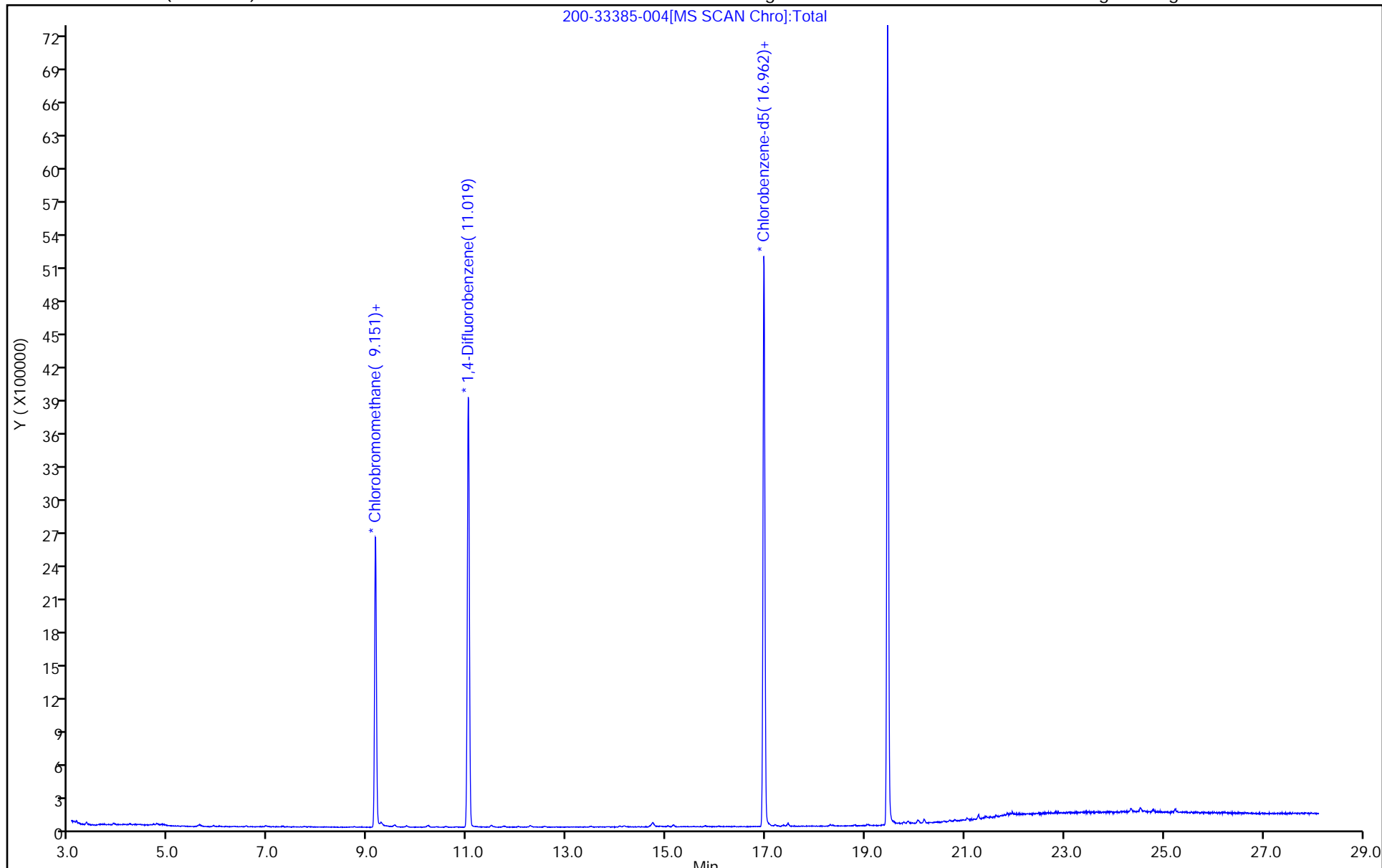
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





TestAmerica Burlington

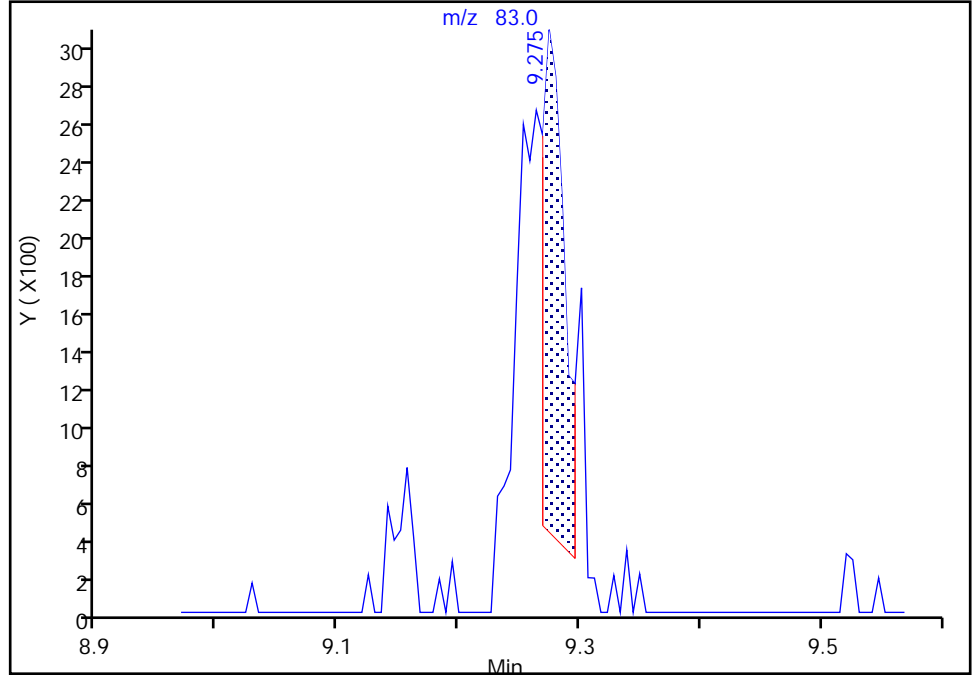
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Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

42 Chloroform, CAS: 67-66-3

Signal: 1

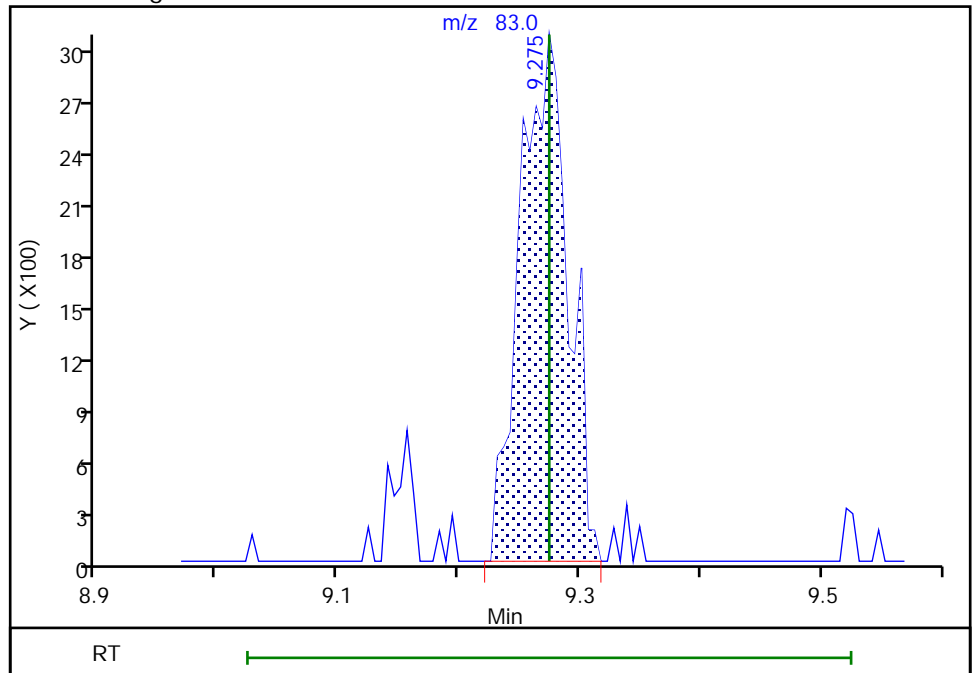
RT: 9.27  
Area: 3493  
Amount: 0.015362  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.27  
Area: 8544  
Amount: 0.037576  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:49:34  
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Burlington

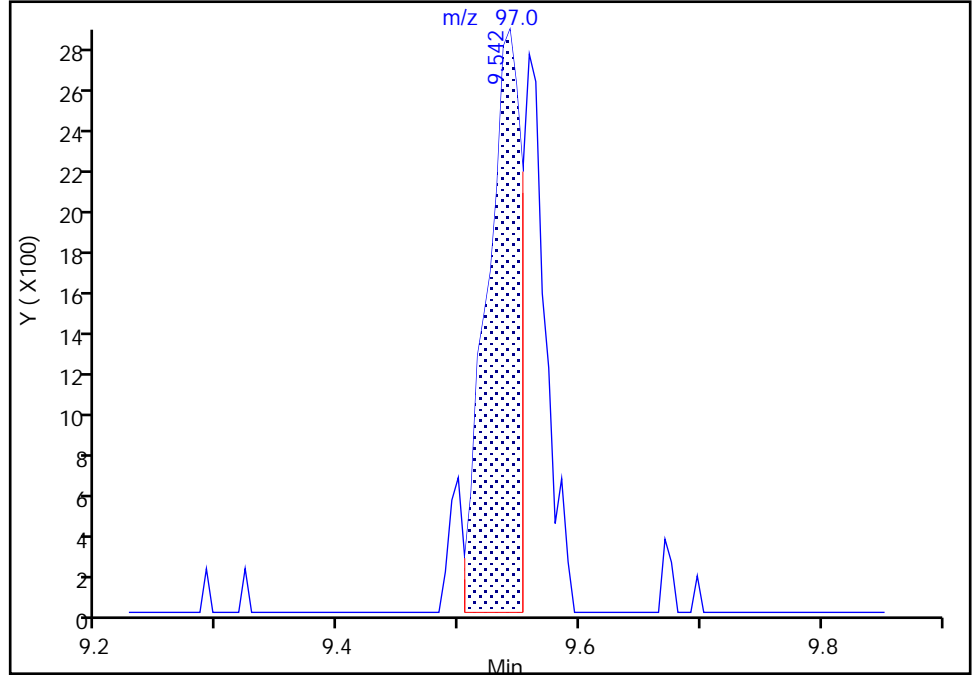
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Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

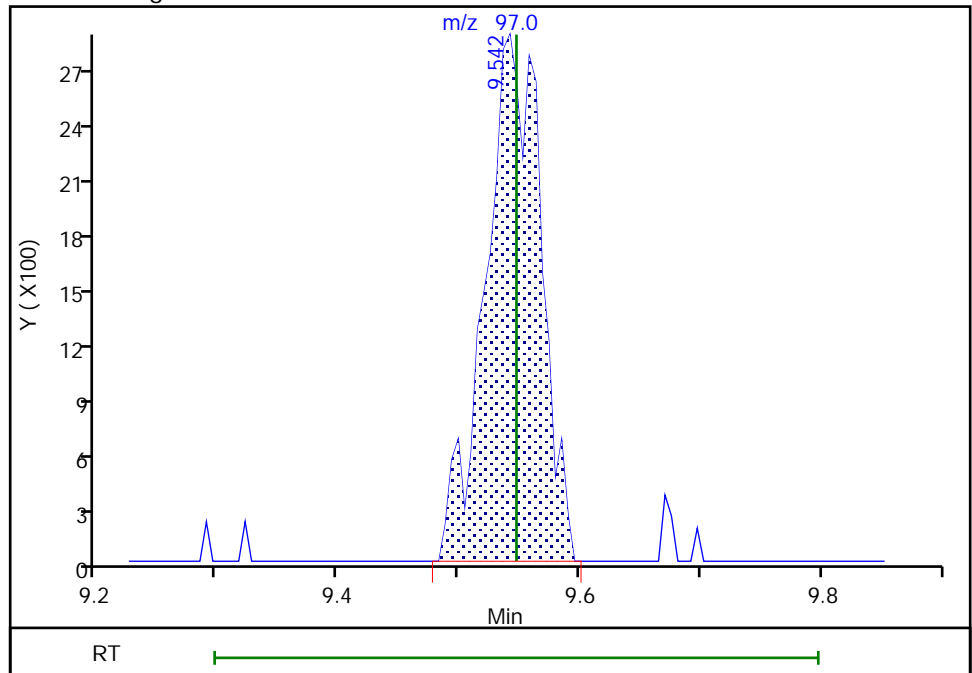
RT: 9.54  
Area: 5715  
Amount: 0.021270  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.54  
Area: 9215  
Amount: 0.032142  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:52:18  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

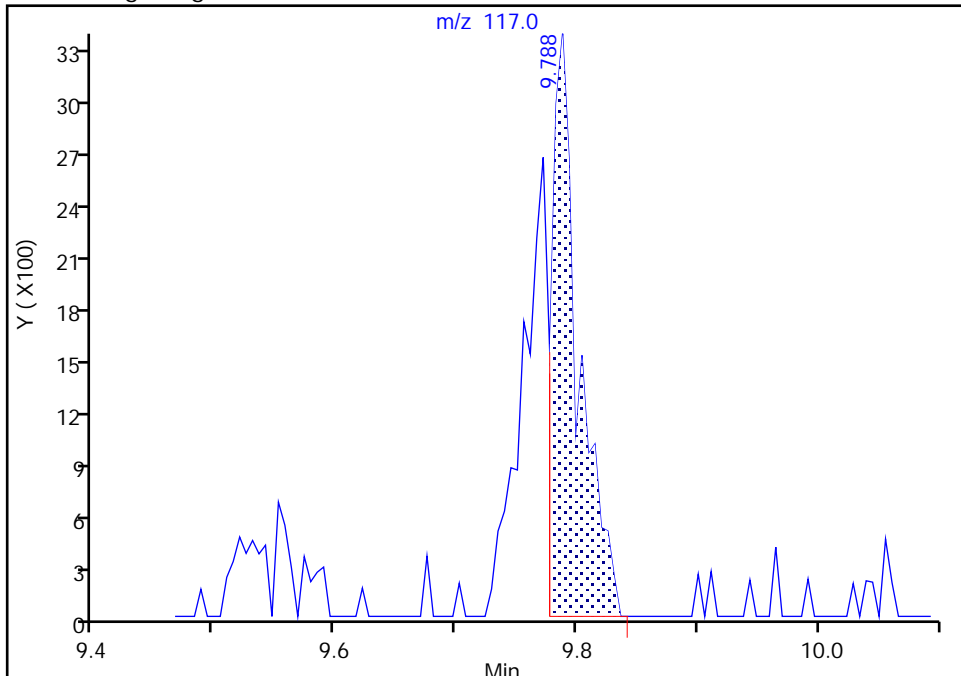
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

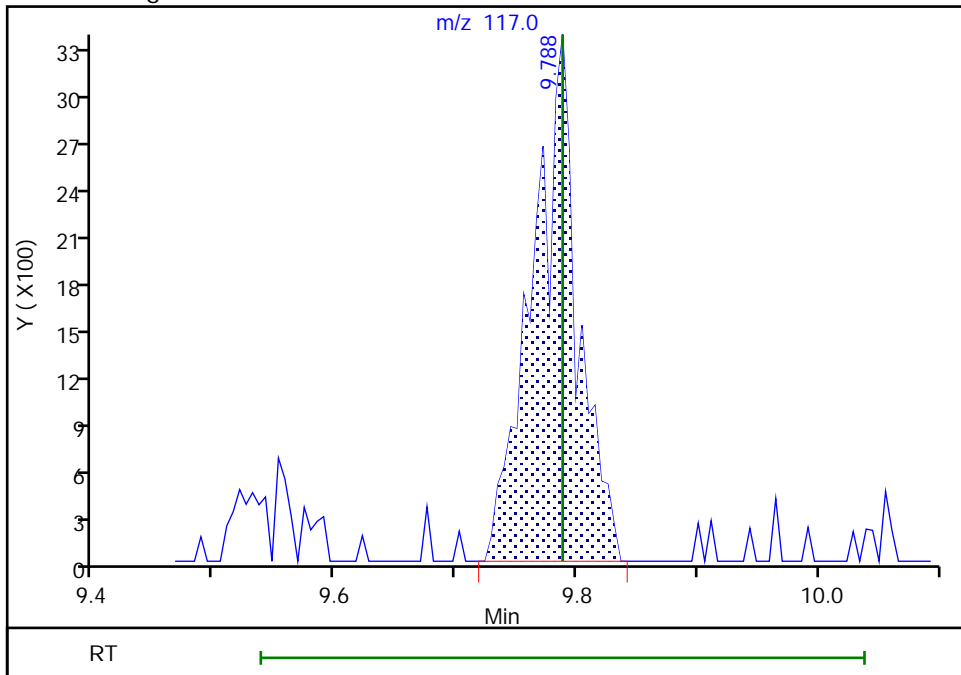
RT: 9.79  
Area: 5174  
Amount: 0.017611  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.79  
Area: 8699  
Amount: 0.028396  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:53:12  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

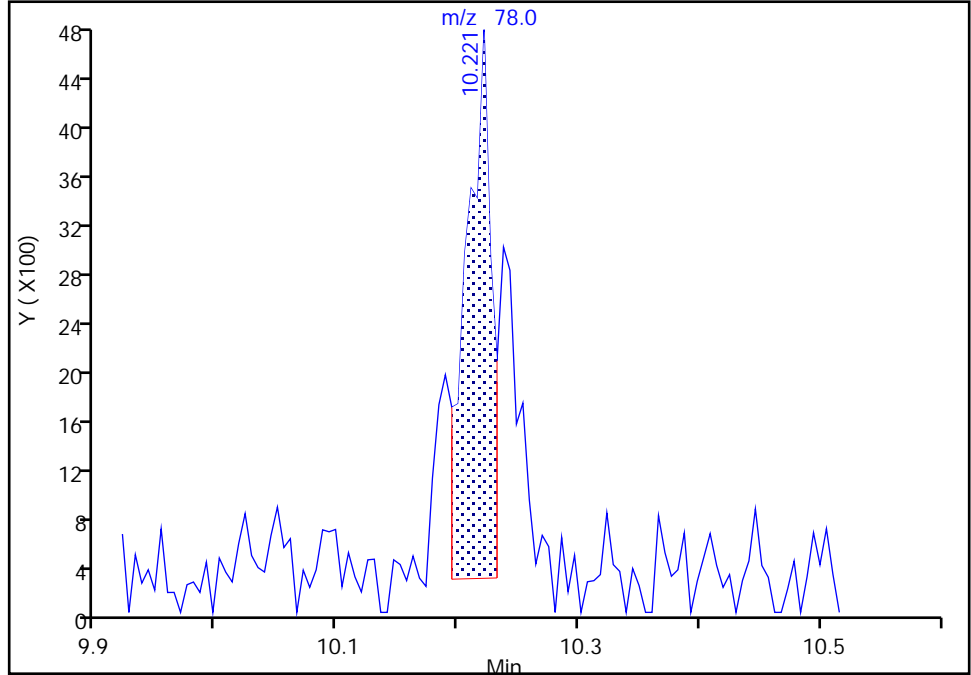
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 1

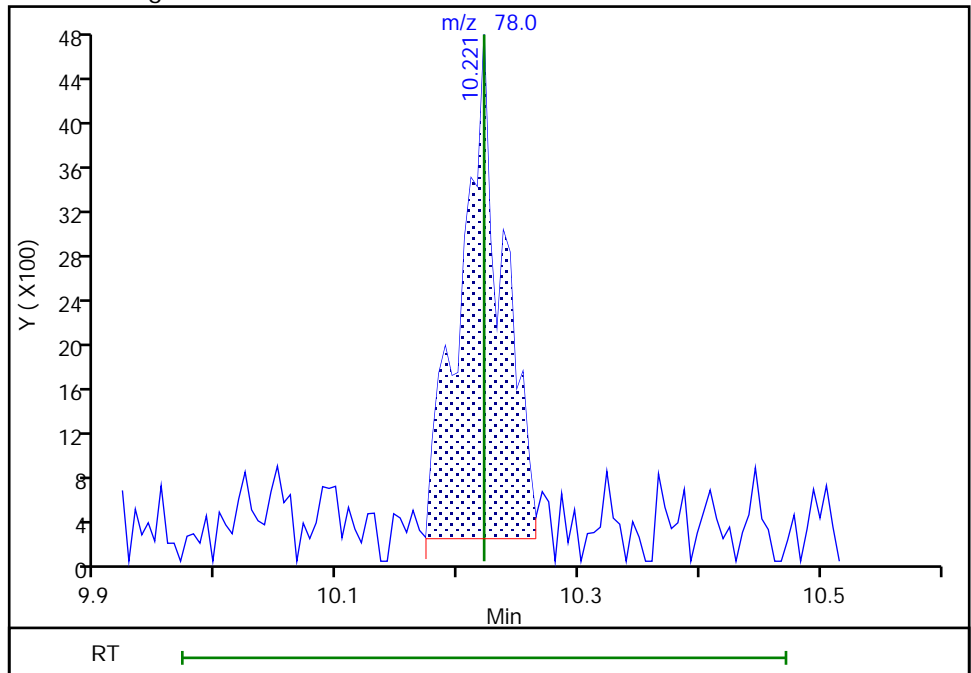
RT: 10.22  
Area: 6577  
Amount: 0.023938  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.22  
Area: 10981  
Amount: 0.039967  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:56:38  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

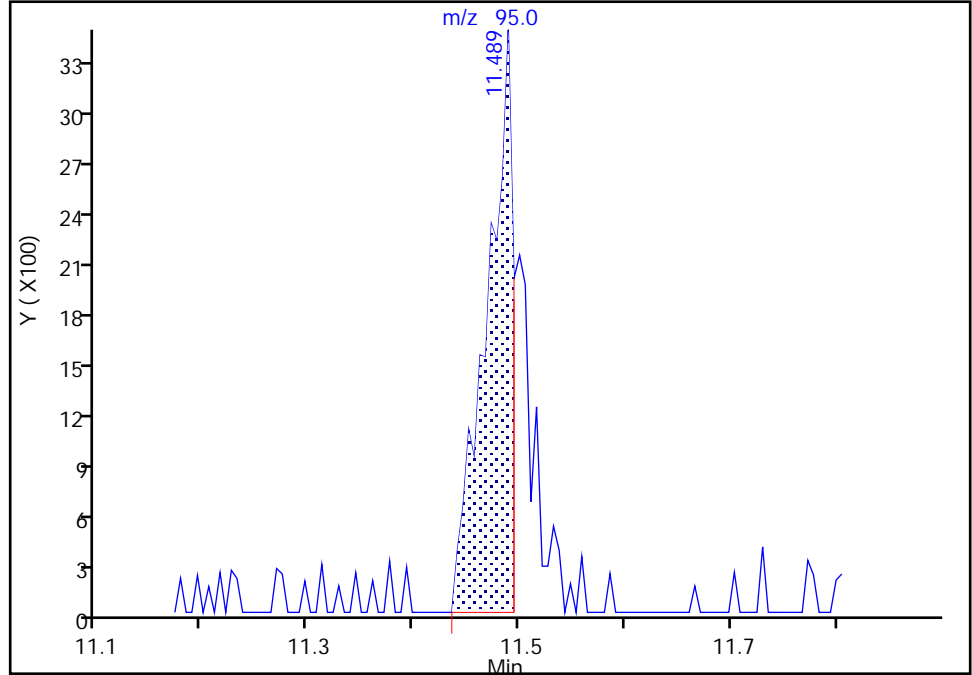
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Signal: 1

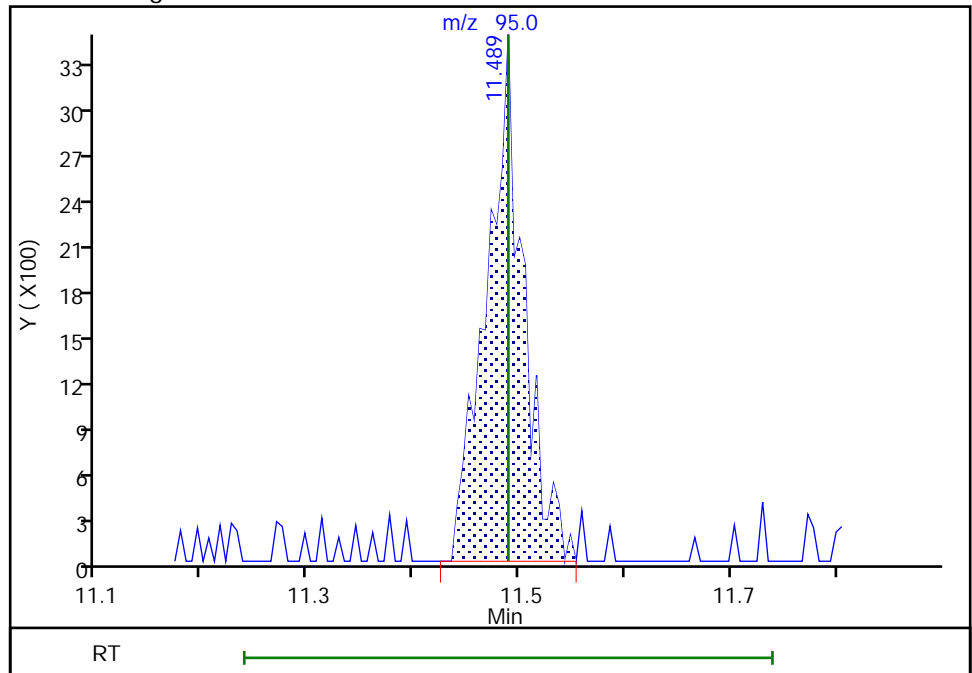
RT: 11.49  
Area: 5887  
Amount: 0.034371  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.49  
Area: 8278  
Amount: 0.046041  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:57:42  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

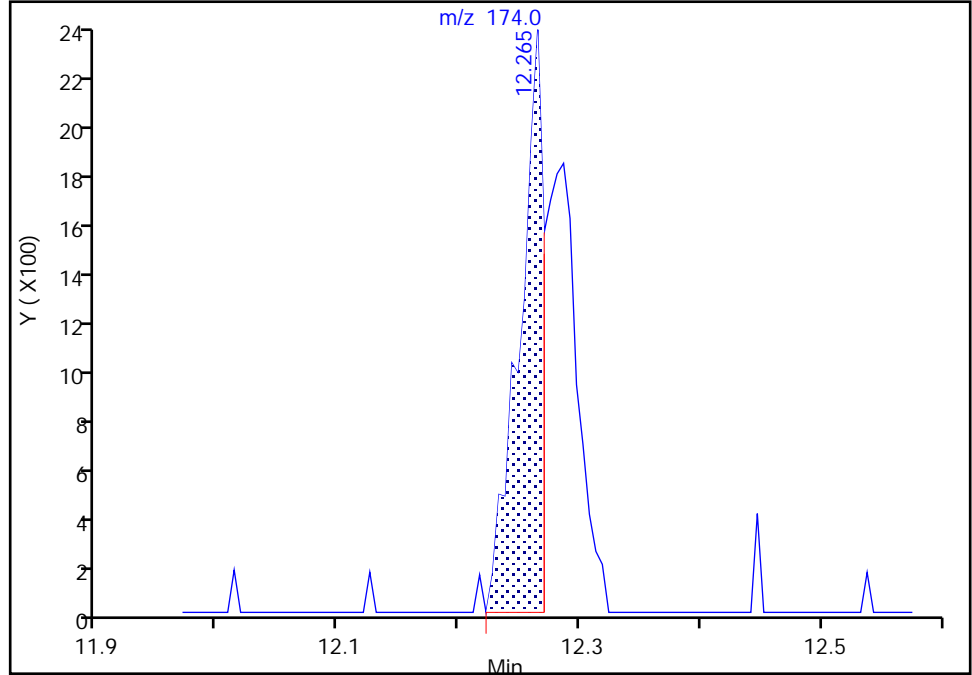
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

57 Dibromomethane, CAS: 74-95-3

Signal: 1

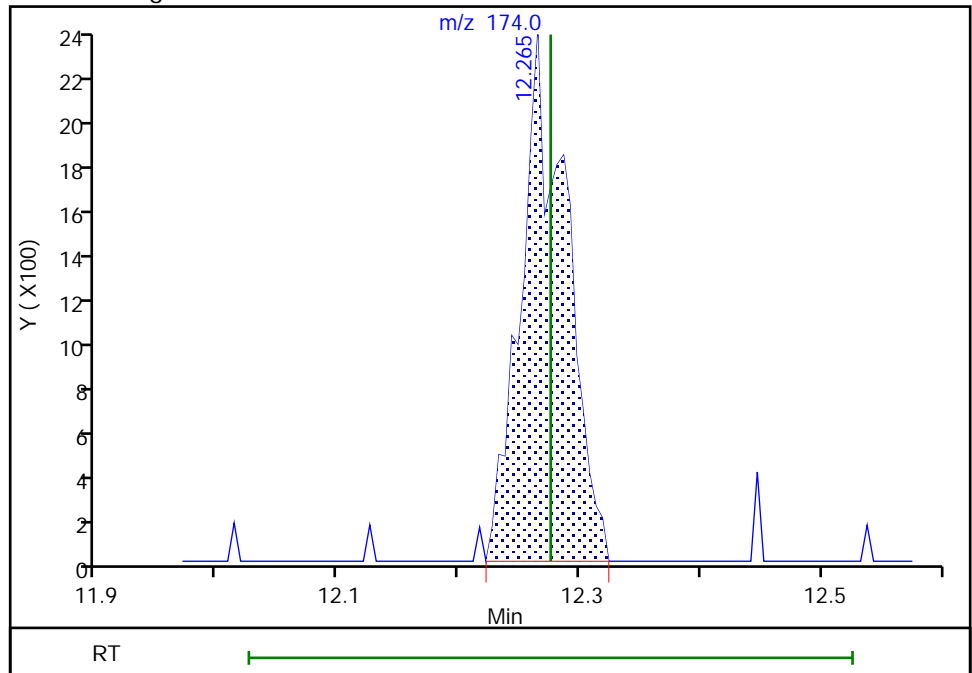
RT: 12.27  
Area: 3287  
Amount: 0.022445  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.27  
Area: 6295  
Amount: 0.037991  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:58:27  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

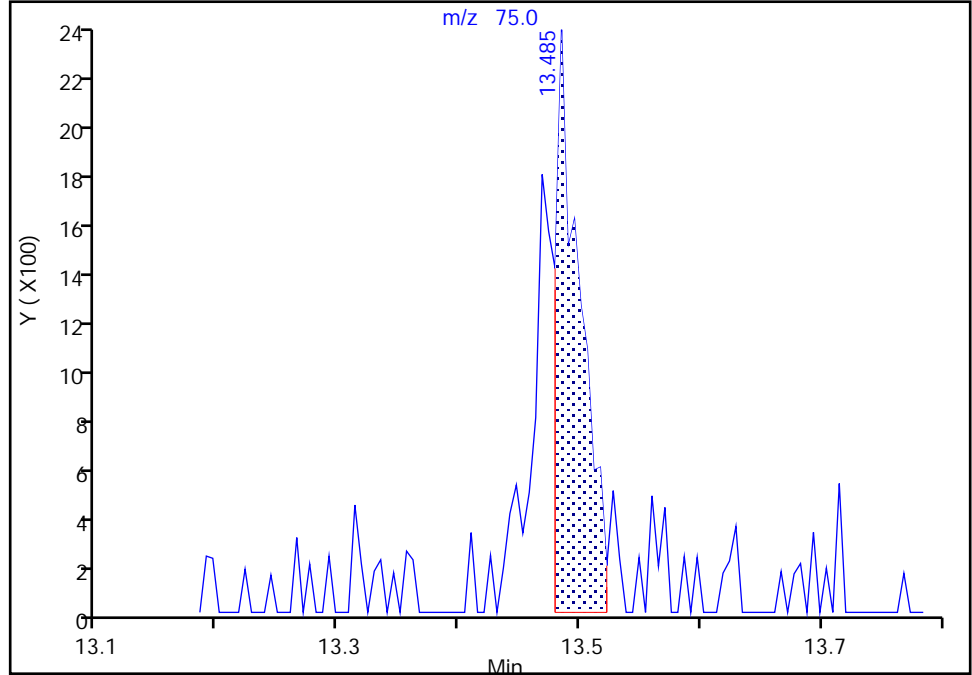
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

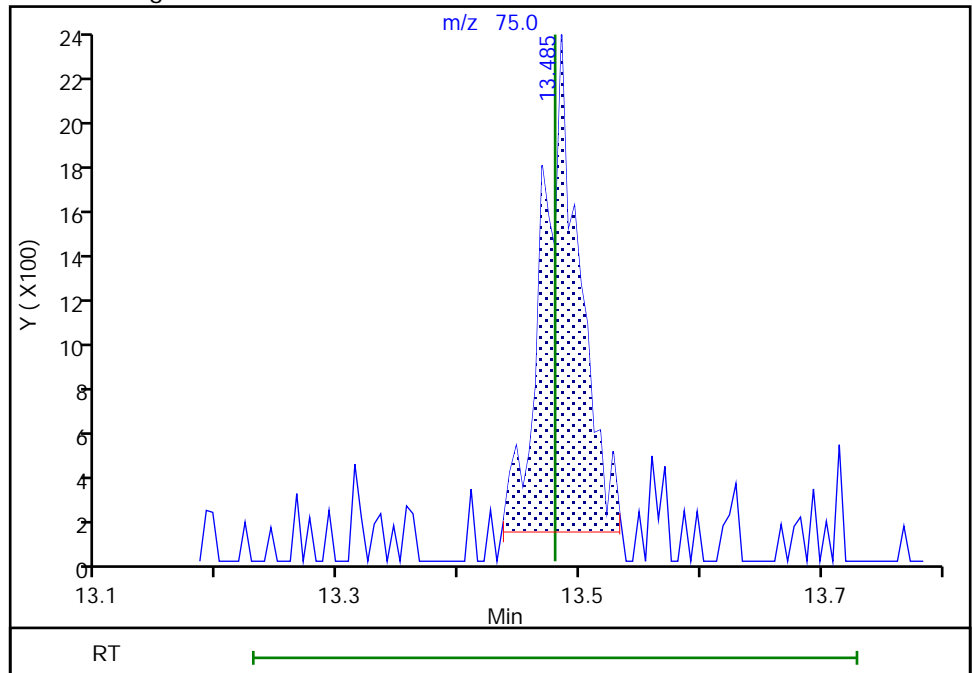
RT: 13.48  
Area: 3365  
Amount: 0.020476  
Amount Units: ppb v/v

Processing Integration Results



RT: 13.48  
Area: 4723  
Amount: 0.027321  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 08:59:41  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

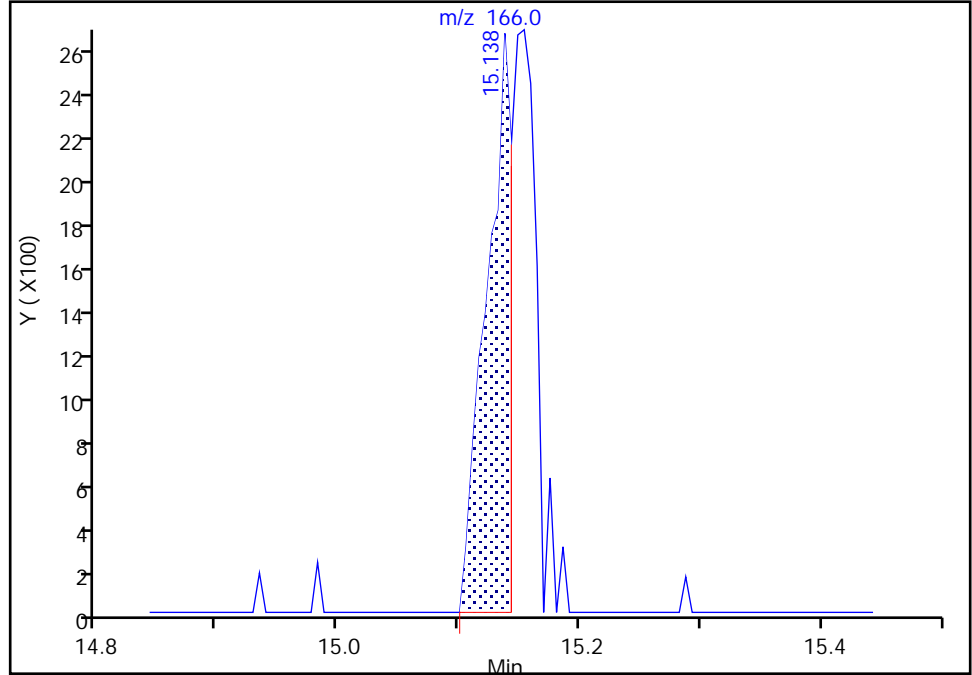
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Signal: 1

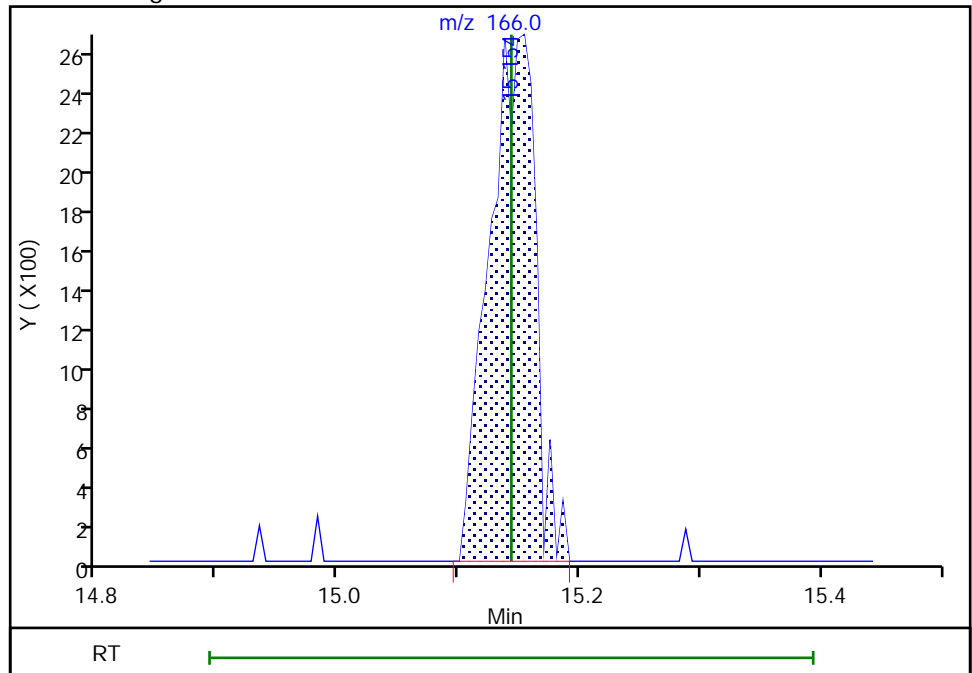
RT: 15.14  
Area: 3825  
Amount: 0.017899  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.15  
Area: 7097  
Amount: 0.031491  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:00:53  
Audit Action: Manually Integrated

Audit Reason: Split Peak



TestAmerica Burlington

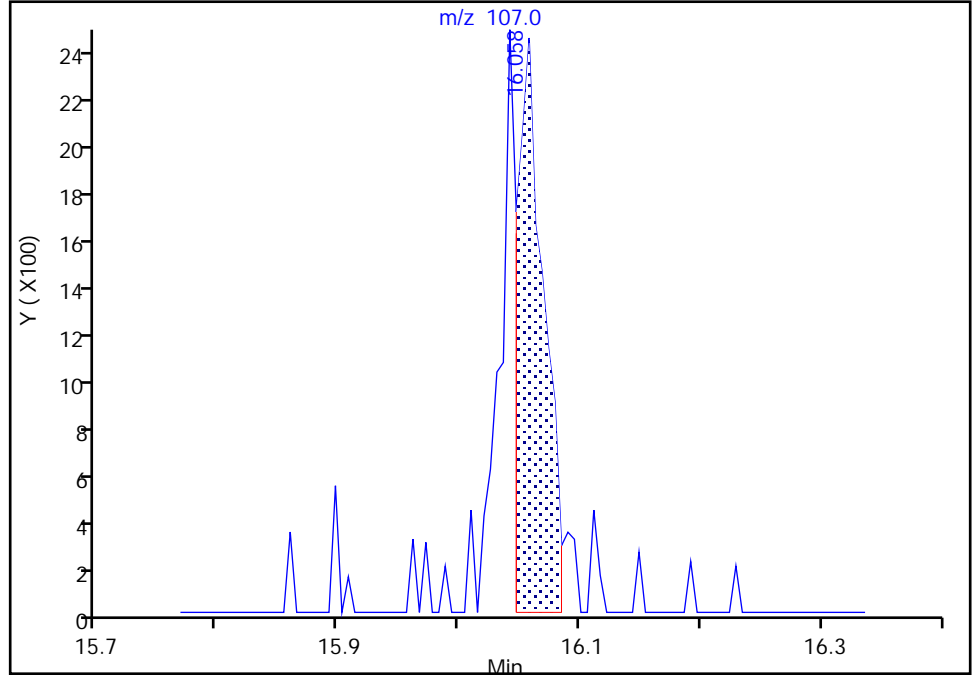
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-004.D  
Injection Date: 27-Nov-2018 20:22:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

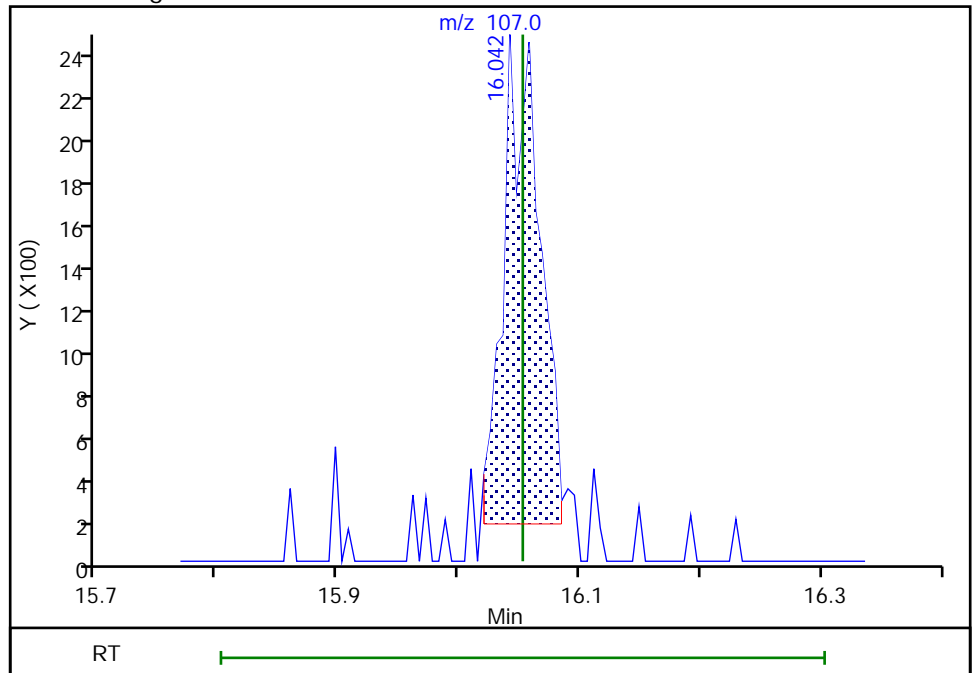
RT: 16.06  
Area: 3709  
Amount: 0.018037  
Amount Units: ppb v/v

Processing Integration Results



RT: 16.04  
Area: 4765  
Amount: 0.023172  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:02:24  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 2

Inject. Date: 27-Nov-2018 21:13:30

ALS Bottle#: 4 Worklist Smp#: 5

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0033385-005

Operator ID: vtp

Instrument ID: CHG.i

Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m

Limit Group: AI\_TO15\_ICAL

Last Update: 28-Nov-2018 11:37:32

Calib Date: 28-Nov-2018 02:15:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm)

Det: MS SCAN

Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 09:17:21

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 95 | 19449    | 0.2004          | 0.2809            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99 | 78417    | 0.2004          | 0.2096            |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.176         | 0.005         | 96 | 31355    | 0.2004          | 0.1969            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 90 | 58316    | 0.2004          | 0.2071            |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99 | 16676    | 0.2004          | 0.2291            |       |
| 6 Butane                      | 43  | 3.609     | 3.604         | 0.005         | 98 | 21809    | 0.2004          | 0.2226            |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 97 | 16747    | 0.2004          | 0.1911            |       |
| 8 Butadiene                   | 54  | 3.689     | 3.689         | 0.000         | 89 | 10959    | 0.2004          | 0.2010            |       |
| 10 Bromomethane               | 94  | 4.219     | 4.208         | 0.011         | 98 | 19363    | 0.2004          | 0.1914            |       |
| 11 Chloroethane               | 64  | 4.396     | 4.380         | 0.016         | 79 | 6919     | 0.2004          | 0.2052            |       |
| 12 2-Methylbutane             | 43  | 4.444     | 4.438         | 0.006         | 80 | 13287    | 0.2004          | 0.2054            |       |
| 13 Vinyl bromide              | 106 | 4.690     | 4.685         | 0.006         | 97 | 18879    | 0.2004          | 0.1887            |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98 | 57821    | 0.2004          | 0.1956            |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 96 | 22871    | 0.2004          | 0.2336            |       |
| 17 Ethanol                    | 45  | 5.236     | 5.209         | 0.027         | 94 | 7623     | 0.4009          | 0.3759            |       |
| 18 Ethyl ether                | 59  | 5.310     | 5.278         | 0.032         | 80 | 6134     | 0.2004          | 0.1786            |       |
| 19 Acrolein                   | 56  | 5.621     | 5.594         | 0.027         | 34 | 3576     | 0.2004          | 0.2719            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 95 | 40902    | 0.2004          | 0.1964            |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 95 | 20203    | 0.2004          | 0.2204            |       |
| 22 Acetone                    | 43  | 5.888     | 5.856         | 0.032         | 99 | 32938    | 0.2004          | 0.4219            |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006        | 99 | 44748    | 0.2004          | 0.1898            |       |
| 24 Isopropyl alcohol          | 45  | 6.140     | 6.097         | 0.043         | 99 | 12784    | 0.2004          | 0.1482            |       |
| 25 3-Chloro-1-propene         | 41  | 6.300     | 6.311         | -0.011        | 97 | 13655    | 0.2004          | 0.2002            |       |
| 26 Acetonitrile               | 41  | 6.391     | 6.423         | -0.032        | 52 | 1036     | 0.2004          | 0.0363            |       |
| 27 Methylene Chloride         | 49  | 6.562     | 6.557         | 0.005         | 96 | 18915    | 0.2004          | 0.2286            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.830     | 6.771         | 0.059         | 90 | 17479    | 0.2004          | 0.1325            |       |
| 29 Methyl tert-butyl ether    | 73  | 6.969     | 6.937         | 0.032         | 85 | 34053    | 0.2004          | 0.1911            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.937     | 6.947         | -0.010        | 95 | 22236    | 0.2004          | 0.2002            |       |
| 32 Acrylonitrile              | 53  | 7.087     | 7.076         | 0.010         | 69 | 3812     | 0.2004          | 0.1223            |       |
| 33 Hexane                     | 57  | 7.279     | 7.290         | -0.011        | 92 | 17454    | 0.2004          | 0.1971            |       |
| 34 1,1-Dichloroethane         | 63  | 7.723     | 7.728         | -0.005        | 98 | 26553    | 0.2004          | 0.1852            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.809     | 7.793          | 0.016         | 97 | 16990    | 0.2004          | 0.1567            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.724     | 8.734          | -0.010        | 91 | 16381    | 0.2004          | 0.1886            |       |
| 38 2-Butanone (MEK)            | 72  | 8.841     | 8.793          | 0.048         | 99 | 5466     | 0.2004          | 0.1951            | M     |
| 39 Ethyl acetate               | 88  | 8.868     | 8.831          | 0.037         | 93 | 179      | 0.2004          | 0.0448            |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.162          | -0.005        | 76 | 1002822  | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.242     | 9.210          | 0.032         | 71 | 4668     | 0.2004          | 0.0924            |       |
| 42 Chloroform                  | 83  | 9.269     | 9.275          | -0.006        | 96 | 40034    | 0.2004          | 0.1911            |       |
| 43 Cyclohexane                 | 84  | 9.531     | 9.537          | -0.006        | 95 | 20662    | 0.2004          | 0.2032            | M     |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.547          | -0.005        | 94 | 45084    | 0.2004          | 0.1832            | M     |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |          | 0.4009          | 0.3888            |       |
| 45 Carbon tetrachloride        | 117 | 9.783     | 9.788          | -0.005        | 97 | 44908    | 0.2004          | 0.1708            |       |
| 46 Isooctane                   | 57  | 10.205    | 10.205         | 0.000         | 96 | 62654    | 0.2004          | 0.1863            |       |
| 47 Benzene                     | 78  | 10.221    | 10.221         | 0.000         | 97 | 43168    | 0.2004          | 0.1830            |       |
| 48 1,2-Dichloroethane          | 62  | 10.393    | 10.387         | 0.006         | 97 | 24972    | 0.2004          | 0.1831            |       |
| 49 n-Heptane                   | 43  | 10.580    | 10.575         | 0.005         | 82 | 21959    | 0.2004          | 0.1810            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.019    | 11.024         | -0.005        | 94 | 4429103  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.511    | 11.463         | 0.048         | 73 | 7536     | 0.2004          | 0.1889            |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.489         | -0.005        | 95 | 27569    | 0.2004          | 0.1786            |       |
| 54 1,2-Dichloropropane         | 63  | 12.024    | 12.024         | 0.000         | 90 | 14866    | 0.2004          | 0.1788            | M     |
| 55 Methyl methacrylate         | 69  | 12.228    | 12.217         | 0.011         | 67 | 7691     | 0.2004          | 0.1120            |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0  | 23121576 | 0.2004          | 0                 |       |
| 57 Dibromomethane              | 174 | 12.276    | 12.276         | 0.000         | 95 | 24779    | 0.2004          | 0.1742            | M     |
| 56 1,4-Dioxane                 | 88  | 12.351    | 12.281         | 0.070         | 72 | 6263     | 0.2004          | 0.1445            |       |
| 58 Dichlorobromomethane        | 83  | 12.565    | 12.565         | 0.000         | 98 | 39756    | 0.2004          | 0.1659            | M     |
| 60 cis-1,3-Dichloropropene     | 75  | 13.479    | 13.479         | 0.000         | 94 | 25306    | 0.2004          | 0.1705            | M     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.827    | 13.795         | 0.032         | 99 | 19886    | 0.2004          | 0.1297            |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 91 | 27235    | 0.2004          | 0.1629            | M     |
| 64 n-Octane                    | 43  | 14.164    | 14.153         | 0.011         | 88 | 30772    | 0.2004          | 0.1724            |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0  | 25371200 | 0.2004          | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 90 | 23930    | 0.2004          | 0.1640            |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.025    | 15.031         | -0.006        | 97 | 15065    | 0.2004          | 0.1665            |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143         | 0.000         | 94 | 34467    | 0.2004          | 0.1721            |       |
| 69 2-Hexanone                  | 43  | 15.539    | 15.518         | 0.021         | 94 | 19848    | 0.2004          | 0.1350            |       |
| 71 Chlorodibromomethane        | 129 | 15.785    | 15.790         | -0.005        | 95 | 35343    | 0.2004          | 0.1461            |       |
| 72 Ethylene Dibromide          | 107 | 16.047    | 16.053         | -0.006        | 96 | 27011    | 0.2004          | 0.1478            |       |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 86 | 4128563  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 92 | 40954    | 0.2004          | 0.1592            |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 98 | 59235    | 0.2004          | 0.1573            |       |
| 77 n-Nonane                    | 57  | 17.363    | 17.358         | 0.005         | 88 | 27380    | 0.2004          | 0.1663            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0  | 48888    | 0.4009          | 0.3203            |       |
| 79 o-Xylene                    | 106 | 18.299    | 18.294         | 0.005         | 96 | 22469    | 0.2004          | 0.1549            | M     |
| 80 Styrene                     | 104 | 18.348    | 18.348         | 0.000         | 96 | 28896    | 0.2004          | 0.1301            |       |
| 81 Bromoform                   | 173 | 18.781    | 18.786         | -0.005        | 94 | 29102    | 0.2004          | 0.1330            | M     |
| 82 Isopropylbenzene            | 105 | 19.054    | 19.048         | 0.006         | 96 | 61695    | 0.2004          | 0.1454            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          | 0.6013          | 0.4751            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.765    | 19.771         | -0.006        | 96 | 37089    | 0.2004          | 0.1602            |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 99 | 73558    | 0.2004          | 0.1456            |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.862    | 19.867         | -0.005        | 94 | 32800    | 0.2004          | 0.1669            |       |
| 89 2-Chlorotoluene             | 91  | 20.049    | 20.054         | -0.005        | 96 | 59613    | 0.2004          | 0.1563            |       |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060         | 0.000         | 86 | 59515    | 0.2004          | 0.1384            |       |
| 87 n-Decane                    | 57  | 20.081    | 20.086         | -0.005        | 93 | 27583    | 0.2004          | 0.1354            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.177         | 0.000         | 92 | 53306    | 0.2004          | 0.1449            |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.578    | 20.573        | 0.005         | 83 | 20195    | 0.2004          | 0.1168            |       |
| 92 tert-Butylbenzene       | 119 | 20.696    | 20.702        | -0.006        | 92 | 48103    | 0.2004          | 0.1398            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.808    | 20.803        | 0.005         | 98 | 51172    | 0.2004          | 0.1410            |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 71845    | 0.2004          | 0.1408            |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 95 | 53198    | 0.2004          | 0.1216            |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.274    | 21.279        | -0.005        | 88 | 44349    | 0.2004          | 0.1507            |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.418    | 21.424        | -0.006        | 94 | 42712    | 0.2004          | 0.1518            |       |
| 98 Benzyl chloride         | 91  | 21.622    | 21.627        | -0.005        | 97 | 44697    | 0.2004          | 0.1287            |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 97 | 54995    | 0.2004          | 0.1379            |       |
| 99 Undecane                | 57  | 21.916    | 21.911        | 0.005         | 94 | 25782    | 0.2004          | 0.1149            |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 94 | 41264    | 0.2004          | 0.1526            |       |
| 102 Dodecane               | 57  | 23.441    | 23.441        | 0.000         | 94 | 22457    | 0.2004          | 0.1250            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.350    | 24.345        | 0.005         | 93 | 29589    | 0.2004          | 0.1456            |       |
| 104 Hexachlorobutadiene    | 225 | 24.543    | 24.537        | 0.006         | 95 | 35418    | 0.2004          | 0.1752            | M     |
| 105 Naphthalene            | 128 | 24.789    | 24.783        | 0.006         | 98 | 58816    | 0.2004          | 0.1493            |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 92 | 27385    | 0.2004          | 0.1560            |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

ATTO15CAL1w\_00197

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D

Injection Date: 27-Nov-2018 21:13:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

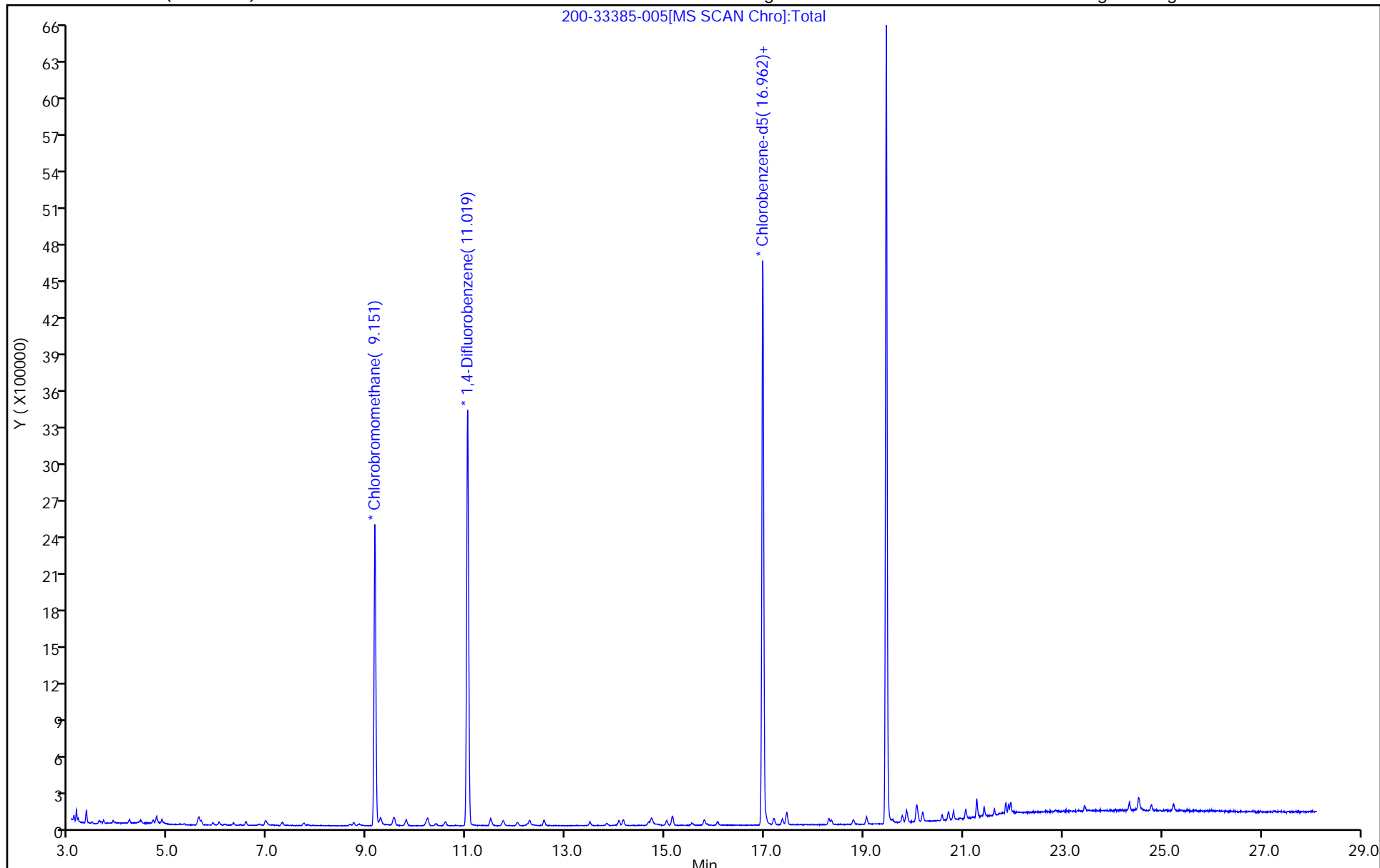
ALS Bottle#: 4

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

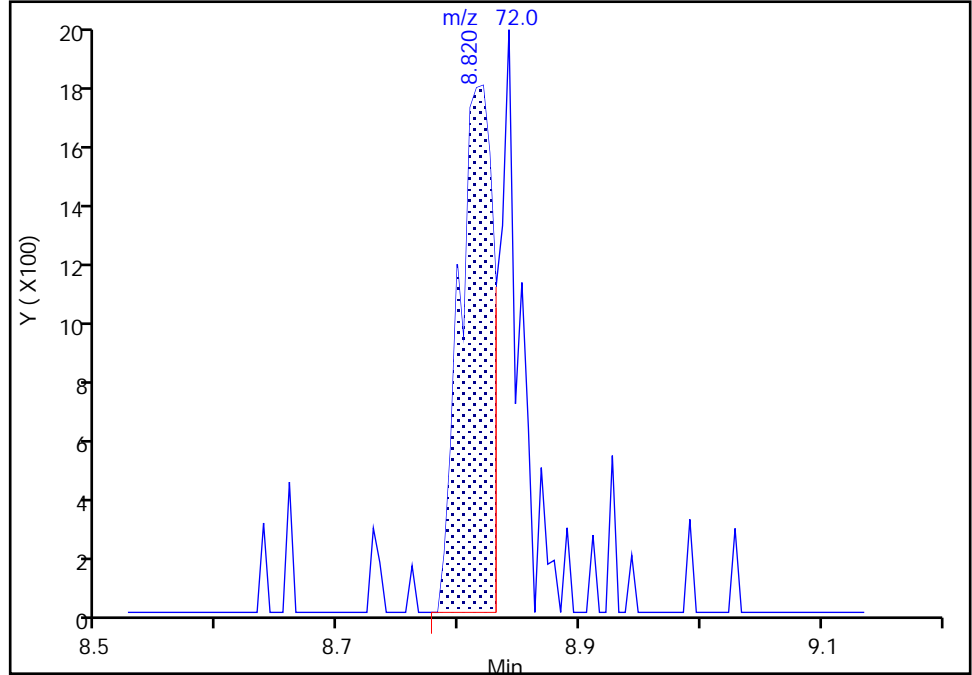
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

38 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

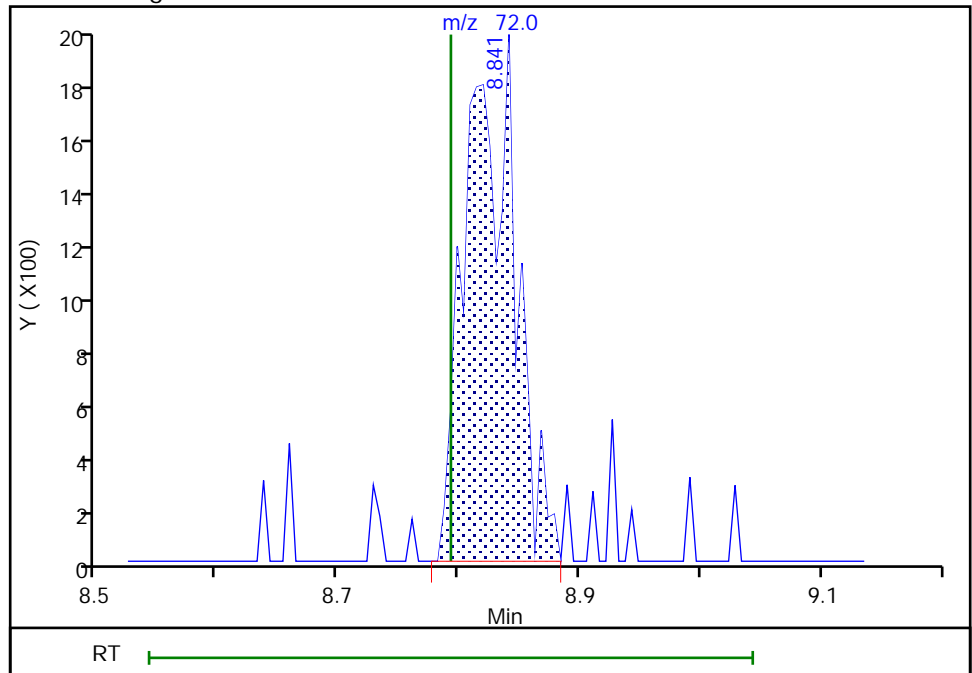
RT: 8.82  
Area: 3399  
Amount: 0.121327  
Amount Units: ppb v/v

Processing Integration Results



RT: 8.84  
Area: 5466  
Amount: 0.195108  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:07:33  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

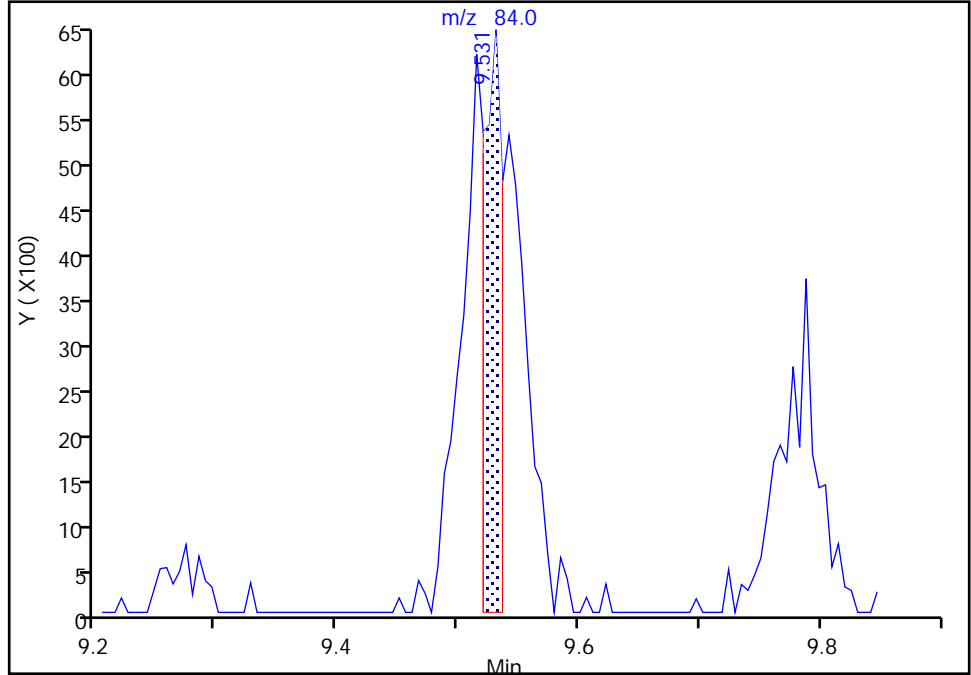
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Signal: 1

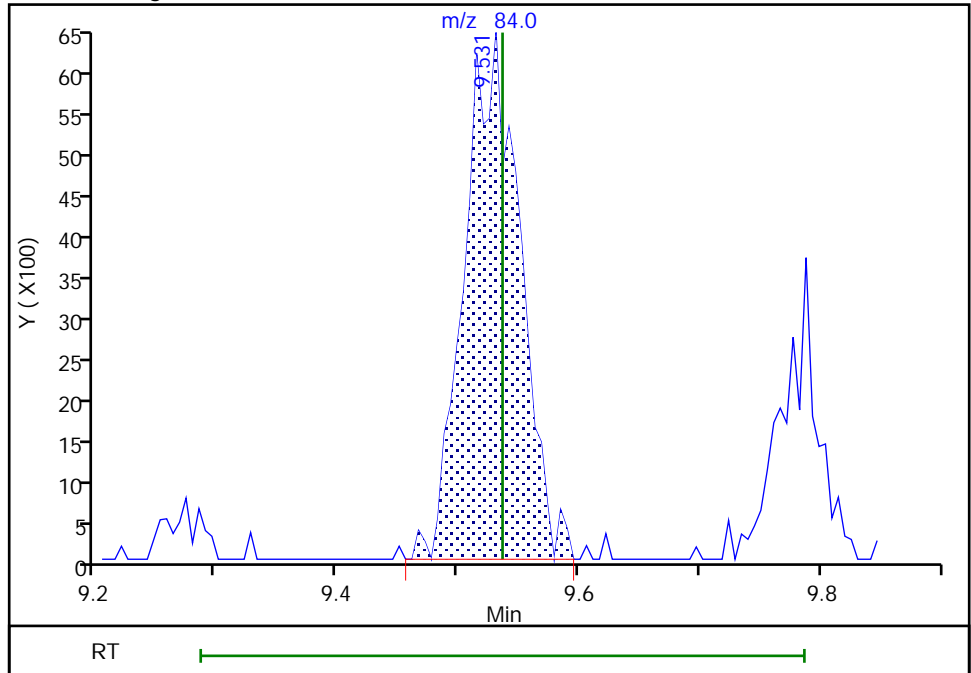
RT: 9.53  
Area: 7061  
Amount: 0.076777  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.53  
Area: 20662  
Amount: 0.203243  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:09:09  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

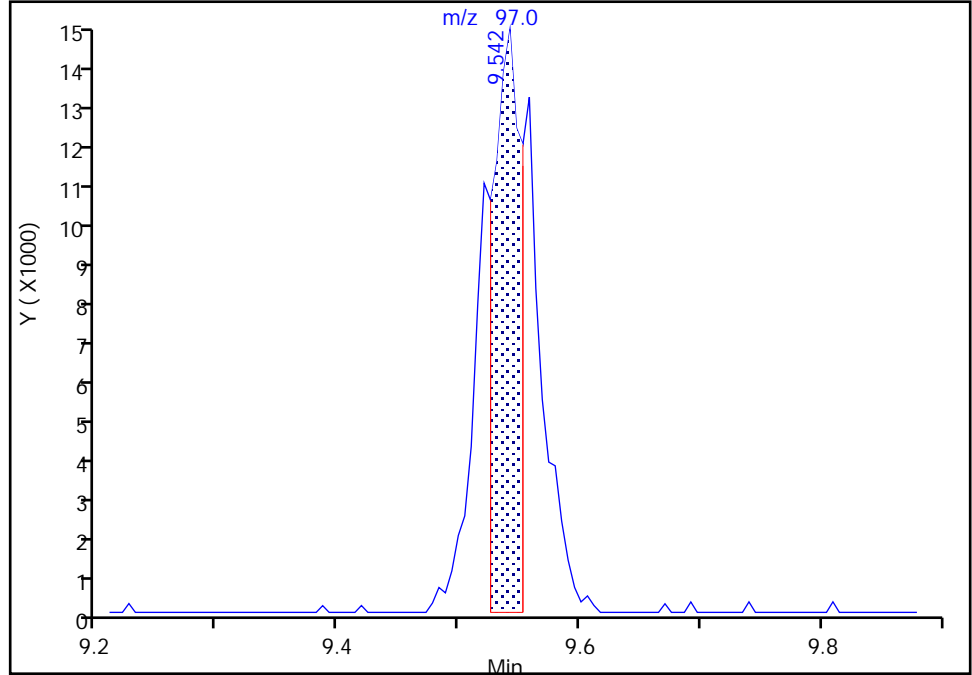
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

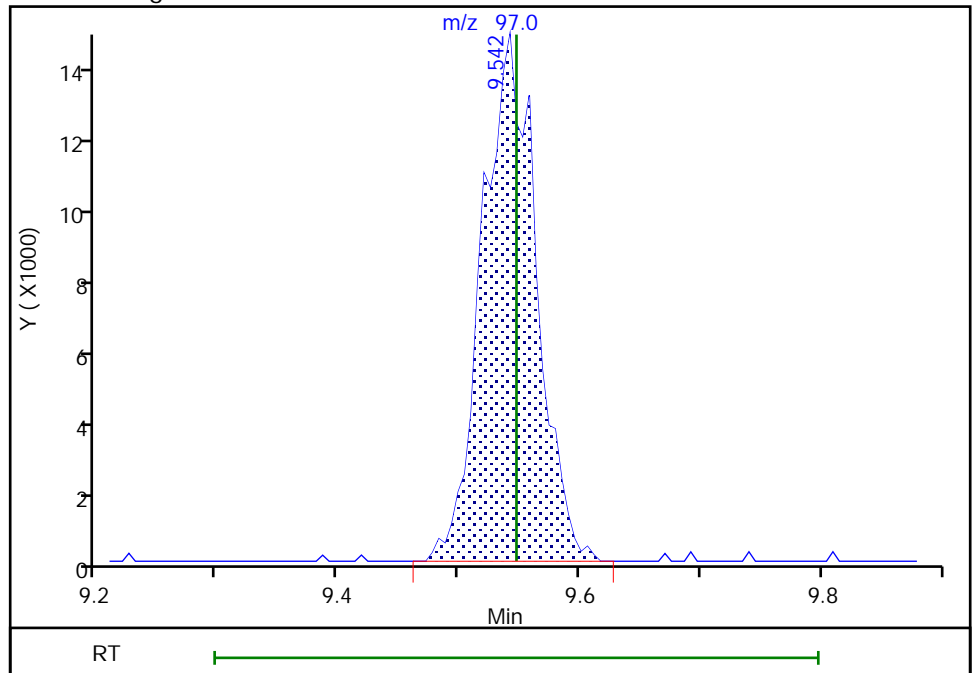
RT: 9.54  
Area: 23403  
Amount: 0.101467  
Amount Units: ppb v/v

Processing Integration Results



RT: 9.54  
Area: 45084  
Amount: 0.183194  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:09:44  
Audit Action: Manually Integrated

Audit Reason: Split Peak



TestAmerica Burlington

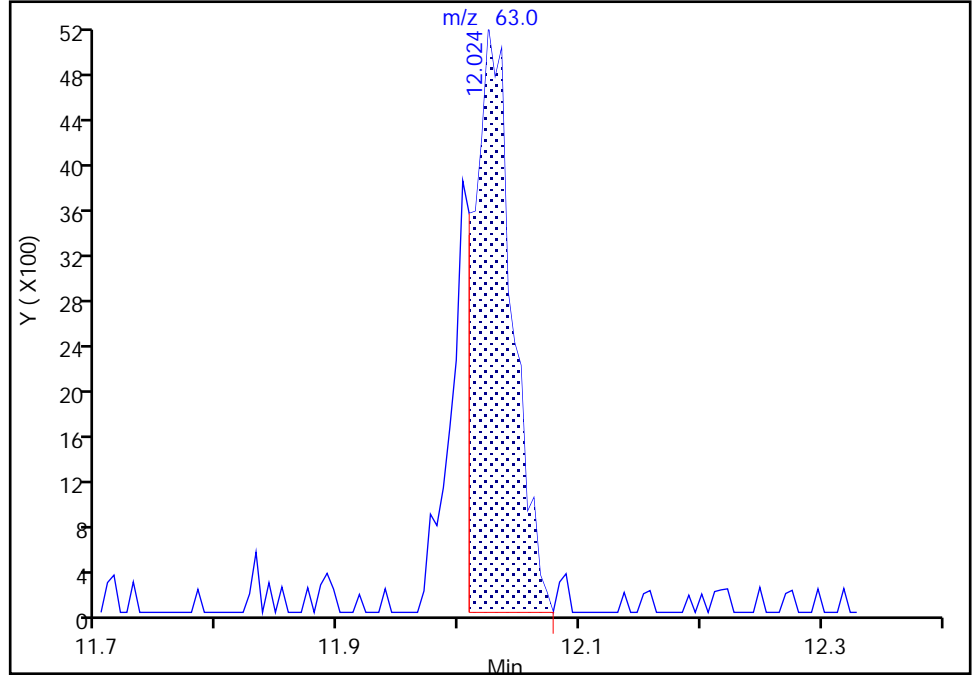
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

54 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

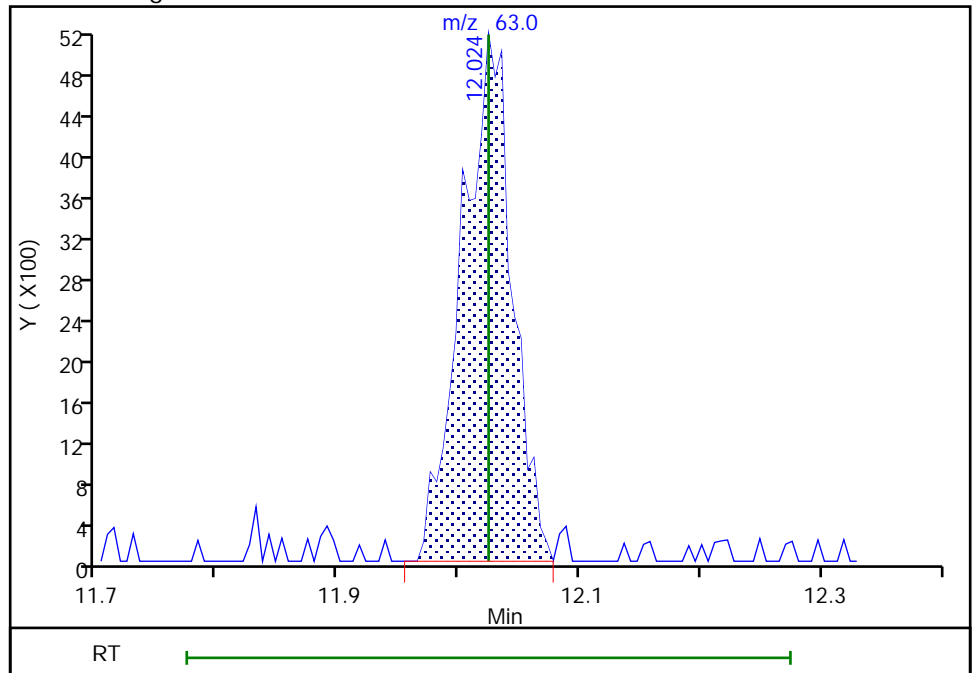
RT: 12.02  
Area: 11477  
Amount: 0.142922  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.02  
Area: 14866  
Amount: 0.178798  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:10:41  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

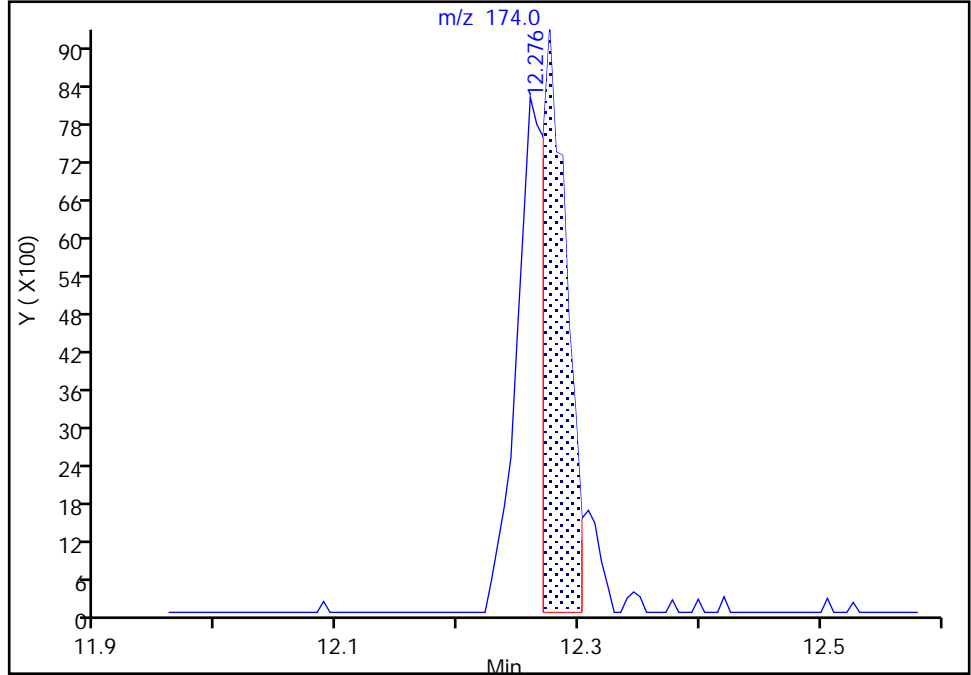
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

57 Dibromomethane, CAS: 74-95-3

Signal: 1

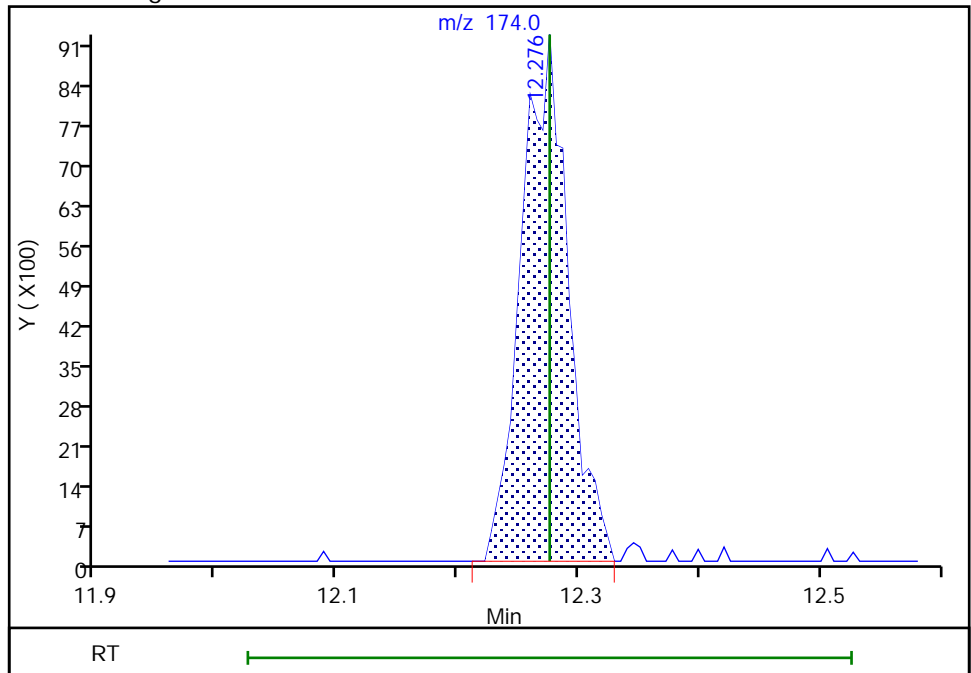
RT: 12.28  
Area: 13033  
Amount: 0.096605  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.28  
Area: 24779  
Amount: 0.174212  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:11:24  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

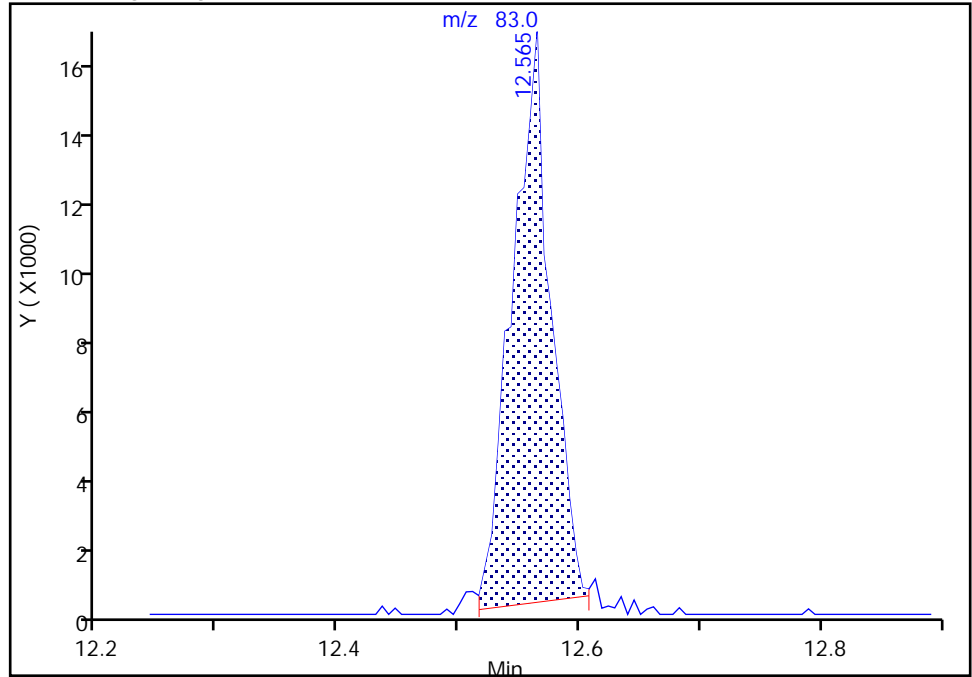
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

58 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

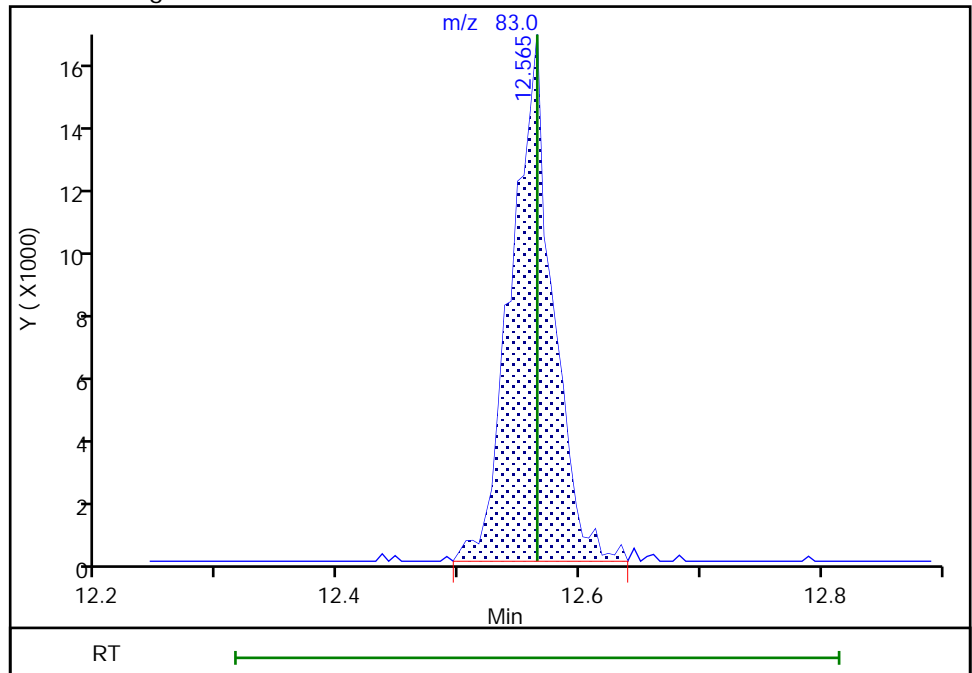
RT: 12.56  
Area: 36603  
Amount: 0.154163  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.56  
Area: 39756  
Amount: 0.165873  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:12:31  
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Burlington

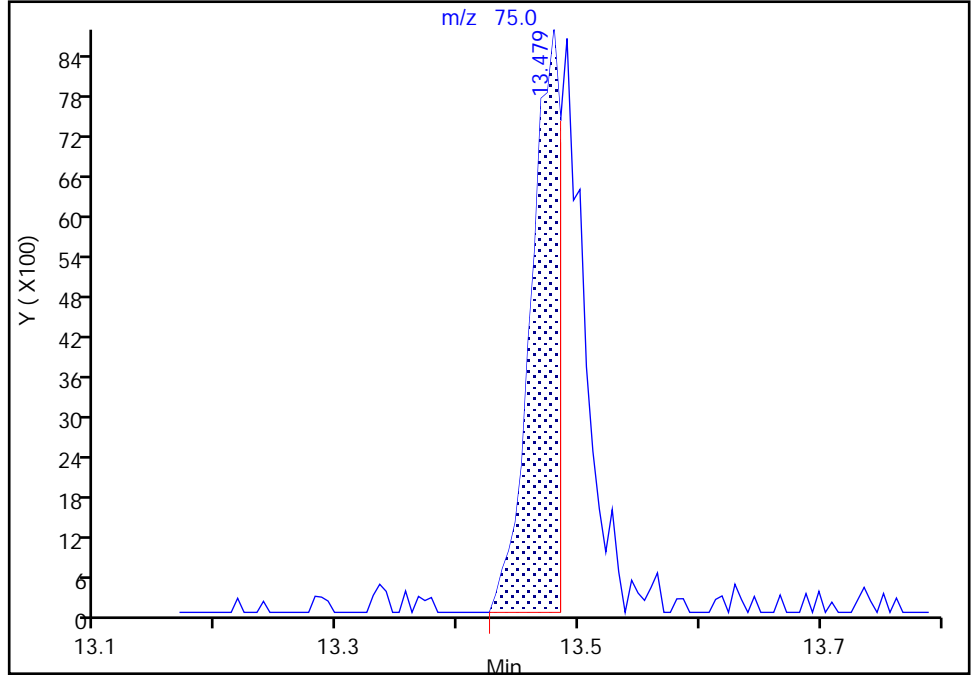
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

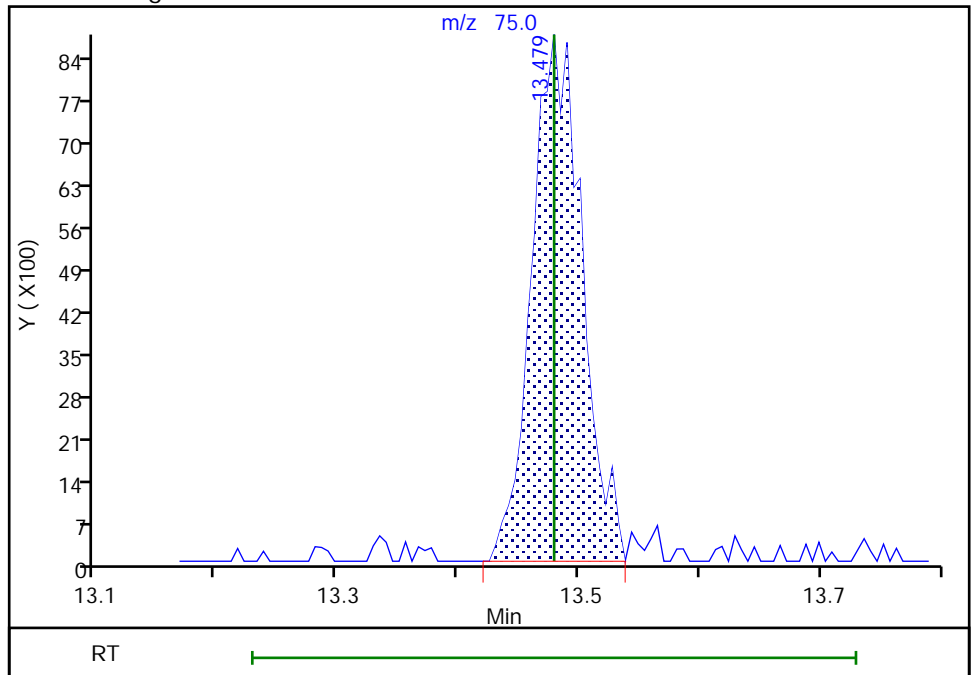
RT: 13.48  
Area: 15028  
Amount: 0.106532  
Amount Units: ppb v/v

Processing Integration Results



RT: 13.48  
Area: 25306  
Amount: 0.170536  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:13:19  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

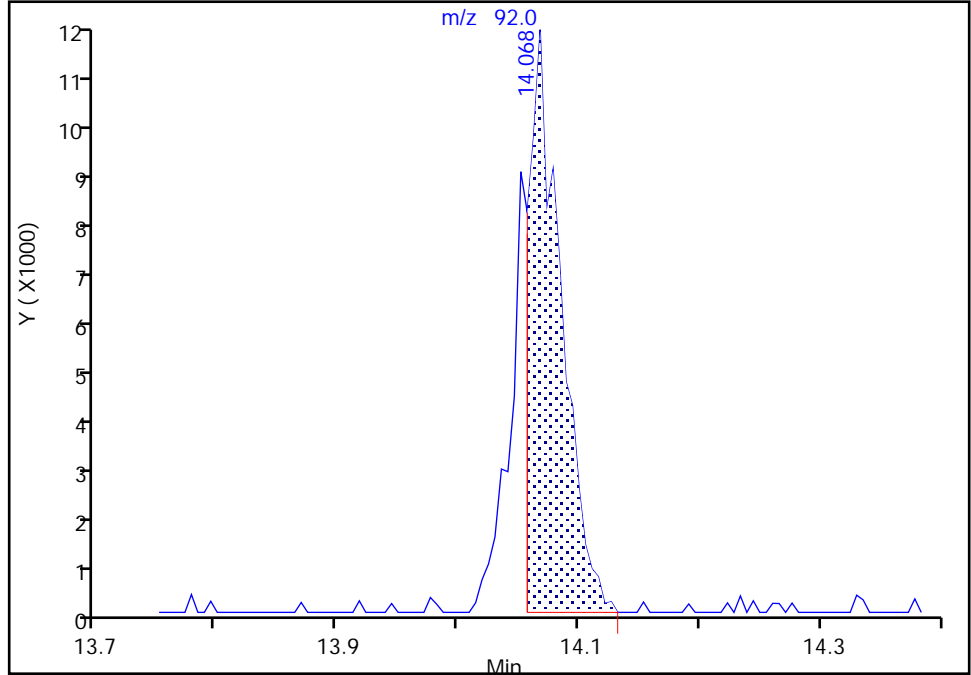
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Signal: 1

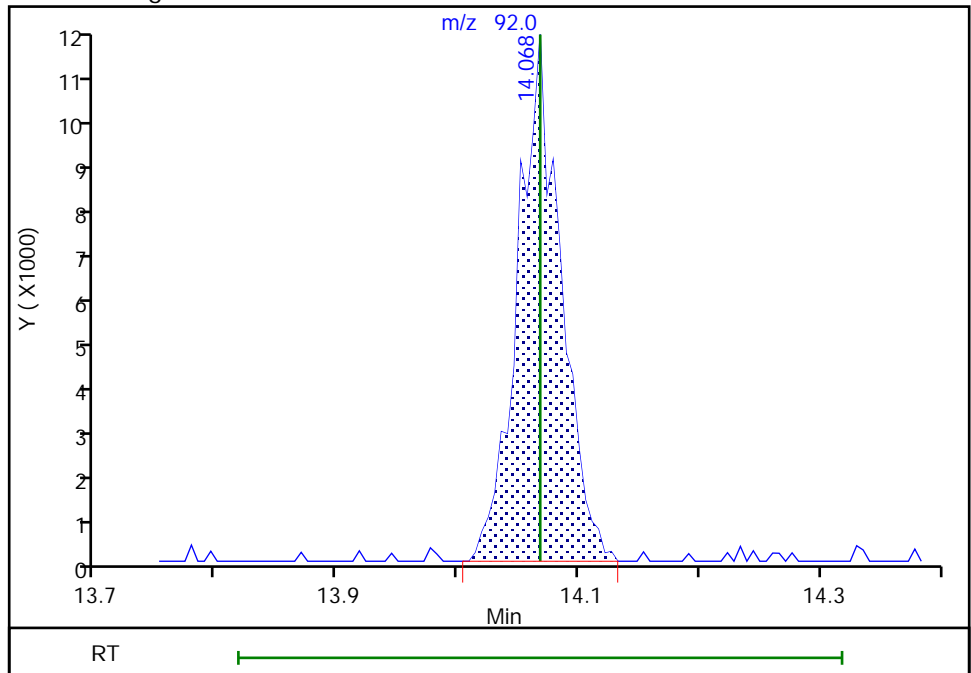
RT: 14.07  
Area: 20520  
Amount: 0.126316  
Amount Units: ppb v/v

Processing Integration Results



RT: 14.07  
Area: 27235  
Amount: 0.162855  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:13:48  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

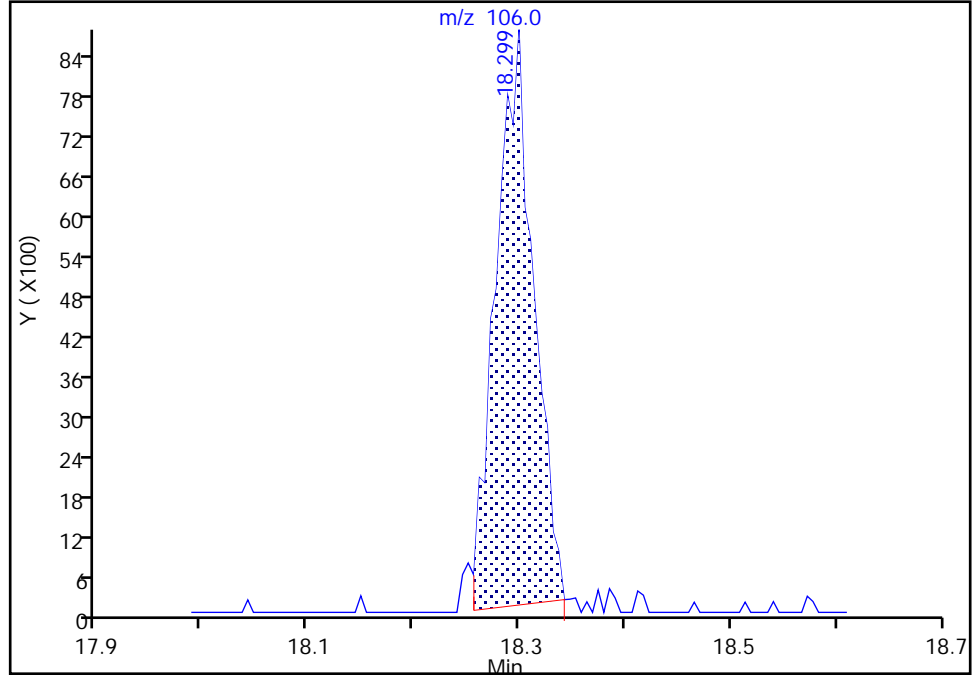
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Signal: 1

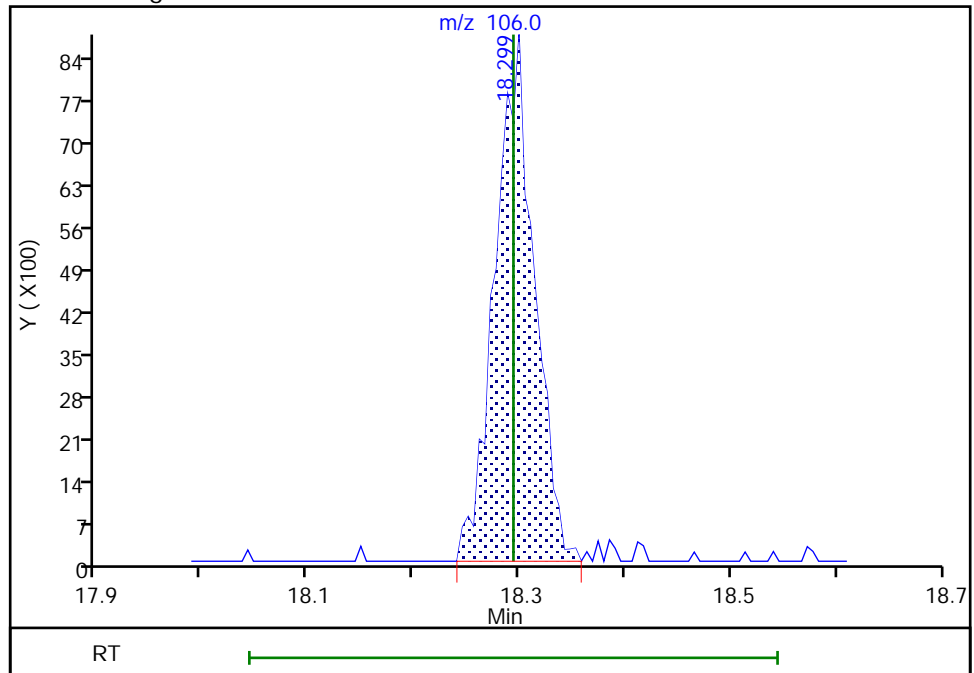
RT: 18.30  
Area: 21314  
Amount: 0.147748  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.30  
Area: 22469  
Amount: 0.154871  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:15:16  
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Burlington

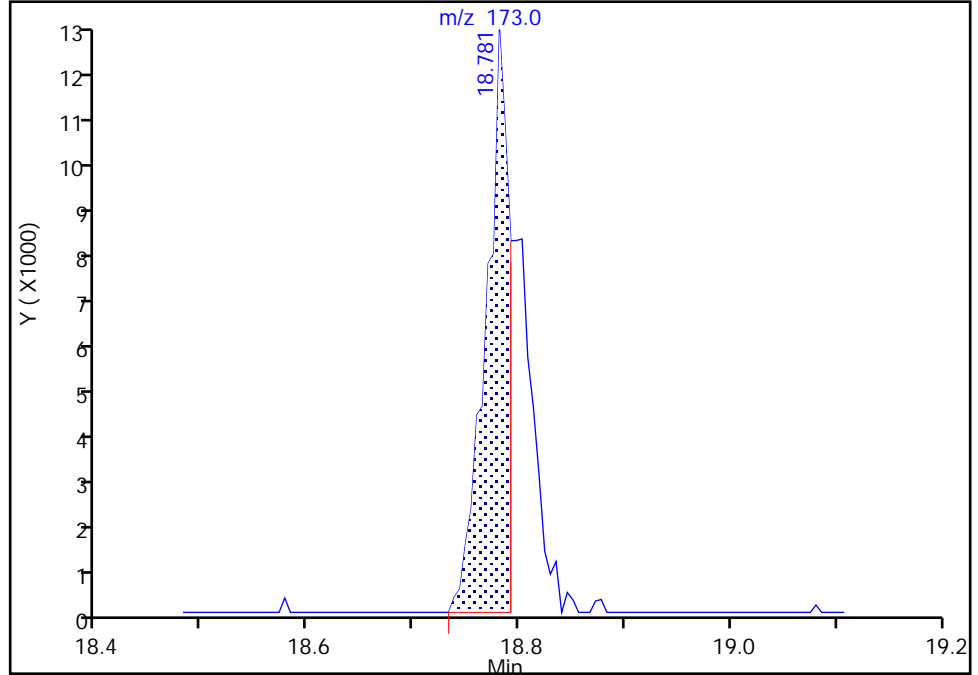
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Bromoform, CAS: 75-25-2

Signal: 1

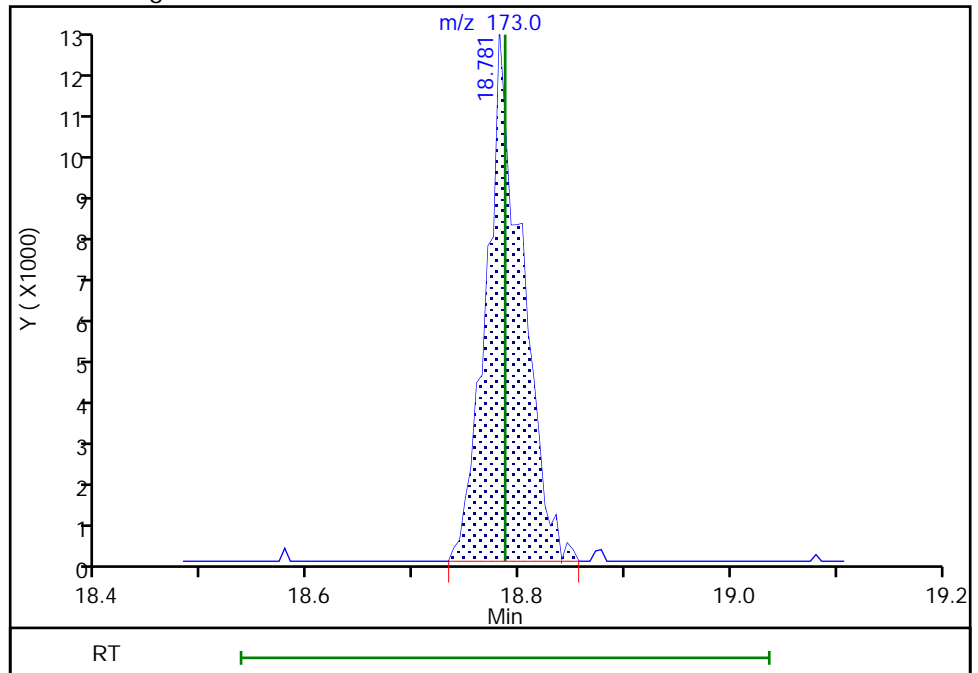
RT: 18.78  
Area: 18747  
Amount: 0.088645  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.78  
Area: 29102  
Amount: 0.132969  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:15:51  
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Burlington

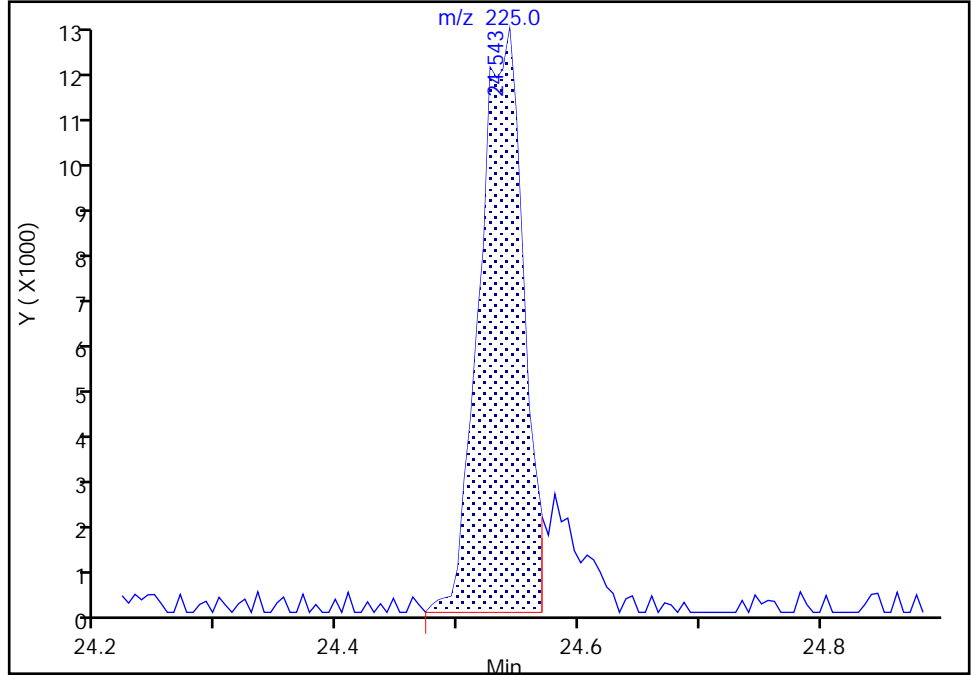
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-005.D  
Injection Date: 27-Nov-2018 21:13:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

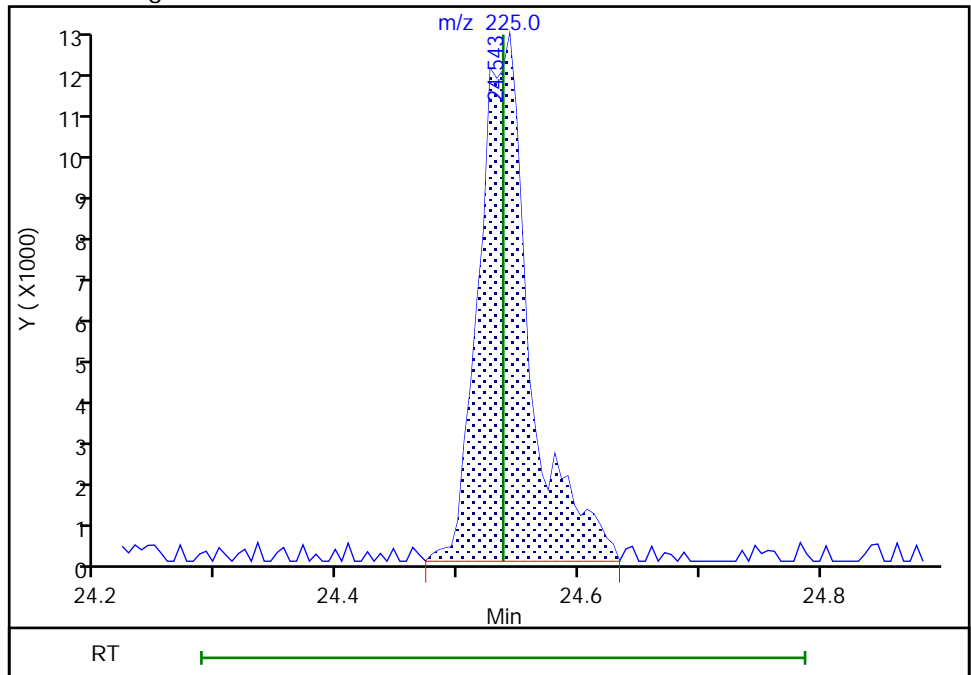
RT: 24.54  
Area: 30808  
Amount: 0.154914  
Amount Units: ppb v/v

Processing Integration Results



RT: 24.54  
Area: 35418  
Amount: 0.175201  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:16:48  
Audit Action: Manually Integrated

Audit Reason: Split Peak



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D

Lims ID: ic

Client ID:

Sample Type: IC

Calib Level: 3

Inject. Date: 27-Nov-2018 22:03:30

ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

Sample Info: 200-0033385-006

Operator ID: vtp

Instrument ID: CHG.i

Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m

Limit Group: AI\_TO15\_ICAL

Last Update: 28-Nov-2018 11:37:34

Calib Date: 28-Nov-2018 02:15:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm)

Det: MS SCAN

Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 09:31:19

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 96  | 46125    | 0.5005          | 0.6574            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99  | 228414   | 0.5005          | 0.6024            |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.176         | 0.005         | 96  | 96426    | 0.5005          | 0.5974            |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.336     | 3.342         | -0.006        | 91  | 171371   | 0.5005          | 0.6006            |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 98  | 42138    | 0.5005          | 0.5711            |       |
| 6 Butane                      | 43  | 3.598     | 3.604         | -0.006        | 96  | 59450    | 0.5005          | 0.5986            |       |
| 7 Vinyl chloride              | 62  | 3.631     | 3.636         | -0.005        | 97  | 49384    | 0.5005          | 0.5561            |       |
| 8 Butadiene                   | 54  | 3.684     | 3.689         | -0.005        | 90  | 33319    | 0.5005          | 0.6030            |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 98  | 58765    | 0.5005          | 0.5731            |       |
| 11 Chloroethane               | 64  | 4.379     | 4.380         | -0.001        | 100 | 20807    | 0.5005          | 0.6088            |       |
| 12 2-Methylbutane             | 43  | 4.438     | 4.438         | 0.000         | 86  | 38513    | 0.5005          | 0.5874            |       |
| 13 Vinyl bromide              | 106 | 4.684     | 4.685         | 0.000         | 97  | 60365    | 0.5005          | 0.5955            |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 181225   | 0.5005          | 0.6048            |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 98  | 63337    | 0.5005          | 0.6382            |       |
| 17 Ethanol                    | 45  | 5.214     | 5.209         | 0.005         | 97  | 130151   | 5.01            | 6.33              |       |
| 18 Ethyl ether                | 59  | 5.300     | 5.278         | 0.022         | 94  | 21321    | 0.5005          | 0.6125            |       |
| 19 Acrolein                   | 56  | 5.674     | 5.594         | 0.080         | 31  | 1393     | 0.5005          | 0.1045            |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610     | 5.605         | 0.005         | 98  | 130182   | 0.5005          | 0.6168            |       |
| 21 1,1-Dichloroethene         | 96  | 5.653     | 5.658         | -0.005        | 97  | 50516    | 0.5005          | 0.5437            |       |
| 22 Acetone                    | 43  | 5.872     | 5.856         | 0.016         | 98  | 91069    | 0.5005          | 1.15              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006        | 99  | 134380   | 0.5005          | 0.5623            |       |
| 24 Isopropyl alcohol          | 45  | 6.118     | 6.097         | 0.021         | 98  | 38937    | 0.5005          | 0.4453            |       |
| 25 3-Chloro-1-propene         | 41  | 6.300     | 6.311         | -0.011        | 92  | 44893    | 0.5005          | 0.6495            |       |
| 26 Acetonitrile               | 41  | 6.423     | 6.423         | 0.000         | 95  | 18640    | 0.5005          | 0.6442            |       |
| 27 Methylene Chloride         | 49  | 6.551     | 6.557         | -0.006        | 90  | 51169    | 0.5005          | 0.6103            |       |
| 28 2-Methyl-2-propanol        | 59  | 6.803     | 6.771         | 0.032         | 95  | 52325    | 0.5005          | 0.3914            |       |
| 29 Methyl tert-butyl ether    | 73  | 6.947     | 6.937         | 0.010         | 95  | 114110   | 0.5005          | 0.6318            |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 97  | 69952    | 0.5005          | 0.6214            |       |
| 32 Acrylonitrile              | 53  | 7.076     | 7.076         | 0.000         | 99  | 19230    | 0.5005          | 0.6089            | M     |
| 33 Hexane                     | 57  | 7.284     | 7.290         | -0.006        | 91  | 53074    | 0.5005          | 0.5915            |       |
| 34 1,1-Dichloroethane         | 63  | 7.718     | 7.728         | -0.010        | 99  | 83323    | 0.5005          | 0.5736            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 71882    | 0.5005          | 0.6541            |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.729     | 8.734          | -0.005        | 93  | 51366    | 0.5005          | 0.5837            |       |
| 38 2-Butanone (MEK)            | 72  | 8.798     | 8.793          | 0.005         | 98  | 19113    | 0.5005          | 0.6732            |       |
| 39 Ethyl acetate               | 88  | 8.814     | 8.831          | -0.017        | 93  | 1325     | 0.5005          | 0.3273            |       |
| * 40 Chlorobromomethane        | 128 | 9.151     | 9.162          | -0.011        | 76  | 1016314  | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.237     | 9.210          | 0.027         | 93  | 32954    | 0.5005          | 0.6393            |       |
| 42 Chloroform                  | 83  | 9.274     | 9.275          | -0.001        | 96  | 128667   | 0.5005          | 0.6061            |       |
| 43 Cyclohexane                 | 84  | 9.531     | 9.537          | -0.006        | 68  | 58864    | 0.5005          | 0.5676            |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.547          | -0.005        | 94  | 143792   | 0.5005          | 0.5727            |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |          | 1.00            | 1.21              |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 98  | 150815   | 0.5005          | 0.5622            |       |
| 46 Isooctane                   | 57  | 10.205    | 10.205         | 0.000         | 97  | 194884   | 0.5005          | 0.5681            |       |
| 47 Benzene                     | 78  | 10.227    | 10.221         | 0.006         | 96  | 148640   | 0.5005          | 0.6178            |       |
| 48 1,2-Dichloroethane          | 62  | 10.382    | 10.387         | -0.005        | 99  | 84959    | 0.5005          | 0.6105            |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.575         | -0.006        | 94  | 72356    | 0.5005          | 0.5845            |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.018    | 11.024         | -0.006        | 94  | 4518593  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.495    | 11.463         | 0.032         | 38  | 16536    | 0.5005          | 0.4062            |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.489         | -0.005        | 95  | 78684    | 0.5005          | 0.4997            |       |
| 54 1,2-Dichloropropane         | 63  | 12.014    | 12.024         | -0.010        | 84  | 51479    | 0.5005          | 0.6069            | M     |
| 55 Methyl methacrylate         | 69  | 12.211    | 12.217         | -0.006        | 90  | 34488    | 0.5005          | 0.4923            |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 37152542 | 0.5005          | 0                 |       |
| 57 Dibromomethane              | 174 | 12.270    | 12.276         | -0.006        | 94  | 71063    | 0.5005          | 0.4897            |       |
| 56 1,4-Dioxane                 | 88  | 12.335    | 12.281         | 0.053         | 85  | 21440    | 0.5005          | 0.4847            |       |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.565         | -0.006        | 98  | 131012   | 0.5005          | 0.5358            |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.474    | 13.479         | -0.005        | 95  | 80183    | 0.5005          | 0.5296            |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.811    | 13.795         | 0.016         | 96  | 63705    | 0.5005          | 0.4072            |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 95  | 99665    | 0.5005          | 0.6152            |       |
| 64 n-Octane                    | 43  | 14.153    | 14.153         | 0.000         | 92  | 102681   | 0.5005          | 0.5639            |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 47157359 | 0.5005          | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 98  | 78856    | 0.5005          | 0.5296            |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.020    | 15.031         | -0.011        | 96  | 52120    | 0.5005          | 0.5945            |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143         | 0.000         | 94  | 108407   | 0.5005          | 0.5589            |       |
| 69 2-Hexanone                  | 43  | 15.528    | 15.518         | 0.010         | 94  | 53132    | 0.5005          | 0.3732            |       |
| 71 Chlorodibromomethane        | 129 | 15.780    | 15.790         | -0.010        | 97  | 126722   | 0.5005          | 0.5409            |       |
| 72 Ethylene Dibromide          | 107 | 16.047    | 16.053         | -0.006        | 98  | 96147    | 0.5005          | 0.5432            |       |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 86  | 3999187  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.021    | 17.026         | -0.005        | 96  | 144447   | 0.5005          | 0.5797            |       |
| 76 Ethylbenzene                | 91  | 17.187    | 17.192         | -0.005        | 99  | 216811   | 0.5005          | 0.5943            |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 92  | 94114    | 0.5005          | 0.5901            |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.443    | 17.449         | -0.006        | 0   | 169987   | 1.00            | 1.15              |       |
| 79 o-Xylene                    | 106 | 18.294    | 18.294         | 0.000         | 98  | 80844    | 0.5005          | 0.5753            |       |
| 80 Styrene                     | 104 | 18.342    | 18.348         | -0.006        | 94  | 112030   | 0.5005          | 0.5207            |       |
| 81 Bromoform                   | 173 | 18.792    | 18.786         | 0.006         | 95  | 115114   | 0.5005          | 0.5430            |       |
| 82 Isopropylbenzene            | 105 | 19.048    | 19.048         | 0.000         | 97  | 233651   | 0.5005          | 0.5686            |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |          | 1.50            | 1.72              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 97  | 126803   | 0.5005          | 0.5656            |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 98  | 292366   | 0.5005          | 0.5975            |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.862    | 19.867         | -0.005        | 98  | 111994   | 0.5005          | 0.5885            |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 96  | 212485   | 0.5005          | 0.5750            |       |
| 88 4-Ethyltoluene              | 105 | 20.059    | 20.060         | -0.001        | 89  | 233789   | 0.5005          | 0.5612            |       |
| 87 n-Decane                    | 57  | 20.086    | 20.086         | 0.000         | 93  | 105294   | 0.5005          | 0.5337            |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.183    | 20.177         | 0.006         | 92  | 205318   | 0.5005          | 0.5761            |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 93 | 86259    | 0.5005          | 0.5152            |       |
| 92 tert-Butylbenzene       | 119 | 20.701    | 20.702        | -0.001        | 90 | 187237   | 0.5005          | 0.5616            |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 97 | 198359   | 0.5005          | 0.5641            |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 287732   | 0.5005          | 0.5821            |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | -0.001        | 97 | 234383   | 0.5005          | 0.5532            |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.279    | 21.279        | 0.000         | 98 | 147114   | 0.5005          | 0.5162            |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.418    | 21.424        | -0.006        | 95 | 143403   | 0.5005          | 0.5262            |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 98 | 180360   | 0.5005          | 0.5362            |       |
| 100 n-Butylbenzene         | 91  | 21.852    | 21.857        | -0.005        | 98 | 198746   | 0.5005          | 0.5145            |       |
| 99 Undecane                | 57  | 21.910    | 21.911        | -0.001        | 94 | 82623    | 0.5005          | 0.3803            |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 95 | 135642   | 0.5005          | 0.5179            |       |
| 102 Dodecane               | 57  | 23.440    | 23.441        | -0.001        | 93 | 57122    | 0.5005          | 0.3283            |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.339    | 24.345        | -0.006        | 95 | 73588    | 0.5005          | 0.3738            |       |
| 104 Hexachlorobutadiene    | 225 | 24.532    | 24.537        | -0.005        | 96 | 101589   | 0.5005          | 0.5188            |       |
| 105 Naphthalene            | 128 | 24.783    | 24.783        | 0.000         | 99 | 132543   | 0.5005          | 0.3473            |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 65637    | 0.5005          | 0.3860            |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL2w\_00271

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D

Injection Date: 27-Nov-2018 22:03:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 6

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

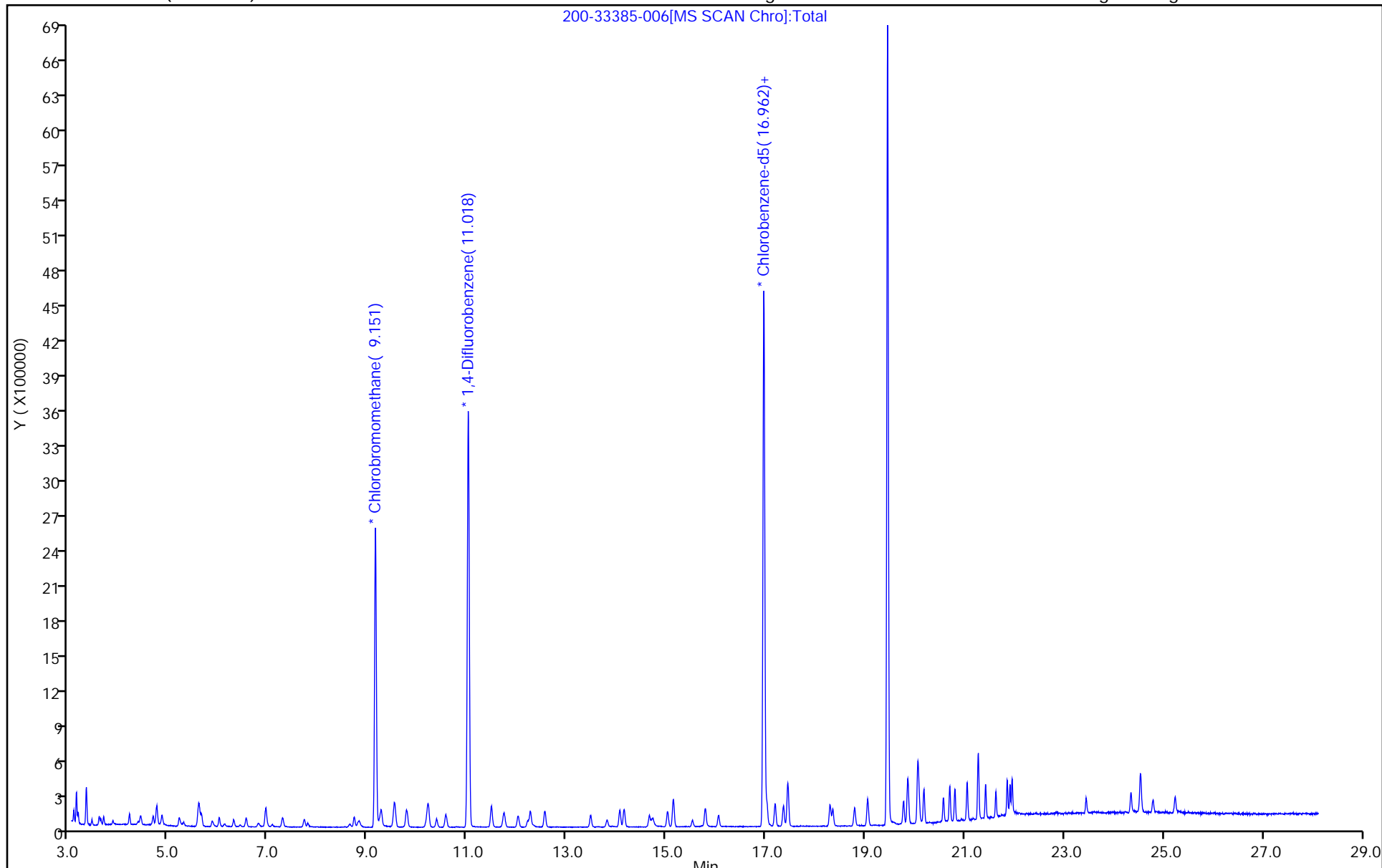
ALS Bottle#: 5

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

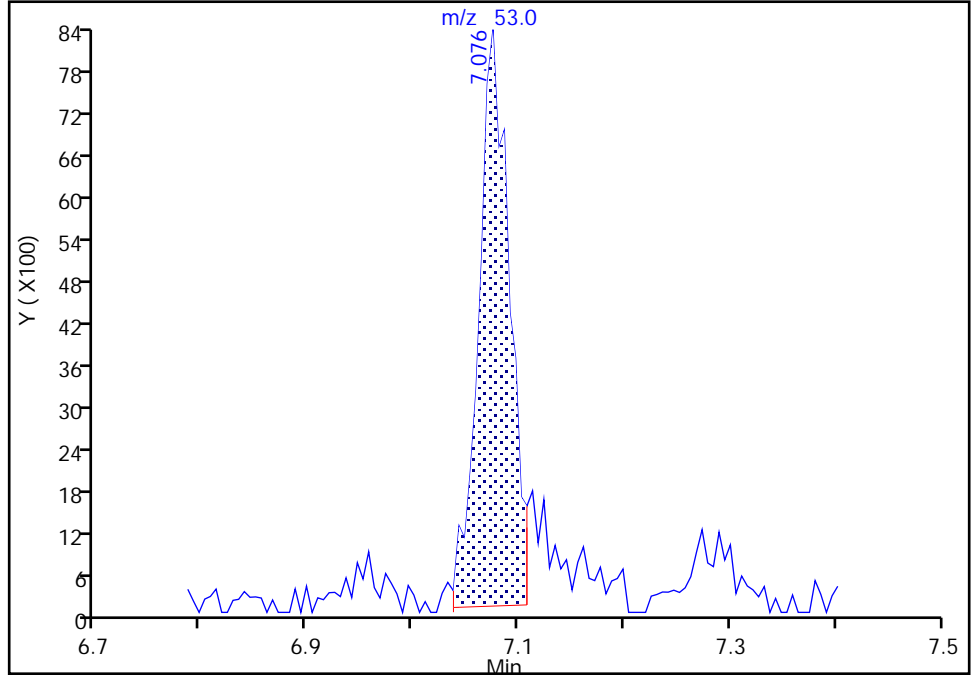
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D  
Injection Date: 27-Nov-2018 22:03:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

32 Acrylonitrile, CAS: 107-13-1

Signal: 1

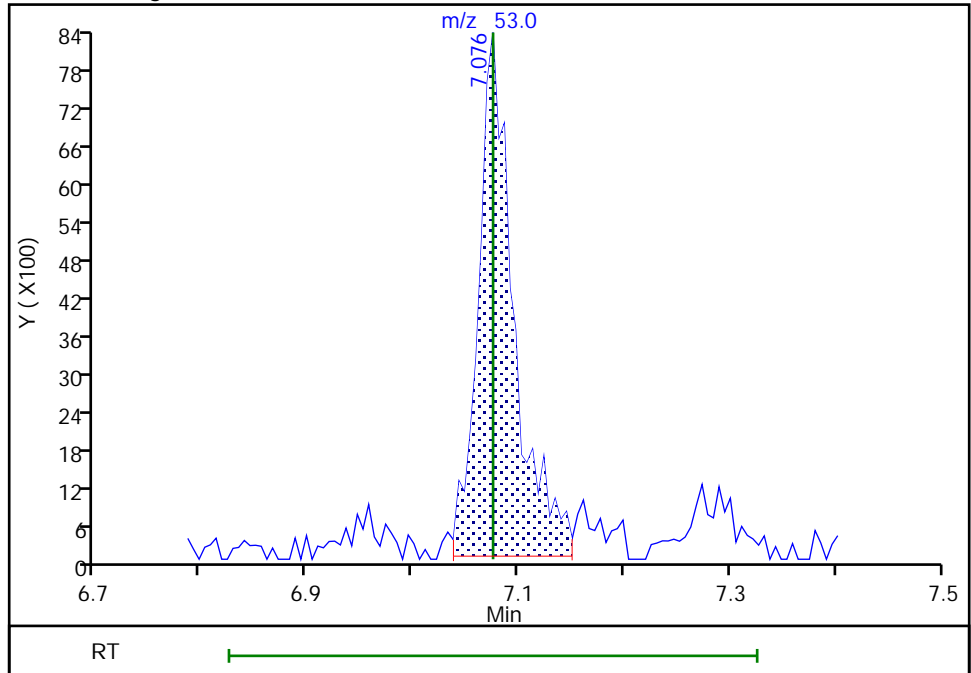
RT: 7.08  
Area: 16727  
Amount: 0.618941  
Amount Units: ppb v/v

Processing Integration Results



RT: 7.08  
Area: 19230  
Amount: 0.608887  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:19:13  
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Burlington

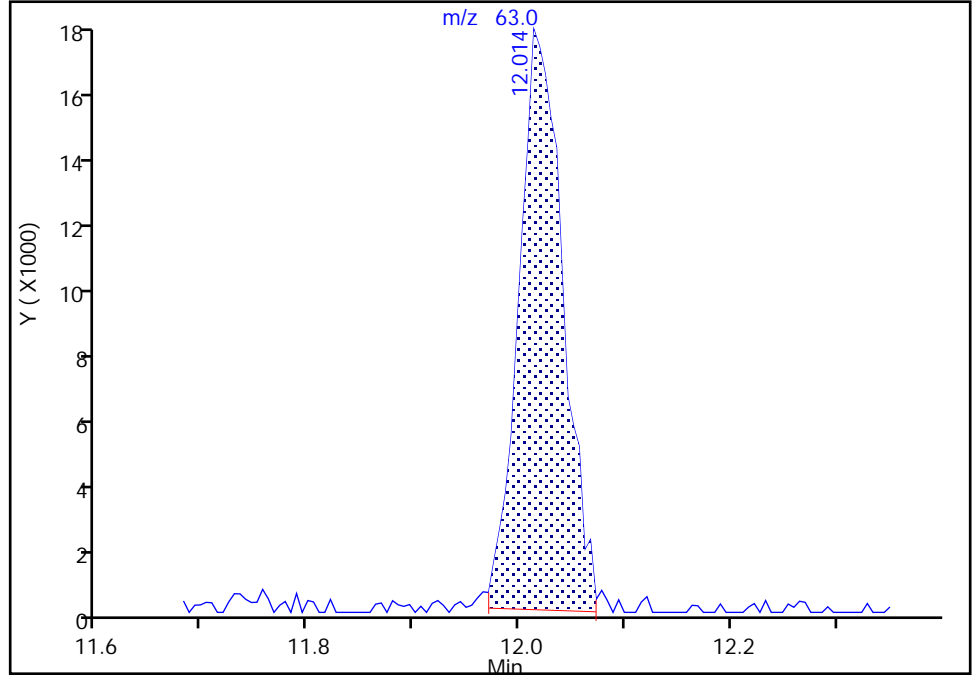
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-006.D  
Injection Date: 27-Nov-2018 22:03:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

54 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

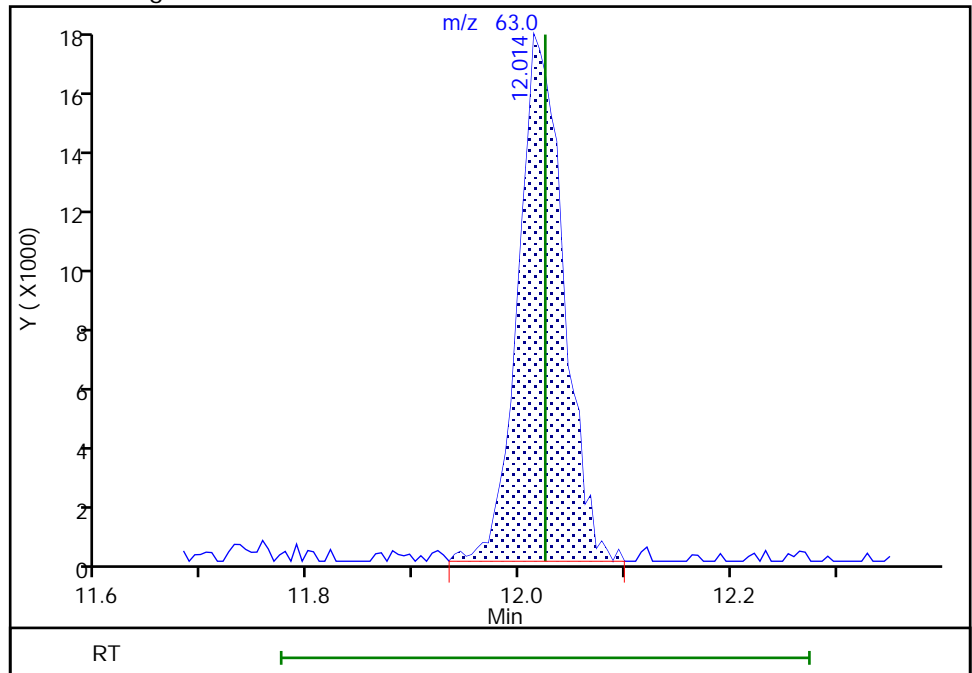
RT: 12.01  
Area: 49956  
Amount: 0.591972  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.01  
Area: 51479  
Amount: 0.606893  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:20:31  
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 27-Nov-2018 22:54:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-007  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 11:37:36 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 09:33:21

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 96  | 364033   | 4.99            | 5.44              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99  | 1908083  | 4.99            | 5.28              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000         | 97  | 785654   | 4.99            | 5.11              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 91  | 1389798  | 4.99            | 5.11              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99  | 366991   | 4.99            | 5.22              |       |
| 6 Butane                      | 43  | 3.598     | 3.604         | -0.006        | 97  | 492754   | 4.99            | 5.21              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 98  | 418982   | 4.99            | 4.95              |       |
| 8 Butadiene                   | 54  | 3.689     | 3.689         | 0.000         | 96  | 260635   | 4.99            | 4.95              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 99  | 486037   | 4.99            | 4.97              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 98  | 158452   | 4.99            | 4.86              |       |
| 12 2-Methylbutane             | 43  | 4.433     | 4.438         | -0.005        | 88  | 328482   | 4.99            | 5.26              |       |
| 13 Vinyl bromide              | 106 | 4.684     | 4.685         | 0.000         | 98  | 472875   | 4.99            | 4.89              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 1466203  | 4.99            | 5.13              |       |
| 16 Pentane                    | 43  | 4.861     | 4.866         | -0.005        | 98  | 480875   | 4.99            | 5.08              |       |
| 17 Ethanol                    | 45  | 5.209     | 5.209         | 0.000         | 96  | 205970   | 10.0            | 10.5              |       |
| 18 Ethyl ether                | 59  | 5.284     | 5.278         | 0.006         | 97  | 174979   | 4.99            | 5.27              |       |
| 19 Acrolein                   | 56  | 5.589     | 5.594         | -0.005        | 32  | 80408    | 4.99            | 6.33              | M     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.599     | 5.605         | -0.006        | 97  | 984428   | 4.99            | 4.89              |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 99  | 415825   | 4.99            | 4.70              |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 446467   | 4.99            | 5.92              |       |
| 23 Carbon disulfide           | 76  | 6.011     | 6.017         | -0.006        | 99  | 1180486  | 4.99            | 5.18              |       |
| 24 Isopropyl alcohol          | 45  | 6.097     | 6.097         | 0.000         | 100 | 433961   | 4.99            | 5.21              |       |
| 25 3-Chloro-1-propene         | 41  | 6.305     | 6.311         | -0.006        | 96  | 336881   | 4.99            | 5.11              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.423         | -0.005        | 96  | 159156   | 4.99            | 5.77              |       |
| 27 Methylene Chloride         | 49  | 6.552     | 6.557         | -0.005        | 91  | 400998   | 4.99            | 5.02              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.765     | 6.771         | -0.006        | 95  | 643959   | 4.99            | 5.05              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.942     | 6.937         | 0.005         | 95  | 896738   | 4.99            | 5.21              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 96  | 527968   | 4.99            | 4.92              |       |
| 32 Acrylonitrile              | 53  | 7.070     | 7.076         | -0.006        | 93  | 157052   | 4.99            | 5.22              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000         | 90  | 419502   | 4.99            | 4.91              |       |
| 34 1,1-Dichloroethane         | 63  | 7.723     | 7.728         | -0.005        | 99  | 658831   | 4.99            | 4.76              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 583981    | 4.99            | 5.58              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 92  | 421703    | 4.99            | 5.03              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 100 | 135941    | 4.99            | 5.02              |       |
| 39 Ethyl acetate               | 88  | 8.830     | 8.831          | -0.001        | 99  | 21125     | 4.99            | 5.48              |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.162          | -0.005        | 76  | 968663    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 86  | 260189    | 4.99            | 5.67              |       |
| 42 Chloroform                  | 83  | 9.275     | 9.275          | -0.001        | 95  | 989740    | 4.99            | 4.89              |       |
| 43 Cyclohexane                 | 84  | 9.531     | 9.537          | -0.006        | 96  | 449187    | 4.99            | 4.87              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.547          | -0.005        | 94  | 1112533   | 4.99            | 4.98              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 9.99            | 9.95              |       |
| 45 Carbon tetrachloride        | 117 | 9.783     | 9.788          | -0.005        | 98  | 1246640   | 4.99            | 5.22              |       |
| 46 Isooctane                   | 57  | 10.200    | 10.205         | -0.005        | 98  | 1548759   | 4.99            | 5.07              |       |
| 47 Benzene                     | 78  | 10.221    | 10.221         | 0.000         | 96  | 1003423   | 4.99            | 4.69              |       |
| 48 1,2-Dichloroethane          | 62  | 10.387    | 10.387         | 0.000         | 99  | 601611    | 4.99            | 4.86              |       |
| 49 n-Heptane                   | 43  | 10.574    | 10.575         | -0.001        | 92  | 568208    | 4.99            | 5.16              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.024         | 0.000         | 94  | 4020135   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.468    | 11.463         | 0.005         | 91  | 171996    | 4.99            | 4.75              |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.489         | -0.005        | 97  | 641772    | 4.99            | 4.58              |       |
| 54 1,2-Dichloropropane         | 63  | 12.024    | 12.024         | 0.000         | 84  | 363894    | 4.99            | 4.82              |       |
| 55 Methyl methacrylate         | 69  | 12.211    | 12.217         | -0.006        | 92  | 320321    | 4.99            | 5.14              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 179607099 | 4.99            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.270    | 12.276         | -0.006        | 96  | 580456    | 4.99            | 4.50              |       |
| 56 1,4-Dioxane                 | 88  | 12.286    | 12.281         | 0.005         | 90  | 203616    | 4.99            | 5.17              |       |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.565         | -0.006        | 99  | 1080443   | 4.99            | 4.97              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.479    | 13.479         | 0.000         | 95  | 656690    | 4.99            | 4.88              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.795    | 13.795         | 0.000         | 98  | 772096    | 4.99            | 5.55              |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 94  | 735618    | 4.99            | 4.84              |       |
| 64 n-Octane                    | 43  | 14.153    | 14.153         | 0.000         | 92  | 841880    | 4.99            | 5.20              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 277592984 | 4.99            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 97  | 664445    | 4.99            | 5.02              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.025    | 15.031         | -0.006        | 98  | 410631    | 4.99            | 5.00              |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143         | 0.000         | 95  | 877542    | 4.99            | 4.82              |       |
| 69 2-Hexanone                  | 43  | 15.518    | 15.518         | 0.000         | 92  | 742376    | 4.99            | 5.56              |       |
| 71 Chlorodibromomethane        | 129 | 15.785    | 15.790         | -0.005        | 97  | 1096910   | 4.99            | 4.99              |       |
| 72 Ethylene Dibromide          | 107 | 16.053    | 16.053         | 0.000         | 98  | 815745    | 4.99            | 4.92              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 86  | 3749788   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.021    | 17.026         | -0.005        | 94  | 1116470   | 4.99            | 4.78              |       |
| 76 Ethylbenzene                | 91  | 17.187    | 17.192         | -0.005        | 98  | 1720827   | 4.99            | 5.03              |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 88  | 756388    | 4.99            | 5.06              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.444    | 17.449         | -0.005        | 0   | 1361269   | 9.99            | 9.82              |       |
| 79 o-Xylene                    | 106 | 18.294    | 18.294         | 0.000         | 98  | 658661    | 4.99            | 5.00              |       |
| 80 Styrene                     | 104 | 18.348    | 18.348         | 0.000         | 99  | 1009105   | 4.99            | 5.00              |       |
| 81 Bromoform                   | 173 | 18.786    | 18.786         | 0.000         | 95  | 1072914   | 4.99            | 5.40              |       |
| 82 Isopropylbenzene            | 105 | 19.048    | 19.048         | 0.000         | 96  | 1969132   | 4.99            | 5.11              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 15.0            | 14.8              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 98  | 1092336   | 4.99            | 5.20              |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 98  | 2390637   | 4.99            | 5.21              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 97  | 903747    | 4.99            | 5.06              |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 96  | 1783458   | 4.99            | 5.15              |       |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060         | 0.000         | 98  | 1994007   | 4.99            | 5.11              |       |
| 87 n-Decane                    | 57  | 20.081    | 20.086         | -0.005        | 93  | 948077    | 4.99            | 5.13              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.177         | 0.000         | 93  | 1714281   | 4.99            | 5.13              |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 89 | 855695   | 4.99            | 5.45              |       |
| 92 tert-Butylbenzene       | 119 | 20.701    | 20.702        | -0.001        | 91 | 1609408  | 4.99            | 5.15              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 98 | 1709998  | 4.99            | 5.19              |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 2457706  | 4.99            | 5.30              |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 97 | 2110536  | 4.99            | 5.31              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.274    | 21.279        | -0.005        | 98 | 1324895  | 4.99            | 4.96              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 95 | 1288460  | 4.99            | 5.04              |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 98 | 1661751  | 4.99            | 5.27              |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 98 | 2002534  | 4.99            | 5.53              |       |
| 99 Undecane                | 57  | 21.911    | 21.911        | -0.001        | 94 | 1063652  | 4.99            | 5.22              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 95 | 1257186  | 4.99            | 5.12              |       |
| 102 Dodecane               | 57  | 23.441    | 23.441        | 0.000         | 96 | 912362   | 4.99            | 5.59              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 893344   | 4.99            | 4.84              |       |
| 104 Hexachlorobutadiene    | 225 | 24.532    | 24.537        | -0.005        | 97 | 926407   | 4.99            | 5.05              |       |
| 105 Naphthalene            | 128 | 24.789    | 24.783        | 0.006         | 99 | 1696136  | 4.99            | 4.74              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 786857   | 4.99            | 4.93              |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL3w\_00206

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D

Injection Date: 27-Nov-2018 22:54:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 7

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

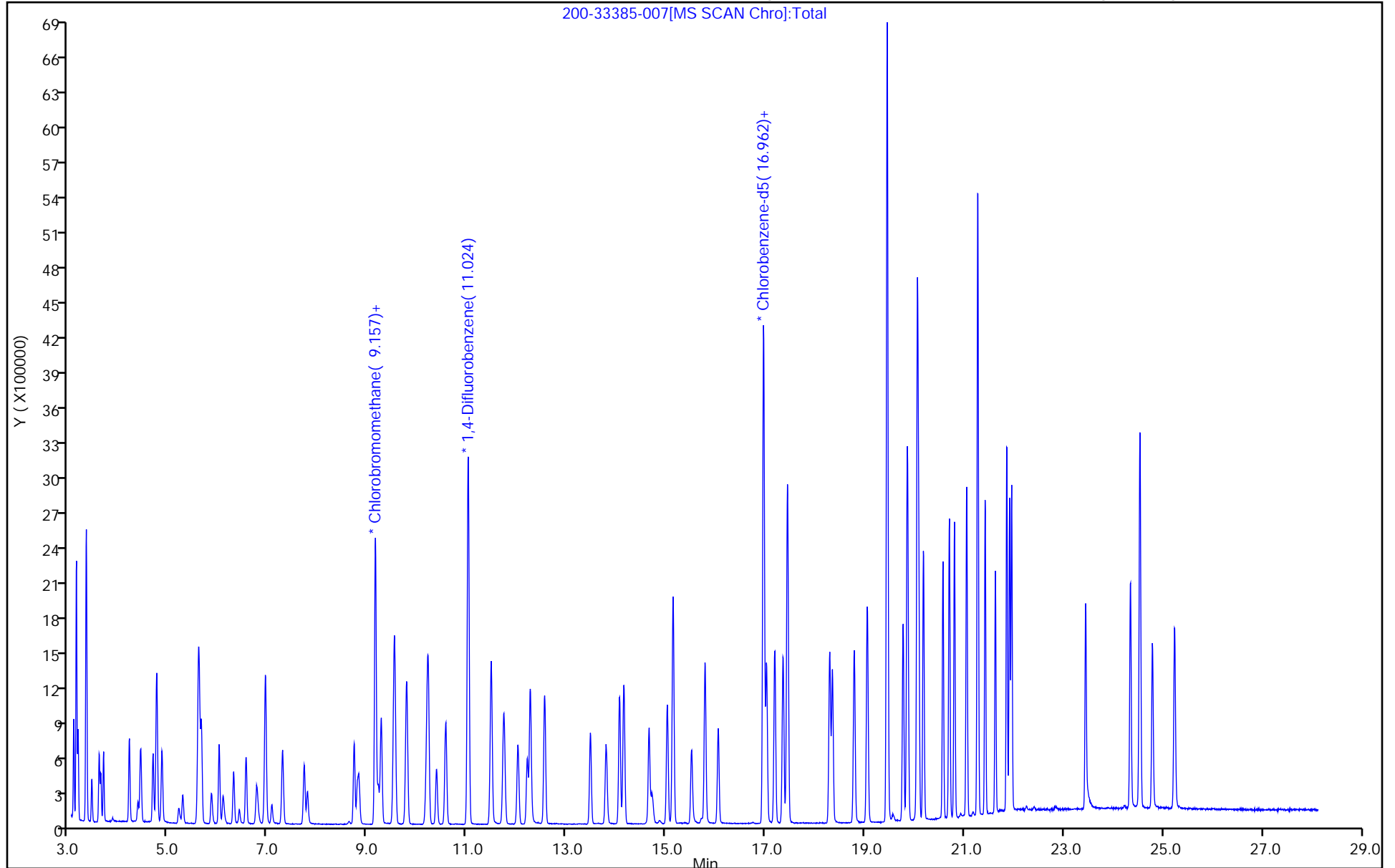
ALS Bottle#: 6

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

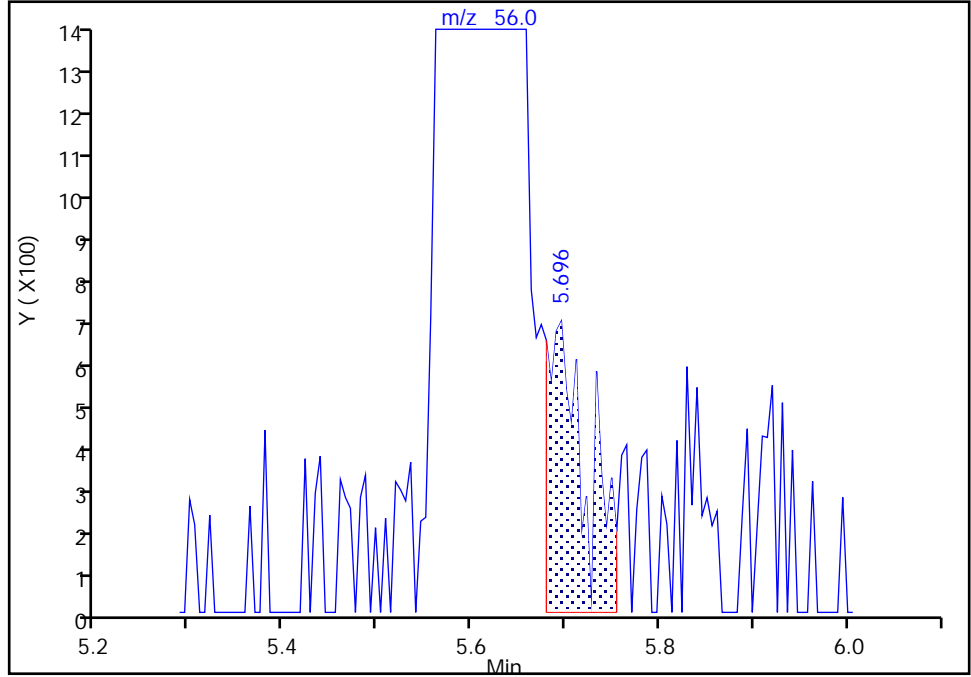
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-007.D  
Injection Date: 27-Nov-2018 22:54:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

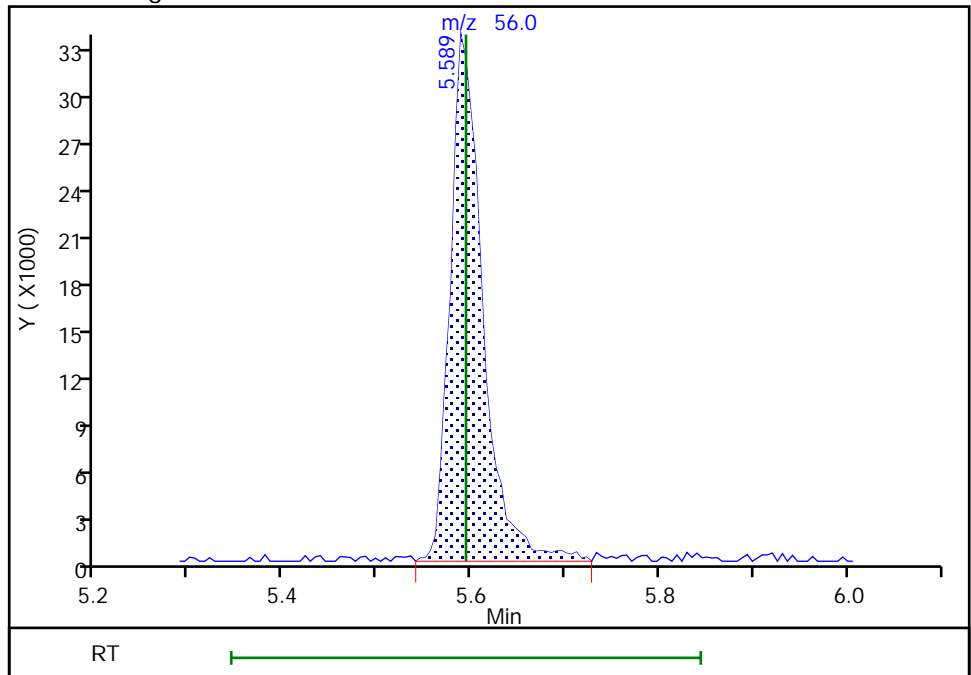
RT: 5.70  
Area: 1925  
Amount: 0.457400  
Amount Units: ppb v/v

Processing Integration Results



RT: 5.59  
Area: 80408  
Amount: 6.329847  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 10:22:17  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 27-Nov-2018 23:44:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-008  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 11:37:38 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: desjardinsb

Date: 28-Nov-2018 08:17:50

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 98  | 785952   | 10.0            | 11.7              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99  | 4085272  | 10.0            | 11.2              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000         | 96  | 1696694  | 10.0            | 11.0              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 90  | 3006367  | 10.0            | 11.0              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99  | 781412   | 10.0            | 11.0              |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000         | 96  | 1051856  | 10.0            | 11.0              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 98  | 919635   | 10.0            | 10.8              |       |
| 8 Butadiene                   | 54  | 3.689     | 3.689         | 0.000         | 95  | 570903   | 10.0            | 10.8              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 98  | 1095065  | 10.0            | 11.1              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 99  | 357997   | 10.0            | 10.9              |       |
| 12 2-Methylbutane             | 43  | 4.438     | 4.438         | 0.000         | 88  | 689287   | 10.0            | 11.0              |       |
| 13 Vinyl bromide              | 106 | 4.685     | 4.685         | 0.000         | 99  | 1075494  | 10.0            | 11.1              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 3176477  | 10.0            | 11.1              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 98  | 1018971  | 10.0            | 10.7              |       |
| 17 Ethanol                    | 45  | 5.209     | 5.209         | 0.000         | 96  | 369667   | 15.0            | 18.8              |       |
| 18 Ethyl ether                | 59  | 5.278     | 5.278         | 0.000         | 98  | 370443   | 10.0            | 11.1              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.594         | 0.000         | 34  | 153136   | 10.0            | 12.0              | M     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 97  | 2196444  | 10.0            | 10.9              |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 98  | 939842   | 10.0            | 10.5              |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 873048   | 10.0            | 11.5              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.017         | 0.000         | 99  | 2546288  | 10.0            | 11.1              |       |
| 24 Isopropyl alcohol          | 45  | 6.097     | 6.097         | 0.000         | 100 | 967720   | 10.0            | 11.5              |       |
| 25 3-Chloro-1-propene         | 41  | 6.311     | 6.311         | 0.000         | 96  | 586985   | 10.0            | 8.86              |       |
| 26 Acetonitrile               | 41  | 6.423     | 6.423         | 0.000         | 98  | 322186   | 10.0            | 11.6              |       |
| 27 Methylene Chloride         | 49  | 6.557     | 6.557         | 0.000         | 89  | 879587   | 10.0            | 10.9              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.771     | 6.771         | 0.000         | 94  | 1462343  | 10.0            | 11.4              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000         | 95  | 1877588  | 10.0            | 10.8              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 95  | 1160714  | 10.0            | 10.8              |       |
| 32 Acrylonitrile              | 53  | 7.076     | 7.076         | 0.000         | 95  | 330215   | 10.0            | 10.9              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000         | 90  | 946701   | 10.0            | 11.0              |       |
| 34 1,1-Dichloroethane         | 63  | 7.728     | 7.728         | 0.000         | 99  | 1475943  | 10.0            | 10.6              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 1232683   | 10.0            | 11.7              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 90  | 958263    | 10.0            | 11.4              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 100 | 280092    | 10.0            | 10.3              |       |
| 39 Ethyl acetate               | 88  | 8.831     | 8.831          | 0.000         | 99  | 42404     | 10.0            | 10.9              |       |
| * 40 Chlorobromomethane        | 128 | 9.162     | 9.162          | 0.000         | 75  | 974604    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 86  | 531349    | 10.0            | 13.4              |       |
| 42 Chloroform                  | 83  | 9.275     | 9.275          | 0.000         | 96  | 2240315   | 10.0            | 11.0              |       |
| 43 Cyclohexane                 | 84  | 9.537     | 9.537          | 0.000         | 95  | 1040636   | 10.0            | 13.1              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.547     | 9.547          | 0.000         | 94  | 2590931   | 10.0            | 13.5              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 22.1              |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 98  | 2875434   | 10.0            | 14.0              |       |
| 46 Isooctane                   | 57  | 10.205    | 10.205         | 0.000         | 98  | 3515364   | 10.0            | 13.4              |       |
| 47 Benzene                     | 78  | 10.221    | 10.221         | 0.000         | 96  | 2425081   | 10.0            | 13.2              |       |
| 48 1,2-Dichloroethane          | 62  | 10.387    | 10.387         | 0.000         | 99  | 1420020   | 10.0            | 13.3              |       |
| 49 n-Heptane                   | 43  | 10.575    | 10.575         | 0.000         | 91  | 1258258   | 10.0            | 13.3              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.024         | 0.000         | 94  | 3462989   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.463    | 11.463         | 0.000         | 93  | 415873    | 10.0            | 13.3              |       |
| 53 Trichloroethene             | 95  | 11.489    | 11.489         | 0.000         | 98  | 1513764   | 10.0            | 12.5              |       |
| 54 1,2-Dichloropropane         | 63  | 12.024    | 12.024         | 0.000         | 85  | 856722    | 10.0            | 13.2              |       |
| 55 Methyl methacrylate         | 69  | 12.217    | 12.217         | 0.000         | 93  | 684345    | 10.0            | 12.7              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 374026723 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.276    | 12.276         | 0.000         | 97  | 1437496   | 10.0            | 12.9              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.281         | 0.000         | 90  | 457619    | 10.0            | 13.5              |       |
| 58 Dichlorobromomethane        | 83  | 12.565    | 12.565         | 0.000         | 98  | 2608790   | 10.0            | 13.9              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.479    | 13.479         | 0.000         | 95  | 1557584   | 10.0            | 13.4              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.795    | 13.795         | 0.000         | 97  | 1610756   | 10.0            | 13.4              |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 94  | 1720202   | 10.0            | 12.2              |       |
| 64 n-Octane                    | 43  | 14.153    | 14.153         | 0.000         | 90  | 1908768   | 10.0            | 13.7              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 593252761 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 96  | 1524139   | 10.0            | 13.4              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.031    | 15.031         | 0.000         | 98  | 944671    | 10.0            | 12.4              |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143         | 0.000         | 96  | 2109890   | 10.0            | 12.5              |       |
| 69 2-Hexanone                  | 43  | 15.518    | 15.518         | 0.000         | 94  | 1581311   | 10.0            | 12.7              |       |
| 71 Chlorodibromomethane        | 129 | 15.790    | 15.790         | 0.000         | 97  | 2651860   | 10.0            | 13.0              |       |
| 72 Ethylene Dibromide          | 107 | 16.053    | 16.053         | 0.000         | 100 | 1960372   | 10.0            | 12.7              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 85  | 3487050   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 95  | 2683674   | 10.0            | 12.4              |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 98  | 3925675   | 10.0            | 12.3              |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 87  | 1743091   | 10.0            | 12.5              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0   | 3111549   | 20.0            | 24.1              |       |
| 79 o-Xylene                    | 106 | 18.294    | 18.294         | 0.000         | 99  | 1499082   | 10.0            | 12.2              |       |
| 80 Styrene                     | 104 | 18.348    | 18.348         | 0.000         | 99  | 2380815   | 10.0            | 12.7              |       |
| 81 Bromoform                   | 173 | 18.786    | 18.786         | 0.000         | 96  | 2435440   | 10.0            | 13.2              |       |
| 82 Isopropylbenzene            | 105 | 19.048    | 19.048         | 0.000         | 96  | 4471409   | 10.0            | 12.5              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 36.4              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 99  | 2425088   | 10.0            | 12.4              |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 99  | 5367272   | 10.0            | 12.6              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 97  | 1969674   | 10.0            | 11.9              |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 97  | 4058986   | 10.0            | 12.6              |       |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060         | 0.000         | 98  | 4603967   | 10.0            | 12.7              |       |
| 87 n-Decane                    | 57  | 20.086    | 20.086         | 0.000         | 93  | 2120895   | 10.0            | 12.3              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.177    | 20.177         | 0.000         | 93  | 3866116   | 10.0            | 12.4              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 90 | 2004428  | 10.0            | 13.7              |       |
| 92 tert-Butylbenzene       | 119 | 20.702    | 20.702        | 0.000         | 92 | 3605410  | 10.0            | 12.4              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 97 | 3850351  | 10.0            | 12.6              |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 5460744  | 10.0            | 12.7              |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 97 | 4749785  | 10.0            | 12.9              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.279    | 21.279        | 0.000         | 97 | 3135758  | 10.0            | 12.6              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 95 | 2972771  | 10.0            | 12.5              |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 98 | 3655270  | 10.0            | 12.5              |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 99 | 4426320  | 10.0            | 13.1              |       |
| 99 Undecane                | 57  | 21.911    | 21.911        | 0.000         | 94 | 2362262  | 10.0            | 12.5              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 96 | 2866493  | 10.0            | 12.6              |       |
| 102 Dodecane               | 57  | 23.441    | 23.441        | 0.000         | 97 | 2002652  | 10.0            | 13.2              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 2104583  | 10.0            | 12.3              |       |
| 104 Hexachlorobutadiene    | 225 | 24.537    | 24.537        | 0.000         | 97 | 2116655  | 10.0            | 12.4              |       |
| 105 Naphthalene            | 128 | 24.783    | 24.783        | 0.000         | 99 | 4016657  | 10.0            | 12.1              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 1759849  | 10.0            | 11.9              |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL4w\_00706

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D

Injection Date: 27-Nov-2018 23:44:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: icis

Worklist Smp#: 8

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

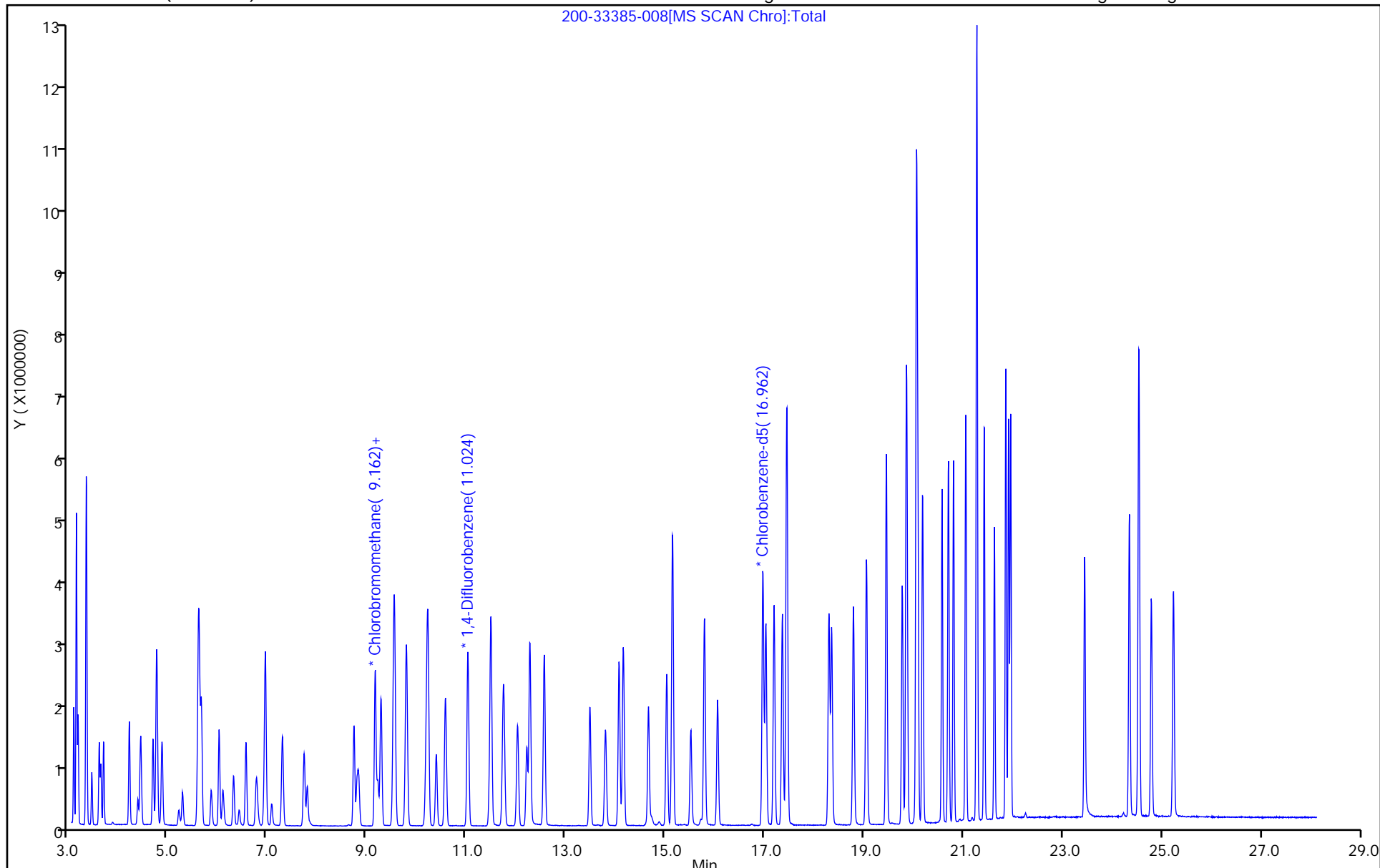
ALS Bottle#: 7

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

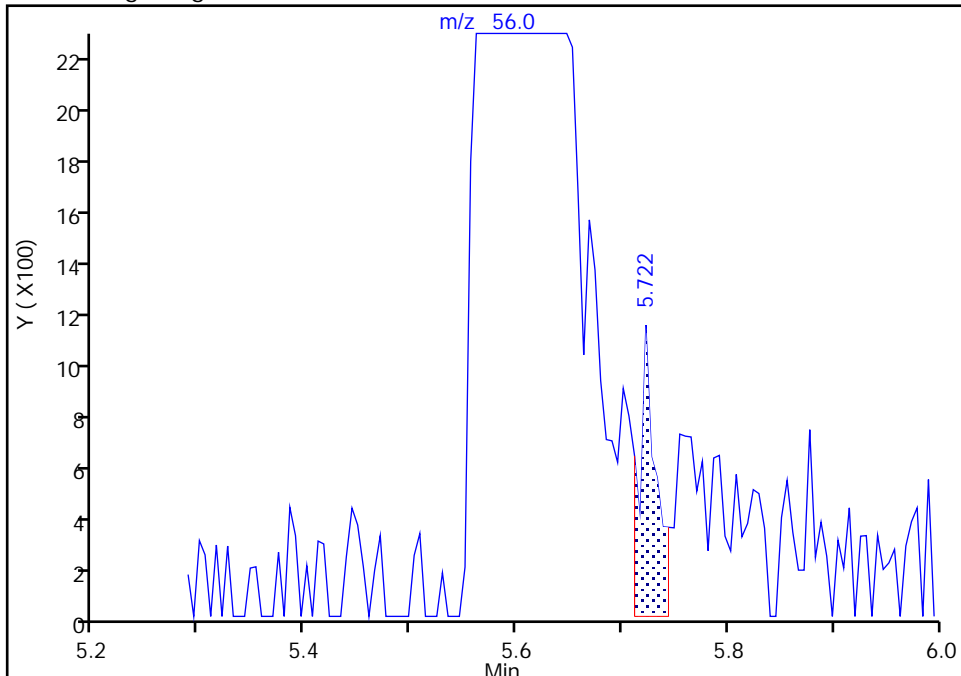
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-008.D  
Injection Date: 27-Nov-2018 23:44:30 Instrument ID: CHG.i  
Lims ID: icis  
Client ID:  
Operator ID: vtp ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

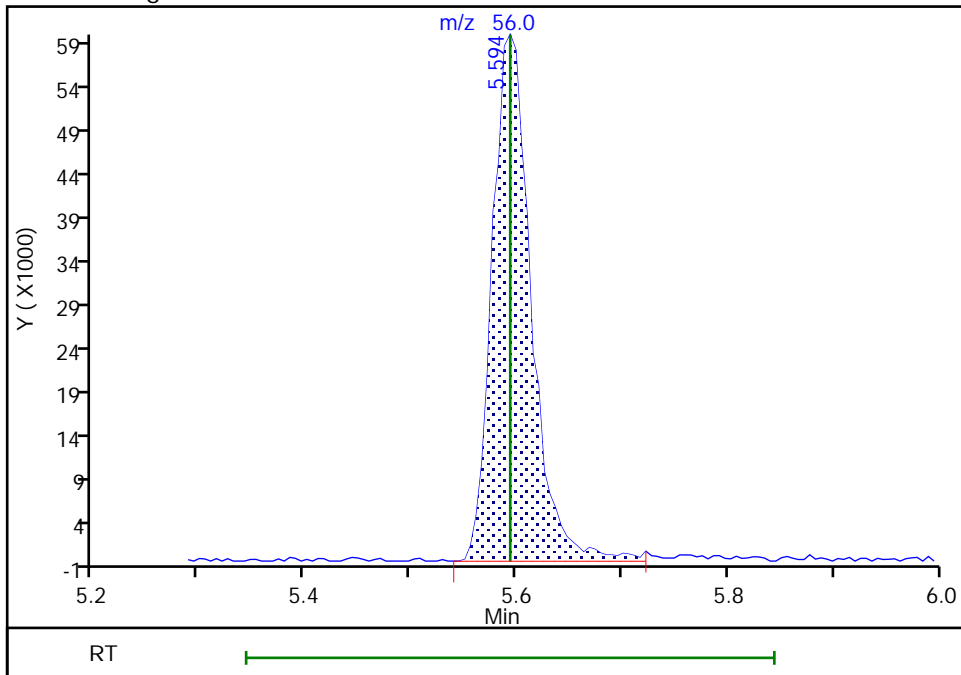
RT: 5.72  
Area: 1266  
Amount: 0.171135  
Amount Units: ppb v/v

Processing Integration Results



RT: 5.59  
Area: 153136  
Amount: 11.981626  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 10:24:29  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-009.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 28-Nov-2018 00:35:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-009  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 11:37:40 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 09:36:53

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 97  | 1051895  | 15.0            | 13.8              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 98  | 5549641  | 15.0            | 13.4              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000         | 96  | 2318249  | 15.0            | 13.2              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 89  | 4133878  | 15.0            | 13.3              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99  | 1051513  | 15.0            | 13.1              |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000         | 96  | 1427468  | 15.0            | 13.2              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 98  | 1249166  | 15.0            | 12.9              |       |
| 8 Butadiene                   | 54  | 3.690     | 3.689         | 0.001         | 94  | 794383   | 15.0            | 13.2              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 98  | 1527586  | 15.0            | 13.7              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 99  | 495532   | 15.0            | 13.3              |       |
| 12 2-Methylbutane             | 43  | 4.433     | 4.438         | -0.005        | 88  | 950946   | 15.0            | 13.3              |       |
| 13 Vinyl bromide              | 106 | 4.685     | 4.685         | 0.001         | 98  | 1504165  | 15.0            | 13.6              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 4416027  | 15.0            | 13.5              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 99  | 1418170  | 15.0            | 13.1              |       |
| 17 Ethanol                    | 45  | 5.203     | 5.209         | -0.006        | 96  | 390014   | 20.0            | 17.4              |       |
| 18 Ethyl ether                | 59  | 5.278     | 5.278         | 0.000         | 97  | 544069   | 15.0            | 14.3              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.594         | 0.000         | 96  | 169592   | 15.0            | 11.7              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 98  | 3122448  | 15.0            | 13.6              |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 97  | 1324685  | 15.0            | 13.1              |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 1288430  | 15.0            | 14.9              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.017         | 0.000         | 99  | 3533230  | 15.0            | 13.6              |       |
| 24 Isopropyl alcohol          | 45  | 6.092     | 6.097         | -0.005        | 100 | 1330275  | 15.0            | 14.0              |       |
| 25 3-Chloro-1-propene         | 41  | 6.311     | 6.311         | 0.000         | 95  | 1064730  | 15.0            | 14.1              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.423         | -0.005        | 98  | 476460   | 15.0            | 15.1              |       |
| 27 Methylene Chloride         | 49  | 6.557     | 6.557         | 0.000         | 88  | 1241501  | 15.0            | 13.6              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.766     | 6.771         | -0.005        | 93  | 2024721  | 15.0            | 13.9              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000         | 95  | 2850213  | 15.0            | 14.5              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 95  | 1662249  | 15.0            | 13.5              |       |
| 32 Acrylonitrile              | 53  | 7.076     | 7.076         | 0.000         | 94  | 496388   | 15.0            | 14.4              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000         | 90  | 1337568  | 15.0            | 13.7              |       |
| 34 1,1-Dichloroethane         | 63  | 7.729     | 7.728         | 0.001         | 99  | 2102981  | 15.0            | 13.3              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 1807895   | 15.0            | 15.1              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 89  | 1372886   | 15.0            | 14.3              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 99  | 426590    | 15.0            | 13.8              |       |
| 39 Ethyl acetate               | 88  | 8.825     | 8.831          | -0.006        | 99  | 66961     | 15.0            | 15.2              |       |
| * 40 Chlorobromomethane        | 128 | 9.162     | 9.162          | 0.000         | 76  | 1107803   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.205     | 9.210          | -0.005        | 85  | 787841    | 15.0            | 14.0              |       |
| 42 Chloroform                  | 83  | 9.280     | 9.275          | 0.005         | 95  | 3210215   | 15.0            | 13.9              |       |
| 43 Cyclohexane                 | 84  | 9.531     | 9.537          | -0.006        | 95  | 1479056   | 15.0            | 13.1              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.547     | 9.547          | 0.000         | 94  | 3683537   | 15.0            | 13.5              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 30.0            | 27.9              |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 98  | 4172078   | 15.0            | 14.3              |       |
| 46 Isooctane                   | 57  | 10.200    | 10.205         | -0.005        | 97  | 5016965   | 15.0            | 13.4              |       |
| 47 Benzene                     | 78  | 10.227    | 10.221         | 0.006         | 95  | 3570443   | 15.0            | 13.6              |       |
| 48 1,2-Dichloroethane          | 62  | 10.387    | 10.387         | 0.000         | 99  | 2059367   | 15.0            | 13.6              |       |
| 49 n-Heptane                   | 43  | 10.575    | 10.575         | 0.000         | 91  | 1808294   | 15.0            | 13.4              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.024         | 0.000         | 93  | 4921763   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.463    | 11.463         | 0.000         | 90  | 590670    | 15.0            | 13.3              |       |
| 53 Trichloroethene             | 95  | 11.489    | 11.489         | 0.000         | 99  | 2259549   | 15.0            | 13.2              |       |
| 54 1,2-Dichloropropane         | 63  | 12.030    | 12.024         | 0.006         | 86  | 1293872   | 15.0            | 14.0              |       |
| 55 Methyl methacrylate         | 69  | 12.212    | 12.217         | -0.005        | 95  | 1098124   | 15.0            | 14.4              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 560457297 | 15.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.276    | 12.276         | 0.000         | 96  | 2450905   | 15.0            | 15.5              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.281         | 0.000         | 36  | 641235    | 15.0            | 13.3              | M     |
| 58 Dichlorobromomethane        | 83  | 12.565    | 12.565         | 0.000         | 98  | 3677048   | 15.0            | 13.8              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.485    | 13.479         | 0.006         | 94  | 2401051   | 15.0            | 14.6              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.790    | 13.795         | -0.005        | 97  | 2404030   | 15.0            | 14.1              |       |
| 65 Toluene                     | 92  | 14.073    | 14.068         | 0.005         | 94  | 2697537   | 15.0            | 14.5              |       |
| 64 n-Octane                    | 43  | 14.159    | 14.153         | 0.006         | 89  | 2733544   | 15.0            | 13.8              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 906503627 | 15.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 96  | 2393129   | 15.0            | 14.8              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.031    | 15.031         | 0.000         | 97  | 1455914   | 15.0            | 14.5              |       |
| 68 Tetrachloroethene           | 166 | 15.149    | 15.143         | 0.006         | 96  | 3180178   | 15.0            | 14.3              |       |
| 69 2-Hexanone                  | 43  | 15.512    | 15.518         | -0.006        | 94  | 2372638   | 15.0            | 14.5              |       |
| 71 Chlorodibromomethane        | 129 | 15.791    | 15.790         | 0.001         | 97  | 3504436   | 15.0            | 13.0              |       |
| 72 Ethylene Dibromide          | 107 | 16.053    | 16.053         | 0.000         | 100 | 3056704   | 15.0            | 15.0              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.967    | 16.962         | 0.005         | 84  | 4590569   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 96  | 4212946   | 15.0            | 14.7              |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 98  | 6179511   | 15.0            | 14.8              |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 86  | 2627135   | 15.0            | 14.3              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0   | 5063931   | 30.0            | 29.8              |       |
| 79 o-Xylene                    | 106 | 18.294    | 18.294         | 0.000         | 99  | 2399623   | 15.0            | 14.9              |       |
| 80 Styrene                     | 104 | 18.348    | 18.348         | 0.000         | 98  | 3868129   | 15.0            | 15.7              |       |
| 81 Bromoform                   | 173 | 18.792    | 18.786         | 0.006         | 96  | 2161781   | 15.0            | 8.88              |       |
| 82 Isopropylbenzene            | 105 | 19.049    | 19.048         | 0.001         | 96  | 7117974   | 15.0            | 15.1              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 45.0            | 44.7              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 99  | 3790940   | 15.0            | 14.7              |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 99  | 8487730   | 15.0            | 15.1              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 97  | 3079793   | 15.0            | 14.1              |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 96  | 6323624   | 15.0            | 14.9              |       |
| 88 4-Ethyltoluene              | 105 | 20.065    | 20.060         | 0.005         | 97  | 7416727   | 15.0            | 15.5              |       |
| 87 n-Decane                    | 57  | 20.086    | 20.086         | 0.000         | 93  | 3291763   | 15.0            | 14.5              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.183    | 20.177         | 0.006         | 93  | 6168169   | 15.0            | 15.1              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 91 | 3239717  | 15.0            | 16.9              |       |
| 92 tert-Butylbenzene       | 119 | 20.702    | 20.702        | 0.000         | 92 | 5791514  | 15.0            | 15.1              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 97 | 6137145  | 15.0            | 15.2              |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 8693056  | 15.0            | 15.3              |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 97 | 7730417  | 15.0            | 15.9              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.279    | 21.279        | 0.000         | 96 | 5066879  | 15.0            | 15.5              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 95 | 4788189  | 15.0            | 15.3              |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 99 | 6093646  | 15.0            | 15.8              |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 99 | 6926989  | 15.0            | 15.6              |       |
| 99 Undecane                | 57  | 21.911    | 21.911        | 0.000         | 93 | 3684708  | 15.0            | 14.8              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 96 | 4598903  | 15.0            | 15.3              |       |
| 102 Dodecane               | 57  | 23.446    | 23.441        | 0.005         | 98 | 3190960  | 15.0            | 16.0              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 3603443  | 15.0            | 15.9              |       |
| 104 Hexachlorobutadiene    | 225 | 24.537    | 24.537        | 0.000         | 98 | 3408169  | 15.0            | 15.2              |       |
| 105 Naphthalene            | 128 | 24.783    | 24.783        | 0.000         | 99 | 7199838  | 15.0            | 16.4              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 3122511  | 15.0            | 16.0              |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATTO15CAL5w\_00076

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-009.D

Injection Date: 28-Nov-2018 00:35:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 9

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

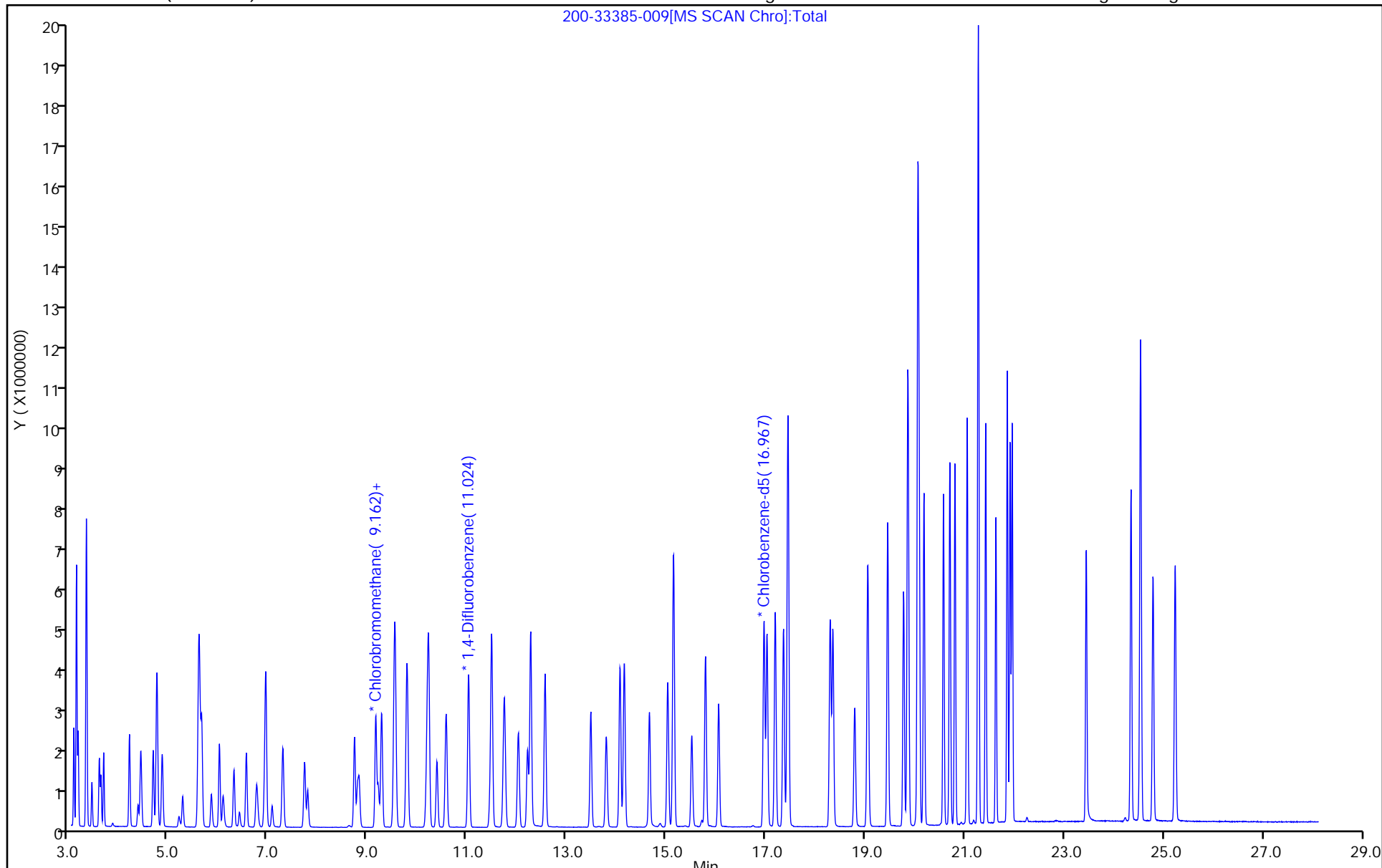
ALS Bottle#: 8

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

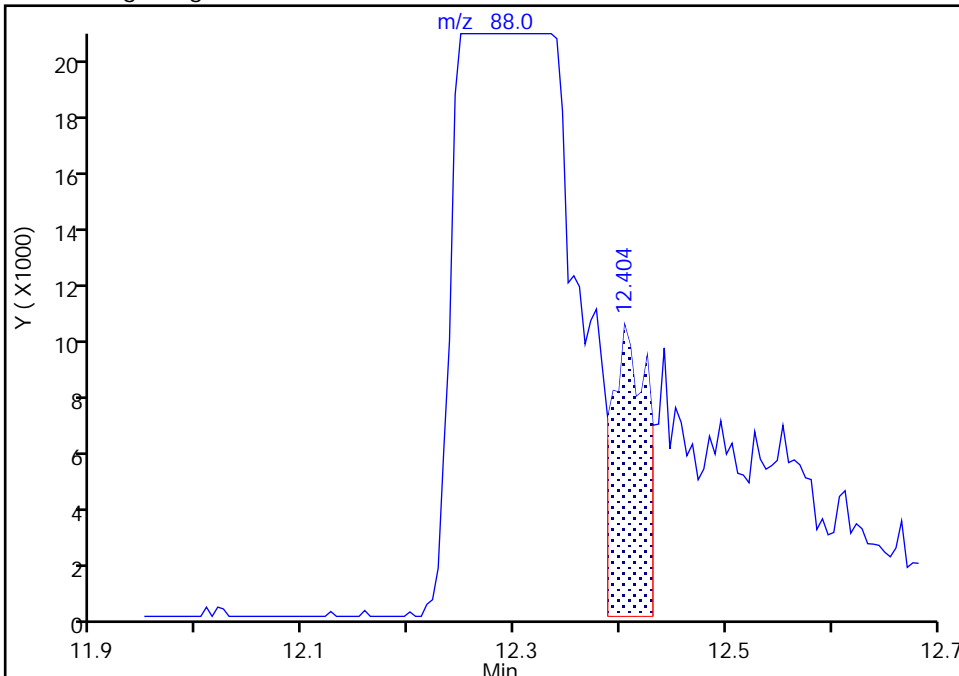
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Injection Date: 28-Nov-2018 00:35:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Signal: 1

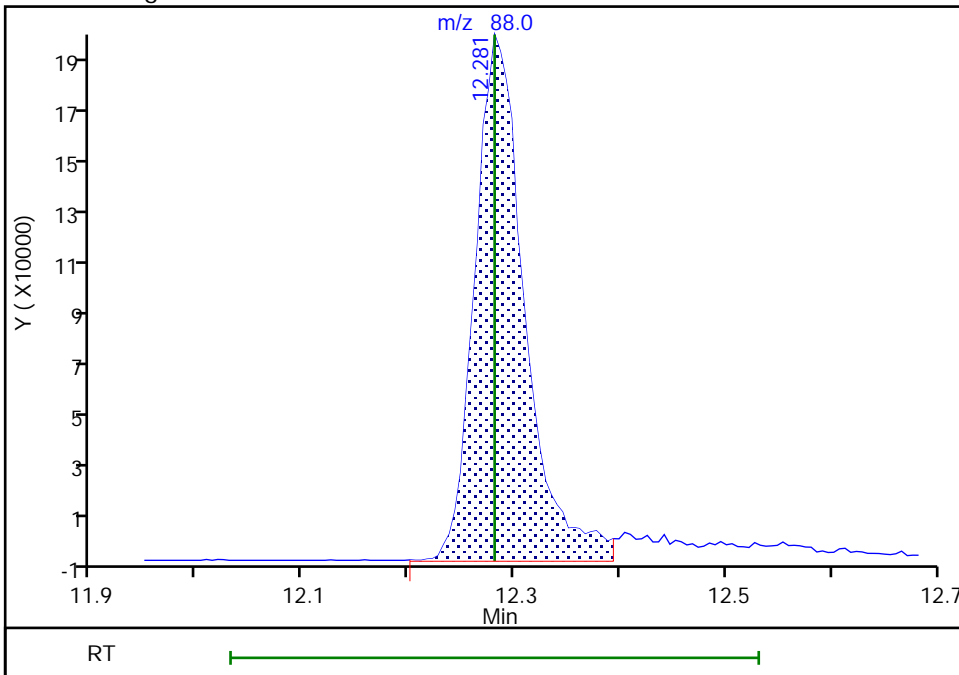
RT: 12.40  
Area: 24048  
Amount: 0.601975  
Amount Units: ppb v/v

Processing Integration Results



RT: 12.28  
Area: 641235  
Amount: 13.310343  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 09:36:00  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-010.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 28-Nov-2018 01:25:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-010  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 11:37:41 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 09:38:16

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000          | 98  | 1420070  | 20.0            | 19.0              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000          | 98  | 7395788  | 20.0            | 18.3              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000          | 96  | 3204700  | 20.0            | 18.7              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000          | 88  | 5572029  | 20.0            | 18.4              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000          | 99  | 1476396  | 20.0            | 18.8              |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000          | 96  | 1941633  | 20.0            | 18.4              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000          | 98  | 1700616  | 20.0            | 18.0              |       |
| 8 Butadiene                   | 54  | 3.690     | 3.689         | 0.001          | 94  | 1096868  | 20.0            | 18.7              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000          | 99  | 2091603  | 20.0            | 19.2              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000          | 99  | 671660   | 20.0            | 18.5              |       |
| 12 2-Methylbutane             | 43  | 4.439     | 4.438         | 0.001          | 87  | 1259758  | 20.0            | 18.1              |       |
| 13 Vinyl bromide              | 106 | 4.685     | 4.685         | 0.001          | 97  | 2054520  | 20.0            | 19.0              |       |
| 14 Trichlorofluoromethane     | 101 | 4.760     | 4.759         | 0.001          | 98  | 5859677  | 20.0            | 18.4              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000          | 98  | 1888865  | 20.0            | 17.9              |       |
| 17 Ethanol                    | 45  | 5.198     | 5.209         | -0.011         | 96  | 707471   | 40.0            | 32.4              |       |
| 18 Ethyl ether                | 59  | 5.278     | 5.278         | 0.000          | 97  | 593714   | 20.0            | 16.0              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.594         | 0.000          | 97  | 235550   | 20.0            | 16.6              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610     | 5.605         | 0.005          | 96  | 4119144  | 20.0            | 18.3              |       |
| 21 1,1-Dichloroethene         | 96  | 5.664     | 5.658         | 0.006          | 97  | 1849152  | 20.0            | 18.7              |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000          | 99  | 1383034  | 20.0            | 16.4              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.017         | 0.000          | 99  | 4650752  | 20.0            | 18.3              |       |
| 24 Isopropyl alcohol          | 45  | 6.092     | 6.097         | -0.005         | 100 | 1788623  | 20.0            | 19.2              |       |
| 25 3-Chloro-1-propene         | 41  | 6.311     | 6.311         | 0.000          | 95  | 1391342  | 20.0            | 18.9              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.423         | -0.005         | 98  | 491620   | 20.0            | 16.0              |       |
| 27 Methylene Chloride         | 49  | 6.557     | 6.557         | 0.000          | 88  | 1595918  | 20.0            | 17.9              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.766     | 6.771         | -0.005         | 93  | 2787953  | 20.0            | 19.6              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000          | 95  | 3214537  | 20.0            | 16.7              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.953     | 6.947         | 0.006          | 94  | 2165148  | 20.0            | 18.1              |       |
| 32 Acrylonitrile              | 53  | 7.076     | 7.076         | 0.000          | 92  | 527389   | 20.0            | 15.7              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000          | 91  | 1757444  | 20.0            | 18.4              |       |
| 34 1,1-Dichloroethane         | 63  | 7.734     | 7.728         | 0.006          | 99  | 2699325  | 20.0            | 17.5              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response   | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|------------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 1891260    | 20.0            | 16.2              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 89  | 1805960    | 20.0            | 19.3              |       |
| 38 2-Butanone (MEK)            | 72  | 8.788     | 8.793          | -0.005        | 100 | 504703     | 20.0            | 16.7              |       |
| 39 Ethyl acetate               | 88  | 8.831     | 8.831          | 0.000         | 99  | 76105      | 20.0            | 17.7              |       |
| * 40 Chlorobromomethane        | 128 | 9.162     | 9.162          | 0.000         | 74  | 1081320    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.205     | 9.210          | -0.005        | 84  | 901182     | 20.0            | 15.6              |       |
| 42 Chloroform                  | 83  | 9.280     | 9.275          | 0.005         | 96  | 4128100    | 20.0            | 18.3              |       |
| 43 Cyclohexane                 | 84  | 9.537     | 9.537          | 0.000         | 94  | 1963429    | 20.0            | 16.9              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.547     | 9.547          | 0.000         | 94  | 4755711    | 20.0            | 16.9              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |            | 40.0            | 37.4              |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 97  | 5453754    | 20.0            | 18.1              |       |
| 46 Isooctane                   | 57  | 10.205    | 10.205         | 0.000         | 98  | 6475336    | 20.0            | 16.8              |       |
| 47 Benzene                     | 78  | 10.227    | 10.221         | 0.006         | 95  | 4328088    | 20.0            | 16.0              |       |
| 48 1,2-Dichloroethane          | 62  | 10.393    | 10.387         | 0.006         | 99  | 2489352    | 20.0            | 15.9              |       |
| 49 n-Heptane                   | 43  | 10.575    | 10.575         | 0.000         | 90  | 2336889    | 20.0            | 16.8              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.029    | 11.024         | 0.005         | 93  | 5074891    | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.457    | 11.463         | -0.006        | 90  | 826101     | 20.0            | 18.1              |       |
| 53 Trichloroethene             | 95  | 11.489    | 11.489         | 0.000         | 99  | 3073973    | 20.0            | 17.4              |       |
| 54 1,2-Dichloropropane         | 63  | 12.030    | 12.024         | 0.006         | 86  | 1502966    | 20.0            | 15.8              |       |
| 55 Methyl methacrylate         | 69  | 12.212    | 12.217         | -0.005        | 95  | 1330674    | 20.0            | 16.9              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 702477121  | 20.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.276    | 12.276         | 0.000         | 96  | 2840387    | 20.0            | 17.4              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.281         | 0.000         | 89  | 869623     | 20.0            | 17.5              |       |
| 58 Dichlorobromomethane        | 83  | 12.565    | 12.565         | 0.000         | 98  | 4812503    | 20.0            | 17.5              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.485    | 13.479         | 0.006         | 93  | 2908180    | 20.0            | 17.1              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.795    | 13.795         | 0.000         | 96  | 3150659    | 20.0            | 17.9              |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 94  | 3169437    | 20.0            | 16.9              |       |
| 64 n-Octane                    | 43  | 14.159    | 14.153         | 0.006         | 89  | 3444502    | 20.0            | 16.8              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 1135221346 | 20.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 96  | 2845044    | 20.0            | 17.0              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.031    | 15.031         | 0.000         | 97  | 1750288    | 20.0            | 17.2              |       |
| 68 Tetrachloroethene           | 166 | 15.149    | 15.143         | 0.006         | 96  | 4287756    | 20.0            | 19.1              |       |
| 69 2-Hexanone                  | 43  | 15.512    | 15.518         | -0.006        | 94  | 3189962    | 20.0            | 19.3              |       |
| 71 Chlorodibromomethane        | 129 | 15.791    | 15.790         | 0.001         | 97  | 5306808    | 20.0            | 19.5              |       |
| 72 Ethylene Dibromide          | 107 | 16.053    | 16.053         | 0.000         | 99  | 3755698    | 20.0            | 18.3              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.968    | 16.962         | 0.006         | 84  | 4636572    | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 96  | 5162562    | 20.0            | 17.9              |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 98  | 7378266    | 20.0            | 17.4              |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 85  | 3204291    | 20.0            | 17.3              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0   | 6046753    | 40.0            | 35.3              |       |
| 79 o-Xylene                    | 106 | 18.300    | 18.294         | 0.006         | 99  | 2881433    | 20.0            | 17.7              |       |
| 80 Styrene                     | 104 | 18.353    | 18.348         | 0.005         | 98  | 4735875    | 20.0            | 19.0              |       |
| 81 Bromoform                   | 173 | 18.792    | 18.786         | 0.006         | 96  | 5408954    | 20.0            | 22.0              |       |
| 82 Isopropylbenzene            | 105 | 19.054    | 19.048         | 0.006         | 96  | 8625268    | 20.0            | 18.1              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |            | 60.0            | 53.0              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 99  | 4694500    | 20.0            | 18.1              |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 99  | 10131225   | 20.0            | 17.9              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 97  | 3726635    | 20.0            | 16.9              |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 96  | 7644964    | 20.0            | 17.8              |       |
| 88 4-Ethyltoluene              | 105 | 20.065    | 20.060         | 0.005         | 98  | 8937124    | 20.0            | 18.5              |       |
| 87 n-Decane                    | 57  | 20.086    | 20.086         | 0.000         | 93  | 3946033    | 20.0            | 17.3              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.183    | 20.177         | 0.006         | 94  | 7555721    | 20.0            | 18.3              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 91 | 4096139  | 20.0            | 21.1              |       |
| 92 tert-Butylbenzene       | 119 | 20.702    | 20.702        | 0.000         | 92 | 7149602  | 20.0            | 18.5              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 97 | 7550261  | 20.0            | 18.5              |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 98 | 10673825 | 20.0            | 18.6              |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 97 | 9594097  | 20.0            | 19.5              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.279    | 21.279        | 0.000         | 95 | 6341580  | 20.0            | 19.2              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 95 | 5978083  | 20.0            | 18.9              |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 99 | 7695730  | 20.0            | 19.7              |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 99 | 8493710  | 20.0            | 19.0              |       |
| 99 Undecane                | 57  | 21.911    | 21.911        | 0.000         | 93 | 4461241  | 20.0            | 17.7              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 96 | 5743225  | 20.0            | 18.9              |       |
| 102 Dodecane               | 57  | 23.446    | 23.441        | 0.005         | 98 | 3804271  | 20.0            | 18.9              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 4536179  | 20.0            | 19.9              |       |
| 104 Hexachlorobutadiene    | 225 | 24.537    | 24.537        | 0.000         | 98 | 4192325  | 20.0            | 18.5              |       |
| 105 Naphthalene            | 128 | 24.789    | 24.783        | 0.006         | 99 | 9205645  | 20.0            | 20.8              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 3934722  | 20.0            | 20.0              |       |

**Reagents:**

ATTO15CAL6w\_00158

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent



TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-010.D

Injection Date: 28-Nov-2018 01:25:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 10

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

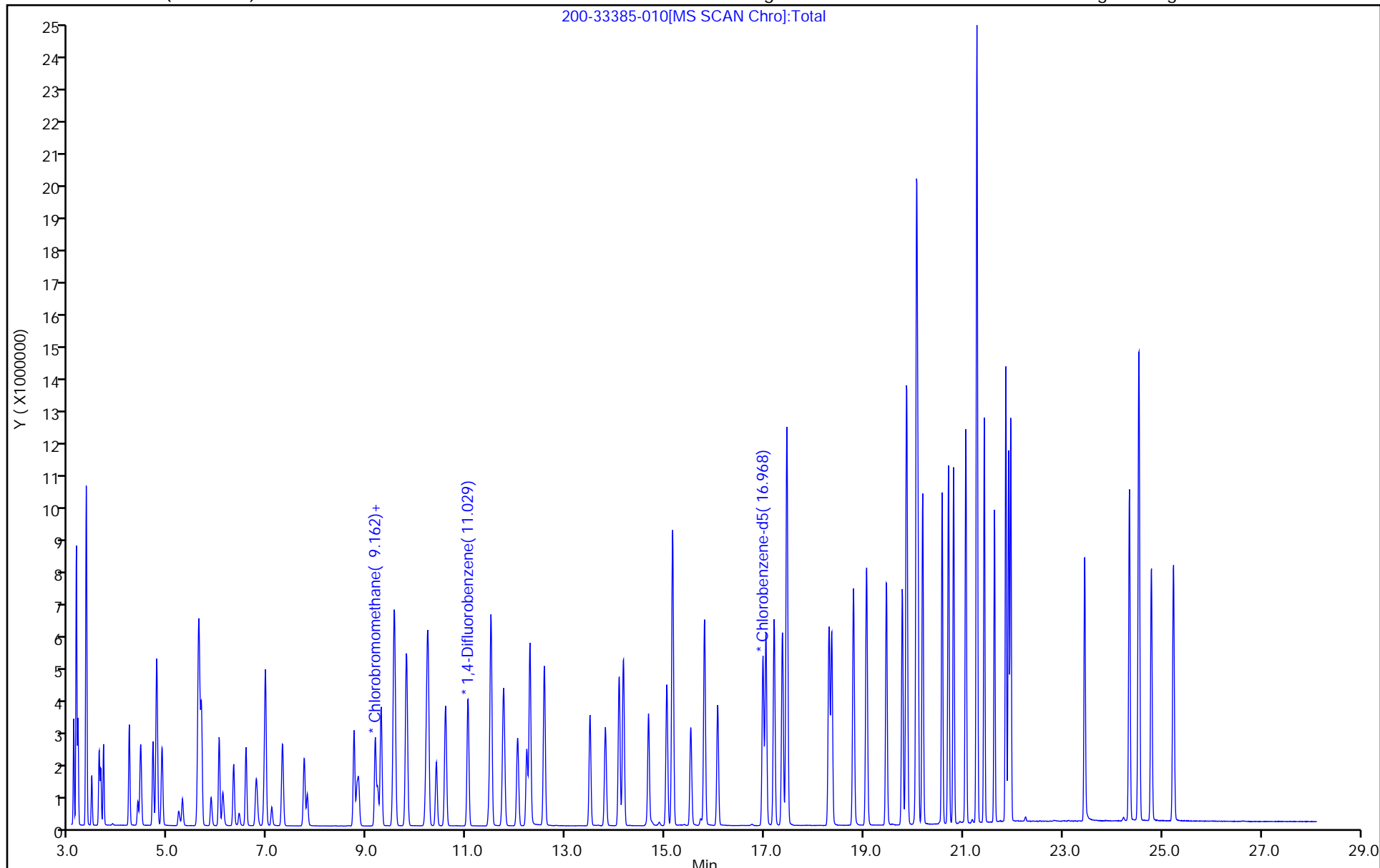
ALS Bottle#: 9

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 28-Nov-2018 02:15:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-011  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 11:37:42 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: desjardinsb Date: 28-Nov-2018 08:19:04

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.085     | 3.090         | -0.005         | 97  | 2699122  | 40.0            | 34.9              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.138     | 3.144         | -0.006         | 97  | 13419981 | 40.0            | 32.1              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000          | 96  | 6227733  | 40.0            | 35.0              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000          | 97  | 10569525 | 40.0            | 33.6              |       |
| 5 Chloromethane               | 50  | 3.449     | 3.454         | -0.005         | 99  | 2915590  | 40.0            | 35.9              |       |
| 6 Butane                      | 43  | 3.598     | 3.604         | -0.006         | 97  | 3758112  | 40.0            | 34.3              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000          | 98  | 3380364  | 40.0            | 34.5              |       |
| 8 Butadiene                   | 54  | 3.689     | 3.689         | 0.000          | 93  | 2174691  | 40.0            | 35.7              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000          | 97  | 4157469  | 40.0            | 36.8              |       |
| 11 Chloroethane               | 64  | 4.379     | 4.380         | -0.001         | 99  | 1365037  | 40.0            | 36.2              |       |
| 12 2-Methylbutane             | 43  | 4.438     | 4.438         | 0.000          | 88  | 2489976  | 40.0            | 34.5              |       |
| 13 Vinyl bromide              | 106 | 4.684     | 4.685         | 0.000          | 98  | 4118977  | 40.0            | 36.9              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000          | 97  | 11375500 | 40.0            | 34.5              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000          | 99  | 3791215  | 40.0            | 34.7              |       |
| 17 Ethanol                    | 45  | 5.209     | 5.209         | 0.000          | 97  | 1712095  | 100.0           | 75.6              |       |
| 18 Ethyl ether                | 59  | 5.278     | 5.278         | 0.000          | 96  | 1271570  | 40.0            | 33.1              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.594         | 0.000          | 97  | 543303   | 40.0            | 37.0              | M     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.610     | 5.605         | 0.005          | 96  | 8372996  | 40.0            | 36.0              |       |
| 21 1,1-Dichloroethene         | 96  | 5.663     | 5.658         | 0.005          | 96  | 3757862  | 40.0            | 36.7              |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000          | 99  | 2950498  | 40.0            | 33.8              |       |
| 23 Carbon disulfide           | 76  | 6.022     | 6.017         | 0.005          | 99  | 9566310  | 40.0            | 36.3              |       |
| 24 Isopropyl alcohol          | 45  | 6.097     | 6.097         | 0.000          | 100 | 3508874  | 40.0            | 36.4              |       |
| 25 3-Chloro-1-propene         | 41  | 6.311     | 6.311         | 0.000          | 95  | 2757743  | 40.0            | 36.2              |       |
| 26 Acetonitrile               | 41  | 6.423     | 6.423         | 0.000          | 97  | 1118502  | 40.0            | 35.1              |       |
| 27 Methylene Chloride         | 49  | 6.557     | 6.557         | 0.000          | 87  | 3256585  | 40.0            | 35.2              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.771     | 6.771         | 0.000          | 93  | 5538463  | 40.0            | 37.6              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000          | 94  | 6807313  | 40.0            | 34.2              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.953     | 6.947         | 0.006          | 93  | 4421717  | 40.0            | 35.6              |       |
| 32 Acrylonitrile              | 53  | 7.081     | 7.076         | 0.005          | 93  | 1255166  | 40.0            | 36.1              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000          | 91  | 3635199  | 40.0            | 36.8              |       |
| 34 1,1-Dichloroethane         | 63  | 7.734     | 7.728         | 0.006          | 99  | 5626599  | 40.0            | 35.1              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response   | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|------------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.793     | 7.793          | 0.000         | 100 | 4349907    | 40.0            | 35.9              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 88  | 3807961    | 40.0            | 39.3              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 100 | 1082953    | 40.0            | 34.6              |       |
| 39 Ethyl acetate               | 88  | 8.830     | 8.831          | -0.001        | 99  | 163260     | 40.0            | 36.6              |       |
| * 40 Chlorobromomethane        | 128 | 9.167     | 9.162          | 0.005         | 74  | 1119961    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 84  | 1902316    | 40.0            | 32.2              |       |
| 42 Chloroform                  | 83  | 9.280     | 9.275          | 0.005         | 96  | 8572568    | 40.0            | 36.6              |       |
| 43 Cyclohexane                 | 84  | 9.537     | 9.537          | 0.000         | 94  | 4051197    | 40.0            | 34.1              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.553     | 9.547          | 0.006         | 95  | 9855828    | 40.0            | 34.2              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |            | 80.0            | 74.9              |       |
| 45 Carbon tetrachloride        | 117 | 9.793     | 9.788          | 0.005         | 96  | 11237527   | 40.0            | 36.5              |       |
| 46 Isooctane                   | 57  | 10.205    | 10.205         | 0.000         | 97  | 13317097   | 40.0            | 33.9              |       |
| 47 Benzene                     | 78  | 10.227    | 10.221         | 0.006         | 95  | 9811343    | 40.0            | 35.6              |       |
| 48 1,2-Dichloroethane          | 62  | 10.393    | 10.387         | 0.006         | 99  | 5487945    | 40.0            | 34.4              |       |
| 49 n-Heptane                   | 43  | 10.580    | 10.575         | 0.005         | 89  | 4741703    | 40.0            | 33.4              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.029    | 11.024         | 0.005         | 93  | 5180808    | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.457    | 11.463         | -0.006        | 89  | 1724262    | 40.0            | 36.9              |       |
| 53 Trichloroethene             | 95  | 11.495    | 11.489         | 0.006         | 99  | 6338766    | 40.0            | 35.1              |       |
| 54 1,2-Dichloropropane         | 63  | 12.030    | 12.024         | 0.006         | 86  | 3457600    | 40.0            | 35.6              |       |
| 55 Methyl methacrylate         | 69  | 12.217    | 12.217         | 0.000         | 96  | 2914700    | 40.0            | 36.3              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 1475492449 | 40.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.281    | 12.276         | 0.005         | 94  | 6458681    | 40.0            | 38.8              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.281         | 0.000         | 90  | 1725135    | 40.0            | 34.0              |       |
| 58 Dichlorobromomethane        | 83  | 12.570    | 12.565         | 0.005         | 99  | 10293890   | 40.0            | 36.7              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.485    | 13.479         | 0.006         | 92  | 6564618    | 40.0            | 37.8              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.795    | 13.795         | 0.000         | 96  | 6422005    | 40.0            | 35.8              |       |
| 65 Toluene                     | 92  | 14.073    | 14.068         | 0.005         | 96  | 7579326    | 40.0            | 38.4              |       |
| 64 n-Octane                    | 43  | 14.159    | 14.153         | 0.006         | 87  | 7159103    | 40.0            | 34.3              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 2380698963 | 40.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 96  | 6478563    | 40.0            | 37.9              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.036    | 15.031         | 0.005         | 96  | 3930810    | 40.0            | 36.8              |       |
| 68 Tetrachloroethene           | 166 | 15.154    | 15.143         | 0.011         | 97  | 9530791    | 40.0            | 40.3              |       |
| 69 2-Hexanone                  | 43  | 15.512    | 15.518         | -0.006        | 95  | 6477478    | 40.0            | 37.3              |       |
| 71 Chlorodibromomethane        | 129 | 15.790    | 15.790         | 0.000         | 96  | 11959307   | 40.0            | 41.8              |       |
| 72 Ethylene Dibromide          | 107 | 16.058    | 16.053         | 0.005         | 100 | 8668262    | 40.0            | 40.2              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.967    | 16.962         | 0.005         | 83  | 4877774    | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 96  | 11904403   | 40.0            | 39.2              |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 97  | 16537592   | 40.0            | 37.2              |       |
| 77 n-Nonane                    | 57  | 17.363    | 17.358         | 0.005         | 88  | 7015829    | 40.0            | 36.1              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0   | 14227820   | 80.0            | 78.9              | e     |
| 79 o-Xylene                    | 106 | 18.299    | 18.294         | 0.005         | 99  | 6699071    | 40.0            | 39.1              |       |
| 80 Styrene                     | 104 | 18.353    | 18.348         | 0.005         | 97  | 10969590   | 40.0            | 41.8              |       |
| 81 Bromoform                   | 173 | 18.792    | 18.786         | 0.006         | 96  | 11998176   | 40.0            | 46.4              |       |
| 82 Isopropylbenzene            | 105 | 19.054    | 19.048         | 0.006         | 96  | 19146334   | 40.0            | 38.2              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |            | 120.0           | 118.0             |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.776    | 19.771         | 0.005         | 98  | 9888341    | 40.0            | 36.2              |       |
| 85 N-Propylbenzene             | 91  | 19.856    | 19.851         | 0.005         | 97  | 20945257   | 40.0            | 35.1              | e     |
| 86 1,2,3-Trichloropropane      | 75  | 19.872    | 19.867         | 0.005         | 95  | 7781871    | 40.0            | 33.5              |       |
| 89 2-Chlorotoluene             | 91  | 20.059    | 20.054         | 0.005         | 95  | 16128555   | 40.0            | 35.8              |       |
| 88 4-Ethyltoluene              | 105 | 20.065    | 20.060         | 0.005         | 96  | 19068557   | 40.0            | 37.5              |       |
| 87 n-Decane                    | 57  | 20.092    | 20.086         | 0.006         | 93  | 8101213    | 40.0            | 33.7              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.188    | 20.177         | 0.011         | 95  | 16252663   | 40.0            | 37.4              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.578    | 20.573        | 0.005         | 93 | 9352072  | 40.0            | 45.8              |       |
| 92 tert-Butylbenzene       | 119 | 20.707    | 20.702        | 0.005         | 93 | 15852197 | 40.0            | 39.0              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.808    | 20.803        | 0.005         | 96 | 16033863 | 40.0            | 37.4              |       |
| 94 sec-Butylbenzene        | 105 | 21.044    | 21.049        | -0.005        | 97 | 20565381 | 40.0            | 34.1              | e     |
| 95 4-Isopropyltoluene      | 119 | 21.268    | 21.269        | -0.001        | 94 | 18636156 | 40.0            | 36.1              | e     |
| 96 1,3-Dichlorobenzene     | 146 | 21.285    | 21.279        | 0.005         | 95 | 13465059 | 40.0            | 38.7              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 92 | 12802544 | 40.0            | 38.5              |       |
| 98 Benzyl chloride         | 91  | 21.632    | 21.627        | 0.005         | 99 | 15523695 | 40.0            | 37.8              | e     |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 95 | 16429525 | 40.0            | 34.9              | e     |
| 99 Undecane                | 57  | 21.916    | 21.911        | 0.005         | 91 | 8868673  | 40.0            | 33.5              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.959    | 21.953        | 0.006         | 94 | 12229345 | 40.0            | 38.3              |       |
| 102 Dodecane               | 57  | 23.446    | 23.441        | 0.005         | 97 | 7604798  | 40.0            | 35.8              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 9605184  | 40.0            | 40.0              |       |
| 104 Hexachlorobutadiene    | 225 | 24.537    | 24.537        | 0.000         | 97 | 8641895  | 40.0            | 36.2              |       |
| 105 Naphthalene            | 128 | 24.789    | 24.783        | 0.006         | 99 | 18868971 | 40.0            | 40.5              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 94 | 8204087  | 40.0            | 39.6              |       |

### QC Flag Legend

#### Processing Flags

e - Potential Peak Saturated

#### Review Flags

M - Manually Integrated

### Reagents:

ATTO15CAL7w\_00079

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D

Injection Date: 28-Nov-2018 02:15:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: ic

Worklist Smp#: 11

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

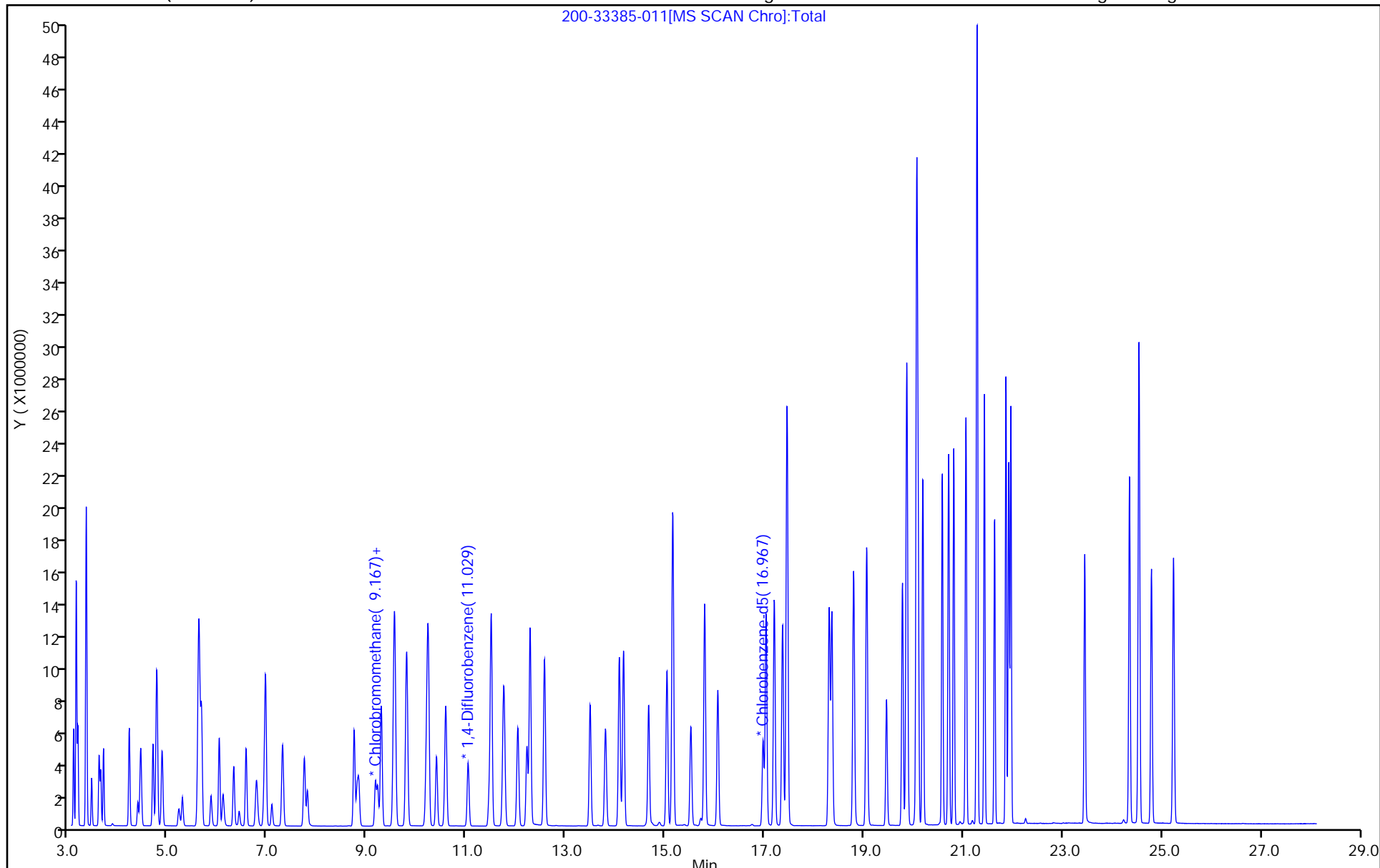
ALS Bottle#: 10

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

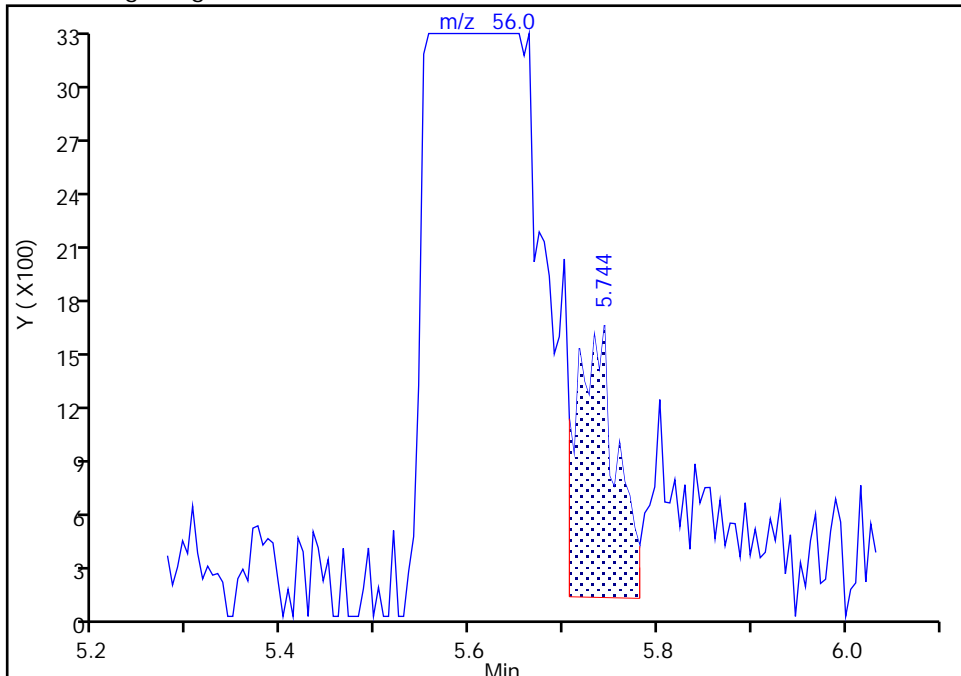
Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
Injection Date: 28-Nov-2018 02:15:30 Instrument ID: CHG.i  
Lims ID: ic  
Client ID:  
Operator ID: vtp ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

19 Acrolein, CAS: 107-02-8

Signal: 1

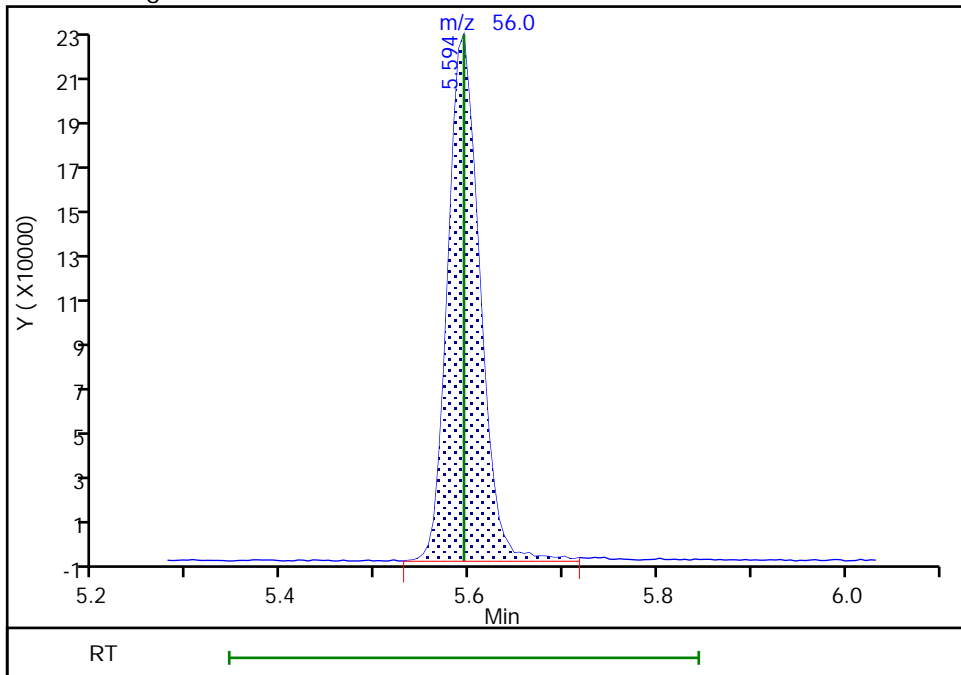
RT: 5.74  
Area: 4400  
Amount: 0.366909  
Amount Units: ppb v/v

Processing Integration Results



RT: 5.59  
Area: 543303  
Amount: 36.991832  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: mickd, 28-Nov-2018 10:26:02  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                        | Ave        | 0.3986  | 0.3235 |         | 8.11        | 10.0         | -18.8 | 30.0   |
| Dichlorodifluoromethane          | Ave        | 1.959   | 1.775  |         | 9.06        | 10.0         | -9.4  | 30.0   |
| Chlorodifluoromethane            | Ave        | 0.9872  | 0.8622 |         | 8.73        | 10.0         | -12.7 | 30.0   |
| 1,2-Dichlorotetrafluoroethane    | Ave        | 1.533   | 1.553  |         | 10.1        | 10.0         | 1.3   | 30.0   |
| Chloromethane                    | Ave        | 0.3700  | 0.3194 |         | 8.63        | 10.0         | -13.7 | 30.0   |
| n-Butane                         | Ave        | 0.5525  | 0.4912 |         | 8.89        | 10.0         | -11.1 | 30.0   |
| Vinyl chloride                   | Ave        | 0.4247  | 0.3794 |         | 8.93        | 10.0         | -10.7 | 30.0   |
| 1,3-Butadiene                    | Ave        | 0.2826  | 0.2554 |         | 9.04        | 10.0         | -9.6  | 30.0   |
| Bromomethane                     | Ave        | 0.3818  | 0.3801 |         | 9.95        | 10.0         | -0.4  | 30.0   |
| Chloroethane                     | Ave        | 0.1626  | 0.1572 |         | 9.66        | 10.0         | -3.3  | 30.0   |
| Isopentane                       | Ave        | 0.3215  | 0.3011 |         | 9.36        | 10.0         | -6.4  | 30.0   |
| Bromoethene (Vinyl Bromide)      | Ave        | 0.4632  | 0.4896 |         | 10.6        | 10.0         | 5.7   | 30.0   |
| Trichlorofluoromethane           | Ave        | 1.807   | 1.770  |         | 9.79        | 10.0         | -2.1  | 30.0   |
| n-Pentane                        | Ave        | 0.6539  | 0.5840 |         | 8.93        | 10.0         | -10.7 | 30.0   |
| Ethanol                          | Ave        | 0.1517  | 0.1390 |         | 13.7        | 15.0         | -8.4  | 30.0   |
| Ethyl ether                      | Ave        | 0.2870  | 0.2961 |         | 10.3        | 10.0         | 3.2   | 30.0   |
| Acrolein                         | Ave        | 0.1328  | 0.1374 |         | 10.3        | 10.0         | 3.5   | 30.0   |
| 1,1,2-Trichlorotrifluoroethane   | Ave        | 1.179   | 1.038  |         | 8.81        | 10.0         | -11.9 | 30.0   |
| 1,1-Dichloroethene               | Ave        | 0.4775  | 0.4253 |         | 8.90        | 10.0         | -10.9 | 30.0   |
| Acetone                          | Ave        | 0.7942  | 0.6500 |         | 8.18        | 10.0         | -18.2 | 30.0   |
| Carbon disulfide                 | Ave        | 1.318   | 1.233  |         | 9.36        | 10.0         | -6.4  | 30.0   |
| Isopropyl alcohol                | Ave        | 0.6986  | 0.5670 |         | 8.11        | 10.0         | -18.8 | 30.0   |
| 3-Chloropropene                  | Ave        | 0.4710  | 0.3908 |         | 8.29        | 10.0         | -17.0 | 30.0   |
| Acetonitrile                     | Ave        | 0.2466  | 0.2263 |         | 9.18        | 10.0         | -8.2  | 30.0   |
| Methylene Chloride               | Ave        | 0.5431  | 0.4372 |         | 8.05        | 10.0         | -19.5 | 30.0   |
| tert-Butyl alcohol               | Ave        | 1.056   | 1.012  |         | 9.58        | 10.0         | -4.1  | 30.0   |
| Methyl tert-butyl ether          | Ave        | 1.570   | 1.477  |         | 9.40        | 10.0         | -6.0  | 30.0   |
| trans-1,2-Dichloroethene         | Ave        | 0.7089  | 0.6887 |         | 9.71        | 10.0         | -2.9  | 30.0   |
| Acrylonitrile                    | Ave        | 0.2644  | 0.2488 |         | 9.40        | 10.0         | -5.9  | 30.0   |
| n-Hexane                         | Ave        | 0.6203  | 0.5836 |         | 9.41        | 10.0         | -5.9  | 30.0   |
| 1,1-Dichloroethane               | Ave        | 0.9177  | 0.8076 |         | 8.80        | 10.0         | -12.0 | 30.0   |
| Vinyl acetate                    | Ave        | 1.111   | 0.9884 |         | 8.90        | 10.0         | -11.0 | 30.0   |
| cis-1,2-Dichloroethene           | Ave        | 0.5466  | 0.5099 |         | 9.33        | 10.0         | -6.7  | 30.0   |
| Methyl Ethyl Ketone (2-Butanone) | Ave        | 0.2302  | 0.2124 |         | 9.22        | 10.0         | -7.8  | 30.0   |
| Ethyl acetate                    | Ave        | 0.0440  | 0.0427 |         | 9.70        | 10.0         | -2.9  | 30.0   |
| Tetrahydrofuran                  | Ave        | 0.0785  | 0.0683 |         | 8.69        | 10.0         | -13.1 | 30.0   |
| Chloroform                       | Ave        | 1.313   | 1.261  |         | 9.60        | 10.0         | -4.0  | 30.0   |
| Cyclohexane                      | Ave        | 0.1265  | 0.1169 |         | 9.24        | 10.0         | -7.6  | 30.0   |
| 1,1,1-Trichloroethane            | Ave        | 0.3037  | 0.2677 |         | 8.81        | 10.0         | -11.9 | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Carbon tetrachloride                          | Ave        | 0.3279  | 0.3013 |         | 9.19        | 10.0         | -8.1  | 30.0   |
| 2,2,4-Trimethylpentane                        | Ave        | 0.4437  | 0.3805 |         | 8.57        | 10.0         | -14.2 | 30.0   |
| Benzene                                       | Ave        | 0.3141  | 0.2766 |         | 8.80        | 10.0         | -12.0 | 30.0   |
| 1,2-Dichloroethane                            | Ave        | 0.2032  | 0.1736 |         | 8.54        | 10.0         | -14.6 | 30.0   |
| n-Heptane                                     | Ave        | 0.1609  | 0.1322 |         | 8.22        | 10.0         | -17.8 | 30.0   |
| n-Butanol                                     | Ave        | 0.0614  | 0.0609 |         | 9.92        | 10.0         | -0.8  | 30.0   |
| Trichloroethene                               | Ave        | 0.1721  | 0.1682 |         | 9.77        | 10.0         | -2.3  | 30.0   |
| 1,2-Dichloropropane                           | Ave        | 0.1221  | 0.1082 |         | 8.86        | 10.0         | -11.4 | 30.0   |
| Methyl methacrylate                           | Ave        | 0.1267  | 0.1176 |         | 9.28        | 10.0         | -7.2  | 30.0   |
| 1,4-Dioxane                                   | Ave        | 0.0767  | 0.0712 |         | 9.29        | 10.0         | -7.1  | 30.0   |
| Dibromomethane                                | Ave        | 0.1941  | 0.1905 |         | 9.81        | 10.0         | -1.8  | 30.0   |
| Bromodichloromethane                          | Ave        | 0.3270  | 0.3023 |         | 9.24        | 10.0         | -7.5  | 30.0   |
| cis-1,3-Dichloropropene                       | Ave        | 0.2385  | 0.2092 |         | 8.77        | 10.0         | -12.3 | 30.0   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave        | 0.2579  | 0.2135 |         | 8.28        | 10.0         | -17.2 | 30.0   |
| Toluene                                       | Ave        | 0.2747  | 0.2610 |         | 9.50        | 10.0         | -5.0  | 30.0   |
| n-Octane                                      | Ave        | 0.2542  | 0.2161 |         | 8.50        | 10.0         | -15.0 | 30.0   |
| trans-1,3-Dichloropropene                     | Ave        | 0.2450  | 0.2313 |         | 9.44        | 10.0         | -5.6  | 30.0   |
| 1,1,2-Trichloroethane                         | Ave        | 0.1329  | 0.1231 |         | 9.26        | 10.0         | -7.4  | 30.0   |
| Tetrachloroethene                             | Ave        | 0.2774  | 0.2744 |         | 9.89        | 10.0         | -1.1  | 30.0   |
| Methyl Butyl Ketone (2-Hexanone)              | Ave        | 0.2497  | 0.2029 |         | 8.12        | 10.0         | -18.7 | 30.0   |
| Dibromochloromethane                          | Ave        | 0.3169  | 0.3155 |         | 9.96        | 10.0         | -0.4  | 30.0   |
| 1,2-Dibromoethane                             | Ave        | 0.2651  | 0.2590 |         | 9.77        | 10.0         | -2.3  | 30.0   |
| Chlorobenzene                                 | Ave        | 0.3827  | 0.3717 |         | 9.71        | 10.0         | -2.9  | 30.0   |
| Ethylbenzene                                  | Ave        | 0.6400  | 0.6041 |         | 9.44        | 10.0         | -5.6  | 30.0   |
| n-Nonane                                      | Ave        | 0.2581  | 0.2257 |         | 8.74        | 10.0         | -12.6 | 30.0   |
| m,p-Xylene                                    | Ave        | 0.2354  | 0.2303 |         | 19.6        | 20.0         | -2.2  | 30.0   |
| o-Xylene                                      | Ave        | 0.2305  | 0.2315 |         | 10.0        | 10.0         | 0.5   | 30.0   |
| Styrene                                       | Ave        | 0.3558  | 0.3587 |         | 10.1        | 10.0         | 0.8   | 30.0   |
| Bromoform                                     | Ave        | 0.2871  | 0.3315 |         | 11.5        | 10.0         | 15.4  | 30.0   |
| Cumene  | Ave        | 0.7356  | 0.7228 |         | 9.83        | 10.0         | -1.7  | 30.0   |
| 1,1,2,2-Tetrachloroethane                     | Ave        | 0.3411  | 0.3125 |         | 9.16        | 10.0         | -8.4  | 30.0   |
| n-Propylbenzene                               | Ave        | 0.8615  | 0.8293 |         | 9.62        | 10.0         | -3.7  | 30.0   |
| 1,2,3-Trichloropropane                        | Ave        | 0.2950  | 0.2596 |         | 8.80        | 10.0         | -12.0 | 30.0   |
| 2-Chlorotoluene                               | Ave        | 0.6244  | 0.5935 |         | 9.50        | 10.0         | -4.9  | 30.0   |
| 4-Ethyltoluene                                | Ave        | 0.7192  | 0.7297 |         | 10.1        | 10.0         | 1.5   | 30.0   |
| n-Decane                                      | Ave        | 0.3232  | 0.2826 |         | 8.74        | 10.0         | -12.6 | 30.0   |
| 1,3,5-Trimethylbenzene                        | Ave        | 0.6484  | 0.6416 |         | 9.89        | 10.0         | -1.0  | 30.0   |
| Alpha Methyl Styrene                          | Ave        | 0.2952  | 0.3052 |         | 10.3        | 10.0         | 3.4   | 30.0   |
| tert-Butylbenzene                             | Ave        | 0.6169  | 0.6130 |         | 9.93        | 10.0         | -0.6  | 30.0   |
| 1,2,4-Trimethylbenzene                        | Ave        | 0.6499  | 0.6418 |         | 9.87        | 10.0         | -1.2  | 30.0   |



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137783/21 Calibration Date: 12/05/2018 11:56  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33516-21.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| sec-Butylbenzene       | Ave        | 0.8947  | 0.8806 |         | 9.84        | 10.0         | -1.6  | 30.0   |
| 4-Isopropyltoluene     | Ave        | 0.7850  | 0.7894 |         | 10.1        | 10.0         | 0.6   | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.4395  | 0.4537 |         | 10.3        | 10.0         | 3.2   | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.4460  | 0.4660 |         | 10.4        | 10.0         | 4.5   | 30.0   |
| Benzyl chloride        | Ave        | 0.6101  | 0.5638 |         | 9.24        | 10.0         | -7.6  | 30.0   |
| n-Butylbenzene         | Ave        | 0.7164  | 0.6797 |         | 9.48        | 10.0         | -5.1  | 30.0   |
| n-Undecane             | Ave        | 0.3478  | 0.3236 |         | 9.30        | 10.0         | -7.0  | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.4272  | 0.4384 |         | 10.3        | 10.0         | 2.6   | 30.0   |
| n-Dodecane             | Ave        | 0.3349  | 0.2885 |         | 8.61        | 10.0         | -13.8 | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.3845  | 0.3616 |         | 9.40        | 10.0         | -6.0  | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.3598  | 0.3577 |         | 9.94        | 10.0         | -0.6  | 30.0   |
| Naphthalene            | Ave        | 0.7587  | 0.6440 |         | 8.49        | 10.0         | -15.1 | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.3568  | 0.3100 |         | 8.69        | 10.0         | -13.1 | 30.0   |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-21.D  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 05-Dec-2018 11:56:30 ALS Bottle#: 20 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-021  
 Operator ID: ert Instrument ID: CHC.i  
 Sublist:  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:35:38 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig

Date: 05-Dec-2018 14:17:20

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.967     | 2.962         | 0.005         | 92  | 84363    | 10.0            | 8.11              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.037     | 3.031         | 0.006         | 100 | 462932   | 10.0            | 9.06              |       |
| 3 Chlorodifluoromethane       | 51  | 3.085     | 3.080         | 0.005         | 97  | 224838   | 10.0            | 8.73              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.293     | 3.288         | 0.005         | 92  | 404987   | 10.0            | 10.1              |       |
| 5 Chloromethane               | 50  | 3.421     | 3.416         | 0.005         | 98  | 83294    | 10.0            | 8.63              |       |
| 6 Butane                      | 43  | 3.618     | 3.619         | -0.001        | 93  | 128101   | 10.0            | 8.89              |       |
| 7 Vinyl chloride              | 62  | 3.661     | 3.656         | 0.005         | 100 | 98949    | 10.0            | 8.93              |       |
| 8 Butadiene                   | 54  | 3.736     | 3.731         | 0.005         | 95  | 66603    | 10.0            | 9.04              |       |
| 10 Bromomethane               | 94  | 4.398     | 4.392         | 0.006         | 96  | 99109    | 10.0            | 9.95              |       |
| 11 Chloroethane               | 64  | 4.638     | 4.627         | 0.011         | 97  | 40993    | 10.0            | 9.66              |       |
| 12 2-Methylbutane             | 43  | 4.723     | 4.713         | 0.010         | 83  | 78523    | 10.0            | 9.36              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 13 Vinyl bromide              | 106 | 5.027     | 5.022         | 0.005         | 98  | 127674   | 10.0            | 10.6              |       |
| 14 Trichlorofluoromethane     | 101 | 5.139     | 5.134         | 0.005         | 99  | 461558   | 10.0            | 9.79              |       |
| 16 Pentane                    | 43  | 5.289     | 5.284         | 0.005         | 95  | 152280   | 10.0            | 8.93              |       |
| 17 Ethanol                    | 45  | 5.721     | 5.716         | 0.005         | 96  | 54377    | 15.0            | 13.7              |       |
| 18 Ethyl ether                | 59  | 5.801     | 5.801         | 0.000         | 95  | 77220    | 10.0            | 10.3              |       |
| 19 Acrolein                   | 56  | 6.164     | 6.159         | 0.005         | 98  | 35840    | 10.0            | 10.3              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.228     | 6.223         | 0.005         | 96  | 270753   | 10.0            | 8.81              |       |
| 21 1,1-Dichloroethene         | 96  | 6.255     | 6.250         | 0.005         | 97  | 110895   | 10.0            | 8.90              |       |
| 22 Acetone                    | 43  | 6.474     | 6.468         | 0.006         | 100 | 169491   | 10.0            | 8.18              |       |
| 23 Carbon disulfide           | 76  | 6.628     | 6.629         | -0.001        | 100 | 321611   | 10.0            | 9.36              |       |
| 24 Isopropyl alcohol          | 45  | 6.799     | 6.794         | 0.005         | 98  | 147854   | 10.0            | 8.11              |       |
| 25 3-Chloro-1-propene         | 41  | 7.039     | 7.039         | 0.000         | 88  | 101903   | 10.0            | 8.29              |       |
| 26 Acetonitrile               | 41  | 7.135     | 7.136         | -0.001        | 96  | 59014    | 10.0            | 9.18              |       |
| 27 Methylene Chloride         | 49  | 7.338     | 7.333         | 0.005         | 91  | 114019   | 10.0            | 8.05              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.573     | 7.573         | 0.000         | 95  | 263856   | 10.0            | 9.58              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.754     | 7.749         | 0.005         | 94  | 385089   | 10.0            | 9.40              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.786     | 7.787         | -0.001        | 98  | 179591   | 10.0            | 9.71              |       |
| 32 Acrylonitrile              | 53  | 7.909     | 7.909         | 0.000         | 89  | 64868    | 10.0            | 9.40              |       |
| 33 Hexane                     | 57  | 8.192     | 8.192         | 0.000         | 86  | 152186   | 10.0            | 9.41              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.651     | 8.651          | 0.000         | 99 | 210610    | 10.0            | 8.80              |       |
| 35 Vinyl acetate               | 43  | 8.742     | 8.737          | 0.005         | 99 | 257759    | 10.0            | 8.90              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.766     | 9.767          | -0.001        | 94 | 132963    | 10.0            | 9.33              |       |
| 38 2-Butanone (MEK)            | 72  | 9.804     | 9.804          | 0.000         | 99 | 55379     | 10.0            | 9.22              |       |
| 39 Ethyl acetate               | 88  | 9.873     | 9.873          | 0.000         | 99 | 11145     | 10.0            | 9.70              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0  |           | 20.0            | 19.0              |       |
| * 40 Chlorobromomethane        | 128 | 10.231    | 10.226         | 0.005         | 77 | 260828    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.236    | 10.231         | 0.005         | 79 | 103472    | 10.0            | 8.69              |       |
| 42 Chloroform                  | 83  | 10.375    | 10.370         | 0.005         | 97 | 328753    | 10.0            | 9.60              |       |
| 43 Cyclohexane                 | 84  | 10.626    | 10.626         | 0.000         | 92 | 177175    | 10.0            | 9.24              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.642    | 10.642         | 0.000         | 94 | 405628    | 10.0            | 8.81              |       |
| 45 Carbon tetrachloride        | 117 | 10.903    | 10.898         | 0.005         | 99 | 456617    | 10.0            | 9.19              |       |
| 46 Isooctane                   | 57  | 11.346    | 11.352         | -0.006        | 96 | 576615    | 10.0            | 8.57              |       |
| 47 Benzene                     | 78  | 11.352    | 11.352         | 0.000         | 97 | 419085    | 10.0            | 8.80              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99 | 263095    | 10.0            | 8.54              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.757         | 0.000         | 83 | 200329    | 10.0            | 8.22              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.211    | 12.211         | 0.000         | 94 | 1515624   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.622    | 12.617         | 0.005         | 88 | 92302     | 10.0            | 9.92              |       |
| 53 Trichloroethene             | 95  | 12.680    | 12.681         | -0.001        | 98 | 254865    | 10.0            | 9.77              |       |
| A 51 GRO                       | 1   | 12.963    | (4.703-21.224) |               | 0  | 79582984  | 10.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.219    | 13.220         | -0.001        | 80 | 163894    | 10.0            | 8.86              |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 94 | 178183    | 10.0            | 9.28              |       |
| 56 1,4-Dioxane                 | 88  | 13.454    | 13.454         | 0.000         | 90 | 107919    | 10.0            | 9.29              |       |
| 57 Dibromomethane              | 174 | 13.486    | 13.486         | 0.000         | 91 | 288632    | 10.0            | 9.81              |       |
| 58 Dichlorobromomethane        | 83  | 13.801    | 13.801         | 0.000         | 99 | 458145    | 10.0            | 9.24              |       |
| A 59 TVOC as Toluene           | 1   | 14.653    | (2.952-26.353) |               | 0  | 131225815 | 10.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 95 | 316971    | 10.0            | 8.77              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.029    | 15.029         | 0.000         | 93 | 323532    | 10.0            | 8.28              |       |
| 65 Toluene                     | 92  | 15.344    | 15.338         | 0.006         | 93 | 412278    | 10.0            | 9.50              |       |
| 64 n-Octane                    | 43  | 15.445    | 15.445         | 0.000         | 82 | 327423    | 10.0            | 8.50              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.947    | 15.947         | 0.000         | 98 | 350525    | 10.0            | 9.44              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 97 | 194495    | 10.0            | 9.26              |       |
| 68 Tetrachloroethene           | 166 | 16.443    | 16.443         | 0.000         | 96 | 433527    | 10.0            | 9.89              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 96 | 320505    | 10.0            | 8.12              |       |
| 71 Chlorodibromomethane        | 129 | 17.083    | 17.078         | 0.005         | 98 | 498458    | 10.0            | 9.96              |       |
| 72 Ethylene Dibromide          | 107 | 17.334    | 17.334         | 0.000         | 99 | 409139    | 10.0            | 9.77              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.247    | 18.247         | 0.000         | 86 | 1580065   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.306    | 18.306         | 0.000         | 94 | 587129    | 10.0            | 9.71              |       |
| 76 Ethylbenzene                | 91  | 18.466    | 18.466         | 0.000         | 98 | 954248    | 10.0            | 9.44              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 80 | 356505    | 10.0            | 8.74              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.717         | -0.006        | 0  | 727475    | 20.0            | 19.6              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98 | 365783    | 10.0            | 10.0              |       |
| 80 Styrene                     | 104 | 19.602    | 19.603         | -0.001        | 99 | 566653    | 10.0            | 10.1              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 98 | 523618    | 10.0            | 11.5              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |           | 30.0            | 29.6              |       |
| 82 Isopropylbenzene            | 105 | 20.264    | 20.264         | 0.000         | 96 | 1141910   | 10.0            | 9.83              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.931    | 20.931         | 0.000         | 98 | 493616    | 10.0            | 9.16              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 98 | 1310051   | 10.0            | 9.62              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 94 | 410102    | 10.0            | 8.80              |       |
| 89 2-Chlorotoluene             | 91  | 21.203    | 21.204         | -0.001        | 95 | 937581    | 10.0            | 9.50              |       |
| 88 4-Ethyltoluene              | 105 | 21.203    | 21.204         | -0.001        | 98 | 1152759   | 10.0            | 10.1              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 96 | 446368    | 10.0            | 8.74              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 92 | 1013606  | 10.0            | 9.89              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.684    | 21.689        | -0.005        | 88 | 482123   | 10.0            | 10.3              |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000         | 92 | 968355   | 10.0            | 9.93              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.908    | 21.908        | 0.000         | 98 | 1013916  | 10.0            | 9.87              |       |
| 94 sec-Butylbenzene        | 105 | 22.143    | 22.143        | 0.000         | 98 | 1391070  | 10.0            | 9.84              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 1247082  | 10.0            | 10.1              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000         | 98 | 716801   | 10.0            | 10.3              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000         | 95 | 736096   | 10.0            | 10.4              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 890706   | 10.0            | 9.24              |       |
| 100 n-Butylbenzene         | 91  | 22.917    | 22.917        | 0.000         | 98 | 1073722  | 10.0            | 9.48              |       |
| 99 Undecane                | 57  | 22.959    | 22.959        | 0.000         | 89 | 511182   | 10.0            | 9.30              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 96 | 692531   | 10.0            | 10.3              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 94 | 455829   | 10.0            | 8.61              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 94 | 571201   | 10.0            | 9.40              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000         | 98 | 565135   | 10.0            | 9.94              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 1017300  | 10.0            | 8.49              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338    | 26.343        | -0.005        | 96 | 489661   | 10.0            | 8.69              |       |

**Reagents:**

ATTO15LCSW\_00788

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-21.D

Injection Date: 05-Dec-2018 11:56:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: icv

Worklist Smp#: 21

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

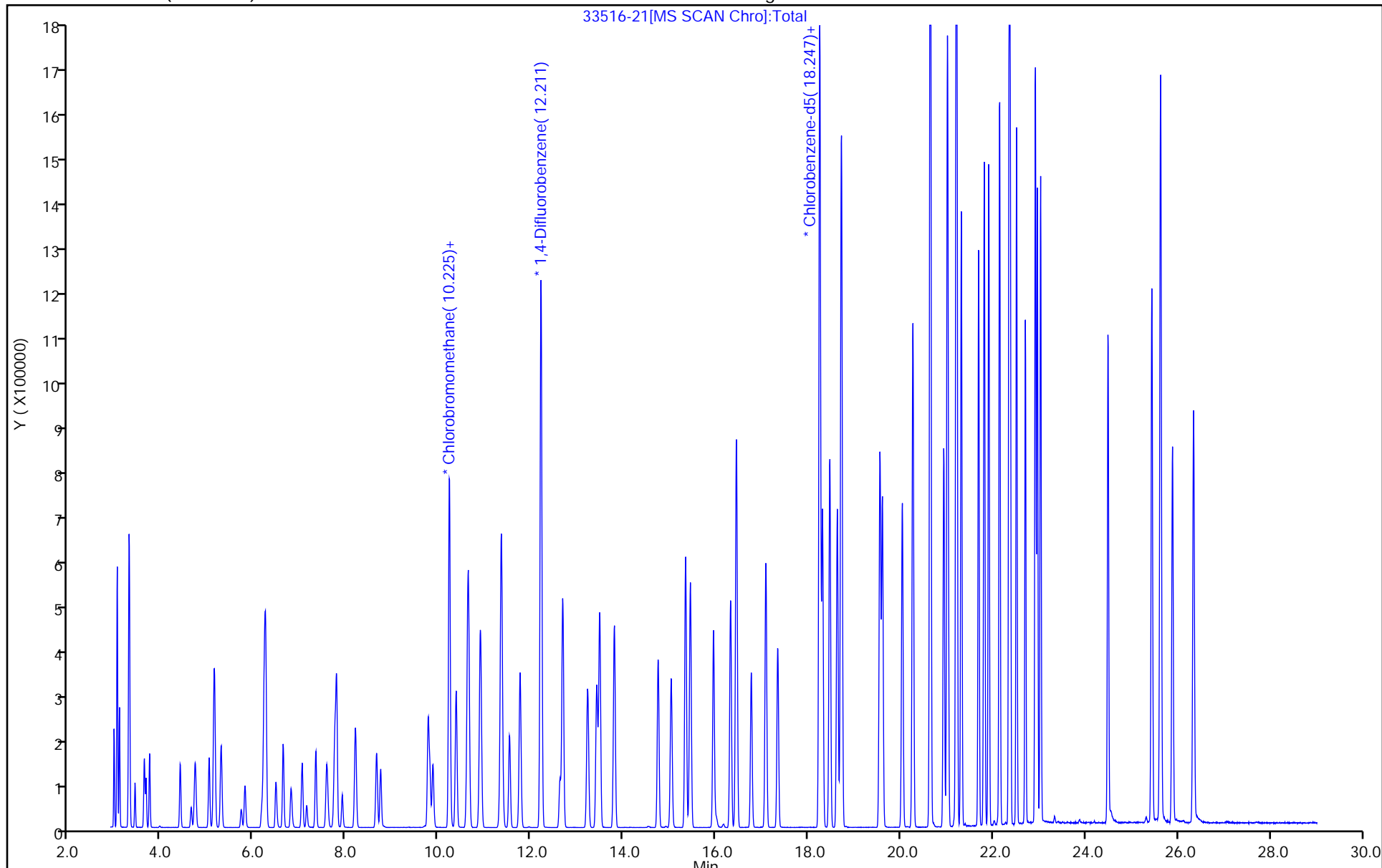
ALS Bottle#: 20

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                        | Ave        | 0.3986  | 0.4250 |         | 10.7        | 10.0         | 6.6   | 30.0   |
| Dichlorodifluoromethane          | Ave        | 1.959   | 1.985  |         | 10.1        | 10.0         | 1.4   | 30.0   |
| Chlorodifluoromethane            | Ave        | 0.9872  | 1.105  |         | 11.2        | 10.0         | 11.9  | 30.0   |
| 1,2-Dichlorotetrafluoroethane    | Ave        | 1.533   | 1.735  |         | 11.3        | 10.0         | 13.2  | 30.0   |
| Chloromethane                    | Ave        | 0.3700  | 0.3956 |         | 10.7        | 10.0         | 6.9   | 30.0   |
| n-Butane                         | Ave        | 0.5525  | 0.6051 |         | 11.0        | 10.0         | 9.5   | 30.0   |
| Vinyl chloride                   | Ave        | 0.4247  | 0.4426 |         | 10.4        | 10.0         | 4.2   | 30.0   |
| 1,3-Butadiene                    | Ave        | 0.2826  | 0.3075 |         | 10.9        | 10.0         | 8.8   | 30.0   |
| Bromomethane                     | Ave        | 0.3818  | 0.4128 |         | 10.8        | 10.0         | 8.1   | 30.0   |
| Chloroethane                     | Ave        | 0.1626  | 0.1783 |         | 11.0        | 10.0         | 9.6   | 30.0   |
| Isopentane                       | Ave        | 0.3215  | 0.3597 |         | 11.2        | 10.0         | 11.9  | 30.0   |
| Bromoethene (Vinyl Bromide)      | Ave        | 0.4632  | 0.5267 |         | 11.4        | 10.0         | 13.7  | 30.0   |
| Trichlorofluoromethane           | Ave        | 1.807   | 1.946  |         | 10.8        | 10.0         | 7.6   | 30.0   |
| n-Pentane                        | Ave        | 0.6539  | 0.7223 |         | 11.0        | 10.0         | 10.5  | 30.0   |
| Ethanol                          | Ave        | 0.1517  | 0.1676 |         | 16.6        | 15.0         | 10.5  | 30.0   |
| Ethyl ether                      | Ave        | 0.2870  | 0.3283 |         | 11.4        | 10.0         | 14.4  | 30.0   |
| Acrolein                         | Ave        | 0.1328  | 0.1490 |         | 11.2        | 10.0         | 12.2  | 30.0   |
| 1,1,2-Trichlorotrifluoroethane   | Ave        | 1.179   | 1.080  |         | 9.16        | 10.0         | -8.4  | 30.0   |
| 1,1-Dichloroethene               | Ave        | 0.4775  | 0.4407 |         | 9.23        | 10.0         | -7.7  | 30.0   |
| Acetone                          | Ave        | 0.7942  | 0.7823 |         | 9.85        | 10.0         | -1.5  | 30.0   |
| Carbon disulfide                 | Ave        | 1.318   | 1.333  |         | 10.1        | 10.0         | 1.2   | 30.0   |
| Isopropyl alcohol                | Ave        | 0.6986  | 0.6354 |         | 9.09        | 10.0         | -9.0  | 30.0   |
| 3-Chloropropene                  | Ave        | 0.4710  | 0.4403 |         | 9.35        | 10.0         | -6.5  | 30.0   |
| Acetonitrile                     | Ave        | 0.2466  | 0.2646 |         | 10.7        | 10.0         | 7.3   | 30.0   |
| Methylene Chloride               | Ave        | 0.5431  | 0.4885 |         | 8.99        | 10.0         | -10.0 | 30.0   |
| tert-Butyl alcohol               | Ave        | 1.056   | 1.087  |         | 10.3        | 10.0         | 3.0   | 30.0   |
| Methyl tert-butyl ether          | Ave        | 1.570   | 1.537  |         | 9.79        | 10.0         | -2.1  | 30.0   |
| trans-1,2-Dichloroethene         | Ave        | 0.7089  | 0.7638 |         | 10.8        | 10.0         | 7.7   | 30.0   |
| Acrylonitrile                    | Ave        | 0.2644  | 0.2781 |         | 10.5        | 10.0         | 5.2   | 30.0   |
| n-Hexane                         | Ave        | 0.6203  | 0.6259 |         | 10.1        | 10.0         | 0.9   | 30.0   |
| 1,1-Dichloroethane               | Ave        | 0.9177  | 0.8829 |         | 9.62        | 10.0         | -3.8  | 30.0   |
| Vinyl acetate                    | Ave        | 1.111   | 1.139  |         | 10.3        | 10.0         | 2.6   | 30.0   |
| cis-1,2-Dichloroethene           | Ave        | 0.5466  | 0.5245 |         | 9.59        | 10.0         | -4.0  | 30.0   |
| Methyl Ethyl Ketone (2-Butanone) | Ave        | 0.2302  | 0.2307 |         | 10.0        | 10.0         | 0.2   | 30.0   |
| Ethyl acetate                    | Ave        | 0.0440  | 0.0426 |         | 9.66        | 10.0         | -3.4  | 30.0   |
| Tetrahydrofuran                  | Ave        | 0.0785  | 0.0802 |         | 10.2        | 10.0         | 2.1   | 30.0   |
| Chloroform                       | Ave        | 1.313   | 1.371  |         | 10.4        | 10.0         | 4.4   | 30.0   |
| Cyclohexane                      | Ave        | 0.1265  | 0.1222 |         | 9.66        | 10.0         | -3.4  | 30.0   |
| 1,1,1-Trichloroethane            | Ave        | 0.3037  | 0.2901 |         | 9.55        | 10.0         | -4.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D   | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|------|--------|
| Carbon tetrachloride                          | Ave        | 0.3279  | 0.3212 |         | 9.79        | 10.0         | -2.0 | 30.0   |
| 2,2,4-Trimethylpentane                        | Ave        | 0.4437  | 0.4307 |         | 9.70        | 10.0         | -2.9 | 30.0   |
| Benzene                                       | Ave        | 0.3141  | 0.2930 |         | 9.32        | 10.0         | -6.7 | 30.0   |
| 1,2-Dichloroethane                            | Ave        | 0.2032  | 0.2023 |         | 9.95        | 10.0         | -0.5 | 30.0   |
| n-Heptane                                     | Ave        | 0.1609  | 0.1580 |         | 9.82        | 10.0         | -1.8 | 30.0   |
| n-Butanol                                     | Ave        | 0.0614  | 0.0673 |         | 11.0        | 10.0         | 9.5  | 30.0   |
| Trichloroethene                               | Ave        | 0.1721  | 0.1828 |         | 10.6        | 10.0         | 6.2  | 30.0   |
| 1,2-Dichloropropane                           | Ave        | 0.1221  | 0.1212 |         | 9.93        | 10.0         | -0.7 | 30.0   |
| Methyl methacrylate                           | Ave        | 0.1267  | 0.1275 |         | 10.1        | 10.0         | 0.7  | 30.0   |
| 1,4-Dioxane                                   | Ave        | 0.0767  | 0.0743 |         | 9.68        | 10.0         | -3.1 | 30.0   |
| Dibromomethane                                | Ave        | 0.1941  | 0.1890 |         | 9.74        | 10.0         | -2.6 | 30.0   |
| Bromodichloromethane                          | Ave        | 0.3270  | 0.3296 |         | 10.1        | 10.0         | 0.8  | 30.0   |
| cis-1,3-Dichloropropene                       | Ave        | 0.2385  | 0.2238 |         | 9.38        | 10.0         | -6.2 | 30.0   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave        | 0.2579  | 0.2464 |         | 9.55        | 10.0         | -4.5 | 30.0   |
| Toluene                                       | Ave        | 0.2747  | 0.2673 |         | 9.73        | 10.0         | -2.7 | 30.0   |
| n-Octane                                      | Ave        | 0.2542  | 0.2475 |         | 9.73        | 10.0         | -2.6 | 30.0   |
| trans-1,3-Dichloropropene                     | Ave        | 0.2450  | 0.2528 |         | 10.3        | 10.0         | 3.2  | 30.0   |
| 1,1,2-Trichloroethane                         | Ave        | 0.1329  | 0.1308 |         | 9.84        | 10.0         | -1.6 | 30.0   |
| Tetrachloroethene                             | Ave        | 0.2774  | 0.2656 |         | 9.57        | 10.0         | -4.3 | 30.0   |
| Methyl Butyl Ketone (2-Hexanone)              | Ave        | 0.2497  | 0.2418 |         | 9.68        | 10.0         | -3.1 | 30.0   |
| Dibromochloromethane                          | Ave        | 0.3169  | 0.3193 |         | 10.1        | 10.0         | 0.8  | 30.0   |
| 1,2-Dibromoethane                             | Ave        | 0.2651  | 0.2700 |         | 10.2        | 10.0         | 1.8  | 30.0   |
| Chlorobenzene                                 | Ave        | 0.3827  | 0.3769 |         | 9.85        | 10.0         | -1.5 | 30.0   |
| Ethylbenzene                                  | Ave        | 0.6400  | 0.6326 |         | 9.88        | 10.0         | -1.2 | 30.0   |
| n-Nonane                                      | Ave        | 0.2581  | 0.2570 |         | 9.96        | 10.0         | -0.4 | 30.0   |
| m,p-Xylene                                    | Ave        | 0.2354  | 0.2357 |         | 20.0        | 20.0         | 0.1  | 30.0   |
| o-Xylene                                      | Ave        | 0.2305  | 0.2350 |         | 10.2        | 10.0         | 2.0  | 30.0   |
| Styrene                                       | Ave        | 0.3558  | 0.3683 |         | 10.3        | 10.0         | 3.5  | 30.0   |
| Bromoform                                     | Ave        | 0.2871  | 0.2953 |         | 10.3        | 10.0         | 2.8  | 30.0   |
| Cumene  | Ave        | 0.7356  | 0.7372 |         | 10.0        | 10.0         | 0.2  | 30.0   |
| 1,1,2,2-Tetrachloroethane                     | Ave        | 0.3411  | 0.3377 |         | 9.90        | 10.0         | -1.0 | 30.0   |
| n-Propylbenzene                               | Ave        | 0.8615  | 0.8652 |         | 10.0        | 10.0         | 0.4  | 30.0   |
| 1,2,3-Trichloropropane                        | Ave        | 0.2950  | 0.2857 |         | 9.68        | 10.0         | -3.1 | 30.0   |
| 4-Ethyltoluene                                | Ave        | 0.7192  | 0.7366 |         | 10.2        | 10.0         | 2.4  | 30.0   |
| 2-Chlorotoluene                               | Ave        | 0.6244  | 0.6251 |         | 10.0        | 10.0         | 0.1  | 30.0   |
| n-Decane                                      | Ave        | 0.3232  | 0.3181 |         | 9.84        | 10.0         | -1.6 | 30.0   |
| 1,3,5-Trimethylbenzene                        | Ave        | 0.6484  | 0.6553 |         | 10.1        | 10.0         | 1.1  | 30.0   |
| Alpha Methyl Styrene                          | Ave        | 0.2952  | 0.3036 |         | 10.3        | 10.0         | 2.8  | 30.0   |
| tert-Butylbenzene                             | Ave        | 0.6169  | 0.6056 |         | 9.81        | 10.0         | -1.8 | 30.0   |
| 1,2,4-Trimethylbenzene                        | Ave        | 0.6499  | 0.6533 |         | 10.0        | 10.0         | 0.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137900/3 Calibration Date: 12/07/2018 12:44  
 Instrument ID: CHC.i Calib Start Date: 12/04/2018 20:51  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/05/2018 09:17  
 Lab File ID: 33574-03.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| sec-Butylbenzene       | Ave        | 0.8947  | 0.8850 |         | 9.89        | 10.0         | -1.1  | 30.0   |
| 4-Isopropyltoluene     | Ave        | 0.7850  | 0.7798 |         | 9.93        | 10.0         | -0.7  | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.4395  | 0.4426 |         | 10.1        | 10.0         | 0.7   | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.4460  | 0.4557 |         | 10.2        | 10.0         | 2.2   | 30.0   |
| Benzyl chloride        | Ave        | 0.6101  | 0.5949 |         | 9.75        | 10.0         | -2.5  | 30.0   |
| n-Butylbenzene         | Ave        | 0.7164  | 0.7133 |         | 9.95        | 10.0         | -0.4  | 30.0   |
| n-Undecane             | Ave        | 0.3478  | 0.3701 |         | 10.6        | 10.0         | 6.4   | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.4272  | 0.4263 |         | 9.98        | 10.0         | -0.2  | 30.0   |
| n-Dodecane             | Ave        | 0.3349  | 0.3434 |         | 10.3        | 10.0         | 2.5   | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.3845  | 0.3606 |         | 9.38        | 10.0         | -6.2  | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.3598  | 0.3444 |         | 9.57        | 10.0         | -4.3  | 30.0   |
| Naphthalene            | Ave        | 0.7587  | 0.6683 |         | 8.81        | 10.0         | -11.9 | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.3568  | 0.3099 |         | 8.68        | 10.0         | -13.1 | 30.0   |



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-03.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 07-Dec-2018 12:44:30 ALS Bottle#: 7 Worklist Smp#: 3  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033574-003  
 Misc. Info.: lcs  
 Operator ID: ggg Instrument ID: CHC.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_CHC.i\*sub1  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0324

First Level Reviewer: phamvu

Date: 10-Dec-2018 17:24:16

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.962     | 2.962         | 0.000         | 93  | 75309    | 10.0            | 10.7              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.031     | 3.031         | 0.000         | 99  | 351841   | 10.0            | 10.1              |       |
| 3 Chlorodifluoromethane       | 51  | 3.079     | 3.079         | 0.000         | 98  | 195802   | 10.0            | 11.2              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.287     | 3.287         | 0.000         | 93  | 307469   | 10.0            | 11.3              |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 99  | 70097    | 10.0            | 10.7              |       |
| 6 Butane                      | 43  | 3.618     | 3.618         | 0.000         | 92  | 107238   | 10.0            | 11.0              |       |
| 7 Vinyl chloride              | 62  | 3.656     | 3.656         | 0.000         | 100 | 78438    | 10.0            | 10.4              |       |
| 8 Butadiene                   | 54  | 3.730     | 3.730         | 0.000         | 94  | 54485    | 10.0            | 10.9              |       |
| 10 Bromomethane               | 94  | 4.398     | 4.398         | 0.000         | 97  | 73146    | 10.0            | 10.8              |       |
| 11 Chloroethane               | 64  | 4.632     | 4.632         | 0.000         | 97  | 31600    | 10.0            | 11.0              |       |
| 12 2-Methylbutane             | 43  | 4.718     | 4.718         | 0.000         | 84  | 63736    | 10.0            | 11.2              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 13 Vinyl bromide              | 106 | 5.022     | 5.022         | 0.000         | 97  | 93341    | 10.0            | 11.4              |       |
| 14 Trichlorofluoromethane     | 101 | 5.134     | 5.134         | 0.000         | 100 | 344776   | 10.0            | 10.8              |       |
| 16 Pentane                    | 43  | 5.283     | 5.283         | 0.000         | 95  | 127999   | 10.0            | 11.0              |       |
| 17 Ethanol                    | 45  | 5.710     | 5.710         | 0.000         | 97  | 44581    | 15.0            | 16.6              |       |
| 18 Ethyl ether                | 59  | 5.796     | 5.796         | 0.000         | 97  | 58181    | 10.0            | 11.4              |       |
| 19 Acrolein                   | 56  | 6.159     | 6.159         | 0.000         | 98  | 26395    | 10.0            | 11.2              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223     | 6.223         | 0.000         | 96  | 191388   | 10.0            | 9.16              |       |
| 21 1,1-Dichloroethene         | 96  | 6.244     | 6.244         | 0.000         | 94  | 78094    | 10.0            | 9.23              |       |
| 22 Acetone                    | 43  | 6.468     | 6.468         | 0.000         | 100 | 138636   | 10.0            | 9.85              |       |
| 23 Carbon disulfide           | 76  | 6.628     | 6.628         | 0.000         | 99  | 236250   | 10.0            | 10.1              |       |
| 24 Isopropyl alcohol          | 45  | 6.788     | 6.788         | 0.000         | 98  | 112591   | 10.0            | 9.09              |       |
| 25 3-Chloro-1-propene         | 41  | 7.039     | 7.039         | 0.000         | 87  | 78028    | 10.0            | 9.35              |       |
| 26 Acetonitrile               | 41  | 7.135     | 7.135         | 0.000         | 98  | 46882    | 10.0            | 10.7              |       |
| 27 Methylene Chloride         | 49  | 7.333     | 7.333         | 0.000         | 93  | 86564    | 10.0            | 8.99              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.568     | 7.568         | 0.000         | 96  | 192705   | 10.0            | 10.3              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.749     | 7.749         | 0.000         | 94  | 272429   | 10.0            | 9.79              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.781         | 0.000         | 95  | 135345   | 10.0            | 10.8              |       |
| 32 Acrylonitrile              | 53  | 7.904     | 7.904         | 0.000         | 92  | 49283    | 10.0            | 10.5              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|----------|-----------------|-------------------|-------|
| 33 Hexane                      | 57  | 8.192     | 8.192          | 0.000         | 85  | 110923   | 10.0            | 10.1              |       |
| 34 1,1-Dichloroethane          | 63  | 8.646     | 8.646          | 0.000         | 98  | 156450   | 10.0            | 9.62              |       |
| 35 Vinyl acetate               | 43  | 8.736     | 8.736          | 0.000         | 99  | 201907   | 10.0            | 10.3              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.766     | 9.766          | 0.000         | 96  | 92941    | 10.0            | 9.59              |       |
| 38 2-Butanone (MEK)            | 72  | 9.804     | 9.804          | 0.000         | 100 | 40886    | 10.0            | 10.0              |       |
| 39 Ethyl acetate               | 88  | 9.863     | 9.863          | 0.000         | 99  | 7540     | 10.0            | 9.66              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |          | 20.0            | 20.4              |       |
| * 40 Chlorobromomethane        | 128 | 10.225    | 10.225         | 0.000         | 81  | 177245   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.231    | 10.231         | 0.000         | 83  | 81124    | 10.0            | 10.2              |       |
| 42 Chloroform                  | 83  | 10.370    | 10.370         | 0.000         | 97  | 243041   | 10.0            | 10.4              |       |
| 43 Cyclohexane                 | 84  | 10.620    | 10.620         | 0.000         | 92  | 123685   | 10.0            | 9.66              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.642    | 10.642         | 0.000         | 95  | 293590   | 10.0            | 9.55              |       |
| 45 Carbon tetrachloride        | 117 | 10.898    | 10.898         | 0.000         | 98  | 325070   | 10.0            | 9.79              |       |
| 46 Isooctane                   | 57  | 11.346    | 11.346         | 0.000         | 95  | 435898   | 10.0            | 9.70              |       |
| 47 Benzene                     | 78  | 11.346    | 11.346         | 0.000         | 98  | 296501   | 10.0            | 9.32              |       |
| 48 1,2-Dichloroethane          | 62  | 11.528    | 11.528         | 0.000         | 99  | 204739   | 10.0            | 9.95              |       |
| 49 n-Heptane                   | 43  | 11.752    | 11.752         | 0.000         | 87  | 159903   | 10.0            | 9.82              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.205    | 12.205         | 0.000         | 95  | 1012310  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.616    | 12.616         | 0.000         | 91  | 68088    | 10.0            | 11.0              |       |
| 53 Trichloroethene             | 95  | 12.675    | 12.675         | 0.000         | 96  | 184973   | 10.0            | 10.6              |       |
| A 51 GRO                       | 1   | 12.966    | (4.708-21.224) |               | 0   | 57901140 | 10.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.219    | 13.219         | 0.000         | 81  | 122650   | 10.0            | 9.93              |       |
| 55 Methyl methacrylate         | 69  | 13.417    | 13.417         | 0.000         | 92  | 129053   | 10.0            | 10.1              |       |
| 56 1,4-Dioxane                 | 88  | 13.449    | 13.449         | 0.000         | 93  | 75171    | 10.0            | 9.68              |       |
| 57 Dibromomethane              | 174 | 13.481    | 13.481         | 0.000         | 93  | 191283   | 10.0            | 9.74              |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.796         | 0.000         | 98  | 333548   | 10.0            | 10.1              |       |
| A 59 TVOC as Toluene           | 1   | 14.650    | (2.952-26.348) |               | 0   | 94864070 | 10.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.746    | 14.746         | 0.000         | 98  | 226457   | 10.0            | 9.38              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.023    | 15.023         | 0.000         | 95  | 249374   | 10.0            | 9.55              |       |
| 65 Toluene                     | 92  | 15.338    | 15.338         | 0.000         | 93  | 278844   | 10.0            | 9.73              |       |
| 64 n-Octane                    | 43  | 15.440    | 15.440         | 0.000         | 82  | 250463   | 10.0            | 9.73              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.941    | 15.941         | 0.000         | 97  | 255875   | 10.0            | 10.3              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 97  | 136439   | 10.0            | 9.84              |       |
| 68 Tetrachloroethene           | 166 | 16.438    | 16.438         | 0.000         | 95  | 277022   | 10.0            | 9.57              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 96  | 252215   | 10.0            | 9.68              |       |
| 71 Chlorodibromomethane        | 129 | 17.078    | 17.078         | 0.000         | 97  | 333046   | 10.0            | 10.1              |       |
| 72 Ethylene Dibromide          | 107 | 17.334    | 17.334         | 0.000         | 98  | 281613   | 10.0            | 10.2              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.241    | 18.241         | 0.000         | 90  | 1043244  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.300    | 18.300         | 0.000         | 92  | 393105   | 10.0            | 9.85              |       |
| 76 Ethylbenzene                | 91  | 18.460    | 18.460         | 0.000         | 99  | 659771   | 10.0            | 9.88              |       |
| 77 n-Nonane                    | 57  | 18.626    | 18.626         | 0.000         | 80  | 268042   | 10.0            | 9.96              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.711         | 0.000         | 0   | 491678   | 20.0            | 20.0              |       |
| 79 o-Xylene                    | 106 | 19.549    | 19.549         | 0.000         | 98  | 245096   | 10.0            | 10.2              |       |
| 80 Styrene                     | 104 | 19.602    | 19.602         | 0.000         | 99  | 384134   | 10.0            | 10.3              |       |
| 81 Bromoform                   | 173 | 20.035    | 20.035         | 0.000         | 96  | 307983   | 10.0            | 10.3              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |          | 30.0            | 30.2              |       |
| 82 Isopropylbenzene            | 105 | 20.259    | 20.259         | 0.000         | 97  | 768918   | 10.0            | 10.0              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.926    | 20.926         | 0.000         | 98  | 352230   | 10.0            | 9.90              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 98  | 902409   | 10.0            | 10.0              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 96  | 298034   | 10.0            | 9.68              |       |
| 88 4-Ethyltoluene              | 105 | 21.198    | 21.198         | 0.000         | 98  | 768312   | 10.0            | 10.2              |       |
| 89 2-Chlorotoluene             | 91  | 21.203    | 21.203         | 0.000         | 95  | 651997   | 10.0            | 10.0              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|----------------|----|----------|-----------------|-------------------|-------|
| 87 n-Decane                | 57  | 21.214    | 21.214        | 0.000          | 97 | 331763   | 10.0            | 9.84              |       |
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000          | 91 | 683454   | 10.0            | 10.1              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.684    | 21.684        | 0.000          | 87 | 316679   | 10.0            | 10.3              |       |
| 92 tert-Butylbenzene       | 119 | 21.807    | 21.807        | 0.000          | 92 | 631653   | 10.0            | 9.81              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.903    | 21.903        | 0.000          | 98 | 681382   | 10.0            | 10.0              |       |
| 94 sec-Butylbenzene        | 105 | 22.137    | 22.137        | 0.000          | 98 | 923125   | 10.0            | 9.89              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000          | 96 | 813325   | 10.0            | 9.93              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.372    | 22.372        | 0.000          | 99 | 461677   | 10.0            | 10.1              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000          | 93 | 475305   | 10.0            | 10.2              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000          | 97 | 620524   | 10.0            | 9.75              |       |
| 100 n-Butylbenzene         | 91  | 22.911    | 22.911        | 0.000          | 98 | 744021   | 10.0            | 9.95              |       |
| 99 Undecane                | 57  | 22.954    | 22.954        | 0.000          | 91 | 386076   | 10.0            | 10.6              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000          | 94 | 444612   | 10.0            | 9.98              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000          | 94 | 358154   | 10.0            | 10.3              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000          | 95 | 376091   | 10.0            | 9.38              |       |
| 104 Hexachlorobutadiene    | 225 | 25.628    | 25.628        | 0.000          | 97 | 359184   | 10.0            | 9.57              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000          | 99 | 697027   | 10.0            | 8.81              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.338    | 26.338        | 0.000          | 95 | 323212   | 10.0            | 8.68              |       |

**Reagents:**

ATTO15CAL4w\_00715

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-03.D

Injection Date: 07-Dec-2018 12:44:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: ccvis

Worklist Smp#: 3

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

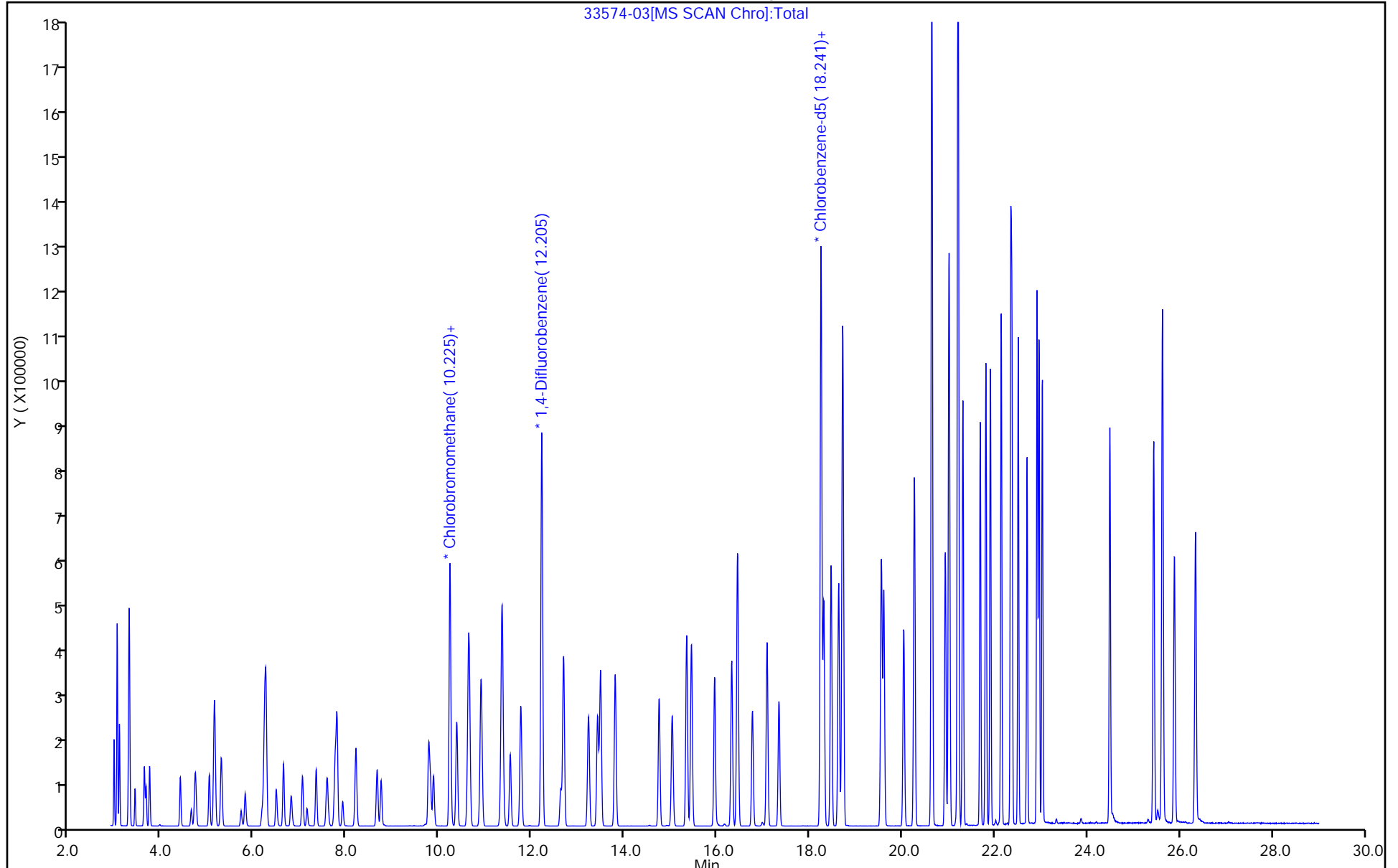
ALS Bottle#: 7

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                        | Ave        | 0.6903  | 0.6284 |         | 9.10        | 10.0         | -9.0  | 30.0   |
| Dichlorodifluoromethane          | Ave        | 3.731   | 3.624  |         | 9.71        | 10.0         | -2.9  | 30.0   |
| Chlorodifluoromethane            | Ave        | 1.588   | 1.434  |         | 9.03        | 10.0         | -9.7  | 30.0   |
| 1,2-Dichlorotetrafluoroethane    | Ave        | 2.808   | 2.919  |         | 10.4        | 10.0         | 4.0   | 30.0   |
| Chloromethane                    | Ave        | 0.7259  | 0.6612 |         | 9.11        | 10.0         | -8.9  | 30.0   |
| n-Butane                         | Ave        | 0.9772  | 0.9149 |         | 9.36        | 10.0         | -6.4  | 30.0   |
| Vinyl chloride                   | Ave        | 0.8738  | 0.7939 |         | 9.08        | 10.0         | -9.1  | 30.0   |
| 1,3-Butadiene                    | Ave        | 0.5437  | 0.5157 |         | 9.48        | 10.0         | -5.1  | 30.0   |
| Bromomethane                     | Ave        | 1.009   | 0.9894 |         | 9.81        | 10.0         | -1.9  | 30.0   |
| Chloroethane                     | Ave        | 0.3363  | 0.3254 |         | 9.68        | 10.0         | -3.2  | 30.0   |
| Isopentane                       | Ave        | 0.6451  | 0.6234 |         | 9.66        | 10.0         | -3.4  | 30.0   |
| Bromoethene (Vinyl Bromide)      | Ave        | 0.997   | 1.039  |         | 10.4        | 10.0         | 4.2   | 30.0   |
| Trichlorofluoromethane           | Ave        | 2.948   | 2.927  |         | 9.93        | 10.0         | -0.7  | 30.0   |
| n-Pentane                        | Ave        | 0.9764  | 0.9287 |         | 9.51        | 10.0         | -4.9  | 30.0   |
| Ethanol                          | Ave        | 0.2022  | 0.2214 |         | 16.4        | 15.0         | 9.5   | 30.0   |
| Ethyl ether                      | Ave        | 0.3425  | 0.3951 |         | 11.5        | 10.0         | 15.4  | 30.0   |
| Acrolein                         | Ave        | 0.1311  | 0.1628 |         | 12.4        | 10.0         | 24.2  | 30.0   |
| 1,1,2-Trichlorotrifluoroethane   | Ave        | 2.077   | 1.835  |         | 8.83        | 10.0         | -11.6 | 30.0   |
| 1,1-Dichloroethene               | Ave        | 0.9142  | 0.7882 |         | 8.62        | 10.0         | -13.8 | 30.0   |
| Acetone                          | Ave        | 0.7785  | 0.8177 |         | 10.5        | 10.0         | 5.0   | 30.0   |
| Carbon disulfide                 | Ave        | 2.351   | 2.273  |         | 9.66        | 10.0         | -3.4  | 30.0   |
| Isopropyl alcohol                | Ave        | 0.8603  | 0.7493 |         | 8.71        | 10.0         | -12.9 | 30.0   |
| 3-Chloropropene                  | Ave        | 0.6801  | 0.5886 |         | 8.65        | 10.0         | -13.5 | 30.0   |
| Acetonitrile                     | Ave        | 0.2847  | 0.3231 |         | 11.3        | 10.0         | 13.5  | 30.0   |
| Methylene Chloride               | Ave        | 0.8250  | 0.7198 |         | 8.72        | 10.0         | -12.8 | 30.0   |
| tert-Butyl alcohol               | Ave        | 1.315   | 1.255  |         | 9.54        | 10.0         | -4.6  | 30.0   |
| Methyl tert-butyl ether          | Ave        | 1.777   | 1.792  |         | 10.1        | 10.0         | 0.8   | 30.0   |
| trans-1,2-Dichloroethene         | Ave        | 1.108   | 1.052  |         | 9.50        | 10.0         | -5.0  | 30.0   |
| Acrylonitrile                    | Ave        | 0.3108  | 0.3429 |         | 11.0        | 10.0         | 10.3  | 30.0   |
| n-Hexane                         | Ave        | 0.8829  | 0.8836 |         | 10.0        | 10.0         | 0.0   | 30.0   |
| 1,1-Dichloroethane               | Ave        | 1.429   | 1.343  |         | 9.39        | 10.0         | -6.1  | 30.0   |
| Vinyl acetate                    | Ave        | 1.081   | 1.232  |         | 11.4        | 10.0         | 14.0  | 30.0   |
| cis-1,2-Dichloroethene           | Ave        | 0.8660  | 0.8634 |         | 9.97        | 10.0         | -0.3  | 30.0   |
| Methyl Ethyl Ketone (2-Butanone) | Ave        | 0.2794  | 0.2674 |         | 9.57        | 10.0         | -4.3  | 30.0   |
| Ethyl acetate                    | Ave        | 0.0398  | 0.0393 |         | 9.86        | 10.0         | -1.4  | 30.0   |
| Tetrahydrofuran                  | Ave        | 0.1141  | 0.1166 |         | 10.2        | 10.0         | 2.2   | 30.0   |
| Chloroform                       | Ave        | 2.089   | 2.014  |         | 9.64        | 10.0         | -3.6  | 30.0   |
| Cyclohexane                      | Ave        | 0.2295  | 0.2171 |         | 9.46        | 10.0         | -5.4  | 30.0   |
| 1,1,1-Trichloroethane            | Ave        | 0.5556  | 0.5220 |         | 9.39        | 10.0         | -6.1  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Carbon tetrachloride                          | Ave        | 0.5937  | 0.5906 |         | 9.95        | 10.0         | -0.5  | 30.0   |
| 2,2,4-Trimethylpentane                        | Ave        | 0.7593  | 0.7298 |         | 9.61        | 10.0         | -3.9  | 30.0   |
| Benzene                                       | Ave        | 0.5325  | 0.5164 |         | 9.70        | 10.0         | -3.0  | 30.0   |
| 1,2-Dichloroethane                            | Ave        | 0.3080  | 0.2950 |         | 9.58        | 10.0         | -4.2  | 30.0   |
| n-Heptane                                     | Ave        | 0.2740  | 0.2587 |         | 9.44        | 10.0         | -5.6  | 30.0   |
| n-Butanol                                     | Ave        | 0.0901  | 0.0925 |         | 10.3        | 10.0         | 2.7   | 30.0   |
| Trichloroethene                               | Ave        | 0.3485  | 0.3273 |         | 9.39        | 10.0         | -6.1  | 30.0   |
| 1,2-Dichloropropane                           | Ave        | 0.1877  | 0.1920 |         | 10.2        | 10.0         | 2.3   | 30.0   |
| Methyl methacrylate                           | Ave        | 0.1550  | 0.1640 |         | 10.6        | 10.0         | 5.8   | 30.0   |
| Dibromomethane                                | Ave        | 0.3211  | 0.3182 |         | 9.91        | 10.0         | -0.9  | 30.0   |
| 1,4-Dioxane                                   | Ave        | 0.0979  | 0.0868 |         | 8.86        | 10.0         | -11.3 | 30.0   |
| Bromodichloromethane                          | Ave        | 0.5411  | 0.5668 |         | 10.5        | 10.0         | 4.7   | 30.0   |
| cis-1,3-Dichloropropene                       | Ave        | 0.3350  | 0.3364 |         | 10.0        | 10.0         | 0.4   | 30.0   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave        | 0.3463  | 0.3292 |         | 9.50        | 10.0         | -4.9  | 30.0   |
| Toluene                                       | Ave        | 0.4051  | 0.4490 |         | 11.1        | 10.0         | 10.8  | 30.0   |
| n-Octane                                      | Ave        | 0.4030  | 0.3971 |         | 9.85        | 10.0         | -1.5  | 30.0   |
| trans-1,3-Dichloropropene                     | Ave        | 0.3295  | 0.3651 |         | 11.1        | 10.0         | 10.8  | 30.0   |
| 1,1,2-Trichloroethane                         | Ave        | 0.2192  | 0.2430 |         | 11.1        | 10.0         | 10.9  | 30.0   |
| Tetrachloroethene                             | Ave        | 0.4850  | 0.5253 |         | 10.8        | 10.0         | 8.3   | 30.0   |
| Methyl Butyl Ketone (2-Hexanone)              | Ave        | 0.3560  | 0.3660 |         | 10.3        | 10.0         | 2.8   | 30.0   |
| Dibromochloromethane                          | Ave        | 0.5859  | 0.6428 |         | 11.0        | 10.0         | 9.7   | 30.0   |
| 1,2-Dibromoethane                             | Ave        | 0.4426  | 0.5030 |         | 11.4        | 10.0         | 13.6  | 30.0   |
| Chlorobenzene                                 | Ave        | 0.6231  | 0.6847 |         | 11.0        | 10.0         | 9.9   | 30.0   |
| Ethylbenzene                                  | Ave        | 0.9122  | 0.9854 |         | 10.8        | 10.0         | 8.0   | 30.0   |
| n-Nonane                                      | Ave        | 0.3988  | 0.4104 |         | 10.3        | 10.0         | 2.9   | 30.0   |
| m,p-Xylene                                    | Ave        | 0.3698  | 0.4008 |         | 21.7        | 20.0         | 8.4   | 30.0   |
| o-Xylene                                      | Ave        | 0.3514  | 0.3846 |         | 10.9        | 10.0         | 9.5   | 30.0   |
| Styrene                                       | Ave        | 0.5379  | 0.5942 |         | 11.0        | 10.0         | 10.5  | 30.0   |
| Bromoform                                     | Ave        | 0.5301  | 0.6198 |         | 11.7        | 10.0         | 16.9  | 30.0   |
| Cumene  | Ave        | 1.028   | 1.114  |         | 10.8        | 10.0         | 8.5   | 30.0   |
| 1,1,2,2-Tetrachloroethane                     | Ave        | 0.5606  | 0.6003 |         | 10.7        | 10.0         | 7.1   | 30.0   |
| n-Propylbenzene                               | Ave        | 1.224   | 1.324  |         | 10.8        | 10.0         | 8.2   | 30.0   |
| 1,2,3-Trichloropropane                        | Ave        | 0.4759  | 0.4599 |         | 9.66        | 10.0         | -3.4  | 30.0   |
| 2-Chlorotoluene                               | Ave        | 0.9241  | 0.9799 |         | 10.6        | 10.0         | 6.0   | 30.0   |
| 4-Ethyltoluene                                | Ave        | 1.042   | 1.154  |         | 11.1        | 10.0         | 10.8  | 30.0   |
| n-Decane                                      | Ave        | 0.4933  | 0.4849 |         | 9.83        | 10.0         | -1.7  | 30.0   |
| 1,3,5-Trimethylbenzene                        | Ave        | 0.8912  | 0.9530 |         | 10.7        | 10.0         | 6.9   | 30.0   |
| Alpha Methyl Styrene                          | Ave        | 0.4187  | 0.4833 |         | 11.5        | 10.0         | 15.4  | 30.0   |
| tert-Butylbenzene                             | Ave        | 0.8336  | 0.8924 |         | 10.7        | 10.0         | 7.1   | 30.0   |
| 1,2,4-Trimethylbenzene                        | Ave        | 0.8792  | 0.9515 |         | 10.8        | 10.0         | 8.2   | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: ICV 200-137447/15 Calibration Date: 11/28/2018 05:37  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33385-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| sec-Butylbenzene       | Ave        | 1.236   | 1.319  |         | 10.7        | 10.0         | 6.7   | 30.0   |
| 4-Isopropyltoluene     | Ave        | 1.059   | 1.142  |         | 10.8        | 10.0         | 7.8   | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.7126  | 0.7658 |         | 10.7        | 10.0         | 7.5   | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.6814  | 0.7446 |         | 10.9        | 10.0         | 9.3   | 30.0   |
| Benzyl chloride        | Ave        | 0.8411  | 0.8499 |         | 10.1        | 10.0         | 1.0   | 30.0   |
| n-Butylbenzene         | Ave        | 0.9659  | 1.021  |         | 10.6        | 10.0         | 5.7   | 30.0   |
| n-Undecane             | Ave        | 0.5433  | 0.5238 |         | 9.64        | 10.0         | -3.6  | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.6549  | 0.6972 |         | 10.6        | 10.0         | 6.5   | 30.0   |
| n-Dodecane             | Ave        | 0.4351  | 0.3941 |         | 9.06        | 10.0         | -9.4  | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.4922  | 0.4673 |         | 9.49        | 10.0         | -5.1  | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.4897  | 0.4519 |         | 9.23        | 10.0         | -7.7  | 30.0   |
| Naphthalene            | Ave        | 0.9543  | 0.8724 |         | 9.14        | 10.0         | -8.6  | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.4252  | 0.3651 |         | 8.58        | 10.0         | -14.1 | 30.0   |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-015.D  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 28-Nov-2018 05:37:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-015  
 Operator ID: vtp Instrument ID: CHG.i  
 Sublist:

Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 12:18:25 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

First Level Reviewer: mickd

Date: 28-Nov-2018 10:45:14

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.090         | 0.000         | 98  | 710648   | 10.0            | 9.10              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99  | 4098267  | 10.0            | 9.71              |       |
| 3 Chlorodifluoromethane       | 51  | 3.176     | 3.176         | 0.000         | 96  | 1621514  | 10.0            | 9.03              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.342         | 0.000         | 97  | 3301694  | 10.0            | 10.4              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99  | 747840   | 10.0            | 9.11              |       |
| 6 Butane                      | 43  | 3.599     | 3.604         | -0.005        | 96  | 1034680  | 10.0            | 9.36              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 98  | 897927   | 10.0            | 9.08              |       |
| 8 Butadiene                   | 54  | 3.690     | 3.689         | 0.001         | 93  | 583293   | 10.0            | 9.48              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 98  | 1119014  | 10.0            | 9.81              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 98  | 368066   | 10.0            | 9.68              |       |
| 12 2-Methylbutane             | 43  | 4.439     | 4.438         | 0.000         | 87  | 704999   | 10.0            | 9.66              |       |
| 13 Vinyl bromide              | 106 | 4.685     | 4.685         | 0.001         | 98  | 1175547  | 10.0            | 10.4              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 3310941  | 10.0            | 9.93              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 99  | 1050390  | 10.0            | 9.51              |       |
| 17 Ethanol                    | 45  | 5.204     | 5.209         | -0.005        | 96  | 375711   | 15.0            | 16.4              |       |
| 18 Ethyl ether                | 59  | 5.273     | 5.278         | -0.005        | 97  | 446867   | 10.0            | 11.5              |       |
| 19 Acrolein                   | 56  | 5.589     | 5.594         | -0.005        | 98  | 184157   | 10.0            | 12.4              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 97  | 2075125  | 10.0            | 8.83              |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 97  | 891380   | 10.0            | 8.62              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 924849   | 10.0            | 10.5              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.017         | 0.000         | 99  | 2570242  | 10.0            | 9.66              |       |
| 24 Isopropyl alcohol          | 45  | 6.092     | 6.097         | -0.005        | 100 | 847398   | 10.0            | 8.71              |       |
| 25 3-Chloro-1-propene         | 41  | 6.306     | 6.311         | -0.005        | 95  | 665694   | 10.0            | 8.65              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.423         | -0.005        | 98  | 365431   | 10.0            | 11.3              |       |
| 27 Methylene Chloride         | 49  | 6.552     | 6.557         | -0.005        | 87  | 814033   | 10.0            | 8.72              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.766     | 6.771         | -0.005        | 93  | 1419338  | 10.0            | 9.54              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000         | 95  | 2026780  | 10.0            | 10.1              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.948     | 6.947         | 0.001         | 93  | 1189824  | 10.0            | 9.50              |       |
| 32 Acrylonitrile              | 53  | 7.076     | 7.076         | 0.000         | 93  | 387798   | 10.0            | 11.0              |       |
| 33 Hexane                     | 57  | 7.290     | 7.290         | 0.000         | 90  | 999333   | 10.0            | 10.0              |       |



| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 7.729     | 7.728          | 0.001         | 99  | 1518347   | 10.0            | 9.39              |       |
| 35 Vinyl acetate               | 43  | 7.787     | 7.793          | -0.006        | 100 | 1393877   | 10.0            | 11.4              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.734     | 8.734          | 0.000         | 89  | 976496    | 10.0            | 9.97              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 100 | 302422    | 10.0            | 9.57              |       |
| 39 Ethyl acetate               | 88  | 8.831     | 8.831          | 0.000         | 99  | 44400     | 10.0            | 9.86              |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.162          | -0.005        | 74  | 1131202   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 84  | 583313    | 10.0            | 10.2              |       |
| 42 Chloroform                  | 83  | 9.275     | 9.275          | 0.000         | 96  | 2278242   | 10.0            | 9.64              |       |
| 43 Cyclohexane                 | 84  | 9.531     | 9.537          | -0.006        | 94  | 1086038   | 10.0            | 9.46              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.547     | 9.547          | 0.000         | 94  | 2611504   | 10.0            | 9.39              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 19.5              |       |
| 45 Carbon tetrachloride        | 117 | 9.788     | 9.788          | 0.000         | 98  | 2954887   | 10.0            | 9.95              |       |
| 46 Isooctane                   | 57  | 10.200    | 10.205         | -0.005        | 98  | 3650917   | 10.0            | 9.61              |       |
| 47 Benzene                     | 78  | 10.222    | 10.221         | 0.001         | 96  | 2583631   | 10.0            | 9.70              |       |
| 48 1,2-Dichloroethane          | 62  | 10.387    | 10.387         | 0.000         | 99  | 1475788   | 10.0            | 9.58              |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.575         | -0.006        | 91  | 1294162   | 10.0            | 9.44              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.024         | 0.000         | 93  | 5003919   | 10.0            | 10.0              | s     |
| 52 n-Butanol                   | 56  | 11.463    | 11.463         | 0.000         | 89  | 462846    | 10.0            | 10.3              |       |
| 53 Trichloroethene             | 95  | 11.489    | 11.489         | 0.000         | 98  | 1637504   | 10.0            | 9.39              |       |
| 54 1,2-Dichloropropane         | 63  | 12.019    | 12.024         | -0.005        | 87  | 960686    | 10.0            | 10.2              |       |
| 55 Methyl methacrylate         | 69  | 12.212    | 12.217         | -0.005        | 95  | 820412    | 10.0            | 10.6              |       |
| A 51 GRO                       | 1   | 12.262    | (4.428-20.096) |               | 0   | 401338831 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.270    | 12.276         | -0.006        | 96  | 1592056   | 10.0            | 9.91              |       |
| 56 1,4-Dioxane                 | 88  | 12.287    | 12.281         | 0.006         | 89  | 434179    | 10.0            | 8.86              |       |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.565         | -0.006        | 98  | 2835489   | 10.0            | 10.5              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.480    | 13.479         | 0.001         | 93  | 1683149   | 10.0            | 10.0              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.795    | 13.795         | 0.000         | 97  | 1646840   | 10.0            | 9.50              |       |
| 65 Toluene                     | 92  | 14.068    | 14.068         | 0.000         | 94  | 2045090   | 10.0            | 11.1              |       |
| 64 n-Octane                    | 43  | 14.154    | 14.153         | 0.001         | 89  | 1986722   | 10.0            | 9.85              |       |
| A 59 TVOC as Toluene           | 92  | 14.162    | (3.080-25.243) |               | 0   | 628460887 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.662    | 14.662         | 0.000         | 96  | 1826785   | 10.0            | 11.1              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.026    | 15.031         | -0.005        | 97  | 1106796   | 10.0            | 11.1              |       |
| 68 Tetrachloroethene           | 166 | 15.149    | 15.143         | 0.006         | 96  | 2392435   | 10.0            | 10.8              |       |
| 69 2-Hexanone                  | 43  | 15.512    | 15.518         | -0.006        | 95  | 1666997   | 10.0            | 10.3              |       |
| 71 Chlorodibromomethane        | 129 | 15.791    | 15.790         | 0.001         | 97  | 2927788   | 10.0            | 11.0              |       |
| 72 Ethylene Dibromide          | 107 | 16.053    | 16.053         | 0.000         | 99  | 2290903   | 10.0            | 11.4              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.962    | 16.962         | 0.000         | 84  | 4555708   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.026    | 17.026         | 0.000         | 96  | 3118734   | 10.0            | 11.0              |       |
| 76 Ethylbenzene                | 91  | 17.192    | 17.192         | 0.000         | 98  | 4488205   | 10.0            | 10.8              |       |
| 77 n-Nonane                    | 57  | 17.358    | 17.358         | 0.000         | 86  | 1869303   | 10.0            | 10.3              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.449    | 17.449         | 0.000         | 0   | 3651373   | 20.0            | 21.7              |       |
| 79 o-Xylene                    | 106 | 18.300    | 18.294         | 0.006         | 99  | 1751961   | 10.0            | 10.9              |       |
| 80 Styrene                     | 104 | 18.348    | 18.348         | 0.000         | 98  | 2706341   | 10.0            | 11.0              |       |
| 81 Bromoform                   | 173 | 18.786    | 18.786         | 0.000         | 96  | 2823039   | 10.0            | 11.7              |       |
| 82 Isopropylbenzene            | 105 | 19.049    | 19.048         | 0.001         | 96  | 5075950   | 10.0            | 10.8              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 32.6              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.771    | 19.771         | 0.000         | 99  | 2734209   | 10.0            | 10.7              |       |
| 85 N-Propylbenzene             | 91  | 19.851    | 19.851         | 0.000         | 99  | 6031880   | 10.0            | 10.8              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.867    | 19.867         | 0.000         | 97  | 2094886   | 10.0            | 9.66              |       |
| 89 2-Chlorotoluene             | 91  | 20.054    | 20.054         | 0.000         | 97  | 4463388   | 10.0            | 10.6              |       |
| 88 4-Ethyltoluene              | 105 | 20.060    | 20.060         | 0.000         | 97  | 5257776   | 10.0            | 11.1              |       |
| 87 n-Decane                    | 57  | 20.086    | 20.086         | 0.000         | 93  | 2208808   | 10.0            | 9.83              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 20.183    | 20.177        | 0.006         | 93 | 4340906  | 10.0            | 10.7              |       |
| 91 Alpha Methyl Styrene    | 118 | 20.573    | 20.573        | 0.000         | 90 | 2201531  | 10.0            | 11.5              |       |
| 92 tert-Butylbenzene       | 119 | 20.702    | 20.702        | 0.000         | 92 | 4064646  | 10.0            | 10.7              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.803    | 20.803        | 0.000         | 97 | 4333930  | 10.0            | 10.8              |       |
| 94 sec-Butylbenzene        | 105 | 21.049    | 21.049        | 0.000         | 99 | 6007497  | 10.0            | 10.7              |       |
| 95 4-Isopropyltoluene      | 119 | 21.269    | 21.269        | 0.000         | 97 | 5200991  | 10.0            | 10.8              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.279    | 21.279        | 0.000         | 96 | 3487931  | 10.0            | 10.7              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.424    | 21.424        | 0.000         | 96 | 3391638  | 10.0            | 10.9              |       |
| 98 Benzyl chloride         | 91  | 21.627    | 21.627        | 0.000         | 99 | 3870906  | 10.0            | 10.1              |       |
| 100 n-Butylbenzene         | 91  | 21.857    | 21.857        | 0.000         | 99 | 4651542  | 10.0            | 10.6              |       |
| 99 Undecane                | 57  | 21.911    | 21.911        | 0.000         | 93 | 2385999  | 10.0            | 9.64              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.953    | 21.953        | 0.000         | 96 | 3175494  | 10.0            | 10.6              |       |
| 102 Dodecane               | 57  | 23.446    | 23.441        | 0.005         | 98 | 1795254  | 10.0            | 9.06              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.345    | 24.345        | 0.000         | 94 | 2128324  | 10.0            | 9.49              |       |
| 104 Hexachlorobutadiene    | 225 | 24.537    | 24.537        | 0.000         | 98 | 2058261  | 10.0            | 9.23              |       |
| 105 Naphthalene            | 128 | 24.783    | 24.783        | 0.000         | 99 | 3973460  | 10.0            | 9.14              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.233    | 25.233        | 0.000         | 95 | 1662966  | 10.0            | 8.58              |       |

### QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

### Reagents:

ATTO15LCSW\_00787

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-015.D

Injection Date: 28-Nov-2018 05:37:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: icv

Worklist Smp#: 15

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

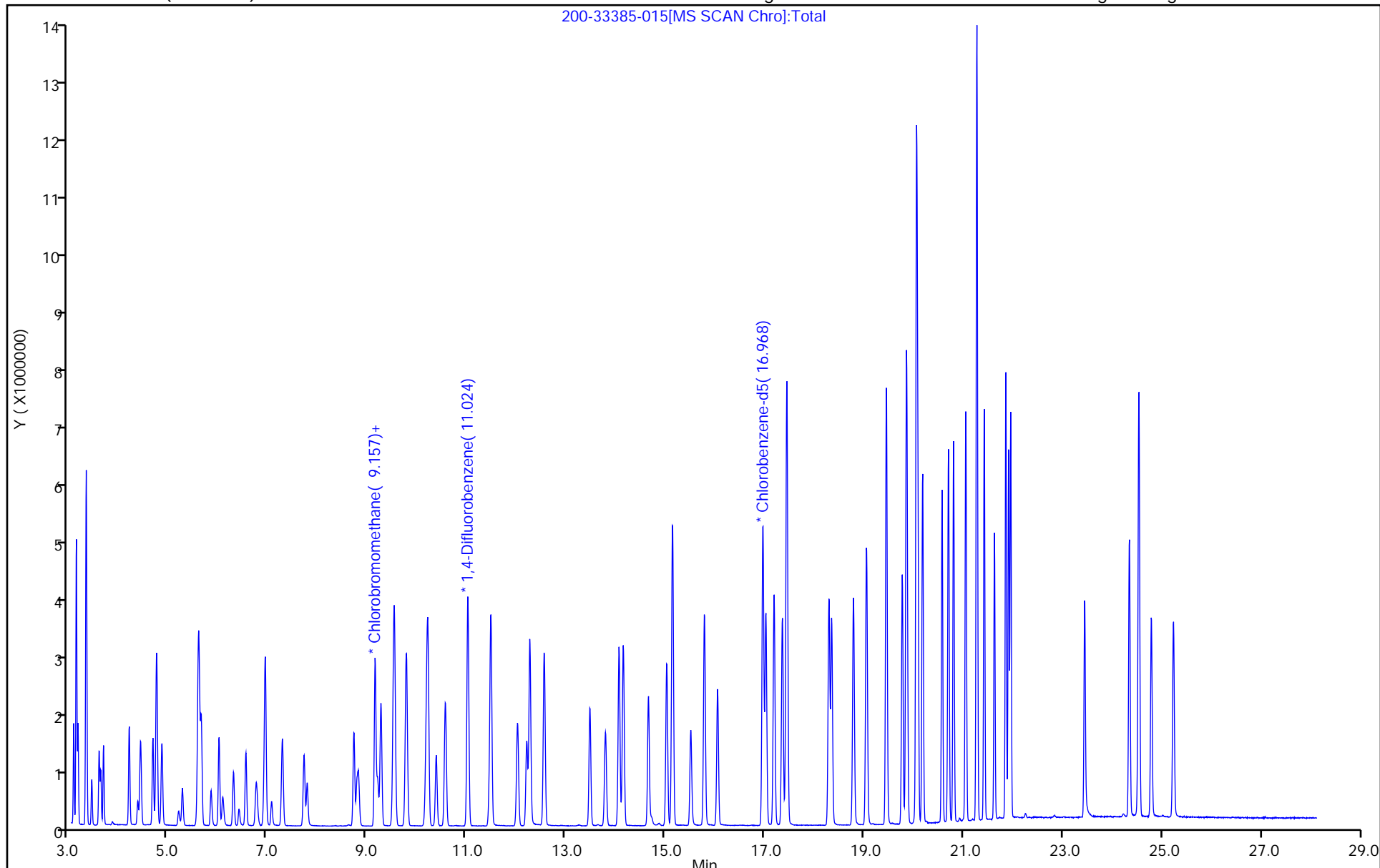
ALS Bottle#: 14

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                        | Ave        | 0.6903  | 0.7389 |         | 10.7        | 10.0         | 7.0   | 30.0   |
| Dichlorodifluoromethane          | Ave        | 3.731   | 3.902  |         | 10.5        | 10.0         | 4.6   | 30.0   |
| Chlorodifluoromethane            | Ave        | 1.588   | 1.591  |         | 10.0        | 10.0         | 0.2   | 30.0   |
| 1,2-Dichlorotetrafluoroethane    | Ave        | 2.808   | 2.811  |         | 10.0        | 10.0         | 0.1   | 30.0   |
| Chloromethane                    | Ave        | 0.7259  | 0.7055 |         | 9.72        | 10.0         | -2.8  | 30.0   |
| n-Butane                         | Ave        | 0.9772  | 0.9439 |         | 9.66        | 10.0         | -3.4  | 30.0   |
| Vinyl chloride                   | Ave        | 0.8738  | 0.8182 |         | 9.36        | 10.0         | -6.4  | 30.0   |
| 1,3-Butadiene                    | Ave        | 0.5437  | 0.5131 |         | 9.44        | 10.0         | -5.6  | 30.0   |
| Bromomethane                     | Ave        | 1.009   | 0.9797 |         | 9.71        | 10.0         | -2.9  | 30.0   |
| Chloroethane                     | Ave        | 0.3363  | 0.3159 |         | 9.39        | 10.0         | -6.1  | 30.0   |
| Isopentane                       | Ave        | 0.6451  | 0.6357 |         | 9.85        | 10.0         | -1.5  | 30.0   |
| Bromoethene (Vinyl Bromide)      | Ave        | 0.997   | 0.9326 |         | 9.35        | 10.0         | -6.5  | 30.0   |
| Trichlorofluoromethane           | Ave        | 2.948   | 2.813  |         | 9.54        | 10.0         | -4.6  | 30.0   |
| n-Pentane                        | Ave        | 0.9764  | 0.9212 |         | 9.43        | 10.0         | -5.7  | 30.0   |
| Ethanol                          | Ave        | 0.2022  | 0.2463 |         | 18.3        | 15.0         | 21.8  | 30.0   |
| Ethyl ether                      | Ave        | 0.3425  | 0.3492 |         | 10.2        | 10.0         | 2.0   | 30.0   |
| Acrolein                         | Ave        | 0.1311  | 0.1305 |         | 9.95        | 10.0         | -0.5  | 30.0   |
| 1,1,2-Trichlorotrifluoroethane   | Ave        | 2.077   | 1.991  |         | 9.58        | 10.0         | -4.1  | 30.0   |
| 1,1-Dichloroethene               | Ave        | 0.9142  | 0.8444 |         | 9.24        | 10.0         | -7.6  | 30.0   |
| Acetone                          | Ave        | 0.7785  | 0.8465 |         | 10.9        | 10.0         | 8.7   | 30.0   |
| Carbon disulfide                 | Ave        | 2.351   | 2.292  |         | 9.75        | 10.0         | -2.5  | 30.0   |
| Isopropyl alcohol                | Ave        | 0.8603  | 0.8442 |         | 9.81        | 10.0         | -1.9  | 30.0   |
| 3-Chloropropene                  | Ave        | 0.6801  | 0.6582 |         | 9.68        | 10.0         | -3.2  | 30.0   |
| Acetonitrile                     | Ave        | 0.2847  | 0.2454 |         | 8.62        | 10.0         | -13.8 | 30.0   |
| Methylene Chloride               | Ave        | 0.8250  | 0.7939 |         | 9.62        | 10.0         | -3.8  | 30.0   |
| tert-Butyl alcohol               | Ave        | 1.315   | 1.283  |         | 9.75        | 10.0         | -2.5  | 30.0   |
| Methyl tert-butyl ether          | Ave        | 1.777   | 1.831  |         | 10.3        | 10.0         | 3.0   | 30.0   |
| trans-1,2-Dichloroethene         | Ave        | 1.108   | 1.050  |         | 9.48        | 10.0         | -5.2  | 30.0   |
| Acrylonitrile                    | Ave        | 0.3108  | 0.3006 |         | 9.67        | 10.0         | -3.3  | 30.0   |
| n-Hexane                         | Ave        | 0.8829  | 0.8587 |         | 9.72        | 10.0         | -2.7  | 30.0   |
| 1,1-Dichloroethane               | Ave        | 1.429   | 1.327  |         | 9.28        | 10.0         | -7.2  | 30.0   |
| Vinyl acetate                    | Ave        | 1.081   | 1.157  |         | 10.7        | 10.0         | 7.0   | 30.0   |
| cis-1,2-Dichloroethene           | Ave        | 0.8660  | 0.8734 |         | 10.1        | 10.0         | 0.9   | 30.0   |
| Methyl Ethyl Ketone (2-Butanone) | Ave        | 0.2794  | 0.2620 |         | 9.37        | 10.0         | -6.2  | 30.0   |
| Ethyl acetate                    | Ave        | 0.0398  | 0.0422 |         | 10.6        | 10.0         | 6.0   | 30.0   |
| Tetrahydrofuran                  | Ave        | 0.1141  | 0.1117 |         | 9.79        | 10.0         | -2.1  | 30.0   |
| Chloroform                       | Ave        | 2.089   | 2.024  |         | 9.69        | 10.0         | -3.1  | 30.0   |
| Cyclohexane                      | Ave        | 0.2295  | 0.2146 |         | 9.35        | 10.0         | -6.5  | 30.0   |
| 1,1,1-Trichloroethane            | Ave        | 0.5556  | 0.5282 |         | 9.50        | 10.0         | -4.9  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Carbon tetrachloride                          | Ave        | 0.5937  | 0.5864 |         | 9.87        | 10.0         | -1.2  | 30.0   |
| 2,2,4-Trimethylpentane                        | Ave        | 0.7593  | 0.7082 |         | 9.33        | 10.0         | -6.7  | 30.0   |
| Benzene                                       | Ave        | 0.5325  | 0.5372 |         | 10.1        | 10.0         | 0.9   | 30.0   |
| 1,2-Dichloroethane                            | Ave        | 0.3080  | 0.2925 |         | 9.49        | 10.0         | -5.0  | 30.0   |
| n-Heptane                                     | Ave        | 0.2740  | 0.2581 |         | 9.42        | 10.0         | -5.8  | 30.0   |
| n-Butanol                                     | Ave        | 0.0901  | 0.0728 |         | 8.08        | 10.0         | -19.2 | 30.0   |
| Trichloroethene                               | Ave        | 0.3485  | 0.3140 |         | 9.01        | 10.0         | -9.9  | 30.0   |
| 1,2-Dichloropropane                           | Ave        | 0.1877  | 0.1855 |         | 9.88        | 10.0         | -1.2  | 30.0   |
| Methyl methacrylate                           | Ave        | 0.1550  | 0.1529 |         | 9.86        | 10.0         | -1.4  | 30.0   |
| Dibromomethane                                | Ave        | 0.3211  | 0.3139 |         | 9.77        | 10.0         | -2.2  | 30.0   |
| 1,4-Dioxane                                   | Ave        | 0.0979  | 0.1026 |         | 10.5        | 10.0         | 4.8   | 30.0   |
| Bromodichloromethane                          | Ave        | 0.5411  | 0.5507 |         | 10.2        | 10.0         | 1.8   | 30.0   |
| cis-1,3-Dichloropropene                       | Ave        | 0.3350  | 0.3336 |         | 9.95        | 10.0         | -0.4  | 30.0   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave        | 0.3463  | 0.3198 |         | 9.23        | 10.0         | -7.6  | 30.0   |
| Toluene                                       | Ave        | 0.4051  | 0.4261 |         | 10.5        | 10.0         | 5.2   | 30.0   |
| n-Octane                                      | Ave        | 0.4030  | 0.3818 |         | 9.47        | 10.0         | -5.2  | 30.0   |
| trans-1,3-Dichloropropene                     | Ave        | 0.3295  | 0.3223 |         | 9.78        | 10.0         | -2.2  | 30.0   |
| 1,1,2-Trichloroethane                         | Ave        | 0.2192  | 0.2298 |         | 10.5        | 10.0         | 4.8   | 30.0   |
| Tetrachloroethene                             | Ave        | 0.4850  | 0.5226 |         | 10.8        | 10.0         | 7.8   | 30.0   |
| Methyl Butyl Ketone (2-Hexanone)              | Ave        | 0.3560  | 0.3360 |         | 9.44        | 10.0         | -5.6  | 30.0   |
| Dibromochloromethane                          | Ave        | 0.5859  | 0.6451 |         | 11.0        | 10.0         | 10.1  | 30.0   |
| 1,2-Dibromoethane                             | Ave        | 0.4426  | 0.4790 |         | 10.8        | 10.0         | 8.2   | 30.0   |
| Chlorobenzene                                 | Ave        | 0.6231  | 0.6578 |         | 10.6        | 10.0         | 5.6   | 30.0   |
| Ethylbenzene                                  | Ave        | 0.9122  | 0.9658 |         | 10.6        | 10.0         | 5.9   | 30.0   |
| n-Nonane                                      | Ave        | 0.3988  | 0.3935 |         | 9.86        | 10.0         | -1.3  | 30.0   |
| m,p-Xylene                                    | Ave        | 0.3698  | 0.3905 |         | 21.1        | 20.0         | 5.6   | 30.0   |
| o-Xylene                                      | Ave        | 0.3514  | 0.3800 |         | 10.8        | 10.0         | 8.1   | 30.0   |
| Styrene                                       | Ave        | 0.5379  | 0.5845 |         | 10.9        | 10.0         | 8.6   | 30.0   |
| Bromoform                                     | Ave        | 0.5301  | 0.6061 |         | 11.4        | 10.0         | 14.3  | 30.0   |
| Cumene  | Ave        | 1.028   | 1.135  |         | 11.0        | 10.0         | 10.5  | 30.0   |
| 1,1,2,2-Tetrachloroethane                     | Ave        | 0.5606  | 0.5737 |         | 10.2        | 10.0         | 2.3   | 30.0   |
| n-Propylbenzene                               | Ave        | 1.224   | 1.309  |         | 10.7        | 10.0         | 7.0   | 30.0   |
| 1,2,3-Trichloropropane                        | Ave        | 0.4759  | 0.4527 |         | 9.51        | 10.0         | -4.9  | 30.0   |
| 2-Chlorotoluene                               | Ave        | 0.9241  | 0.9573 |         | 10.4        | 10.0         | 3.6   | 30.0   |
| 4-Ethyltoluene                                | Ave        | 1.042   | 1.133  |         | 10.9        | 10.0         | 8.7   | 30.0   |
| n-Decane                                      | Ave        | 0.4933  | 0.4828 |         | 9.79        | 10.0         | -2.1  | 30.0   |
| 1,3,5-Trimethylbenzene                        | Ave        | 0.8912  | 0.9713 |         | 10.9        | 10.0         | 9.0   | 30.0   |
| Alpha Methyl Styrene                          | Ave        | 0.4187  | 0.4987 |         | 11.9        | 10.0         | 19.1  | 30.0   |
| tert-Butylbenzene                             | Ave        | 0.8336  | 0.9238 |         | 11.1        | 10.0         | 10.8  | 30.0   |
| 1,2,4-Trimethylbenzene                        | Ave        | 0.8792  | 0.9715 |         | 11.0        | 10.0         | 10.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137819/3 Calibration Date: 12/05/2018 15:48  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33531-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| sec-Butylbenzene       | Ave        | 1.236   | 1.388  |         | 11.2        | 10.0         | 12.3  | 30.0   |
| 4-Isopropyltoluene     | Ave        | 1.059   | 1.202  |         | 11.3        | 10.0         | 13.5  | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.7126  | 0.7557 |         | 10.6        | 10.0         | 6.1   | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.6814  | 0.7375 |         | 10.8        | 10.0         | 8.2   | 30.0   |
| Benzyl chloride        | Ave        | 0.8411  | 0.8757 |         | 10.4        | 10.0         | 4.1   | 30.0   |
| n-Butylbenzene         | Ave        | 0.9659  | 1.070  |         | 11.1        | 10.0         | 10.7  | 30.0   |
| n-Undecane             | Ave        | 0.5433  | 0.5206 |         | 9.58        | 10.0         | -4.2  | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.6549  | 0.7081 |         | 10.8        | 10.0         | 8.1   | 30.0   |
| n-Dodecane             | Ave        | 0.4351  | 0.3633 |         | 8.35        | 10.0         | -16.5 | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.4922  | 0.4132 |         | 8.39        | 10.0         | -16.1 | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.4897  | 0.4535 |         | 9.26        | 10.0         | -7.4  | 30.0   |
| Naphthalene            | Ave        | 0.9543  | 0.7399 |         | 7.75        | 10.0         | -22.5 | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.4252  | 0.3272 |         | 7.69        | 10.0         | -23.0 | 30.0   |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-003.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 05-Dec-2018 15:48:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-003  
 Operator ID: ert Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 12:53:21 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa

Date: 06-Dec-2018 12:53:21

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.096     | 3.096         | 0.000         | 97  | 476676   | 10.0            | 10.7              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.144         | 0.000         | 99  | 2517190  | 10.0            | 10.5              |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.181         | 0.000         | 96  | 1026547  | 10.0            | 10.0              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.347     | 3.347         | 0.000         | 90  | 1813280  | 10.0            | 10.0              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.454         | 0.000         | 99  | 455097   | 10.0            | 9.72              |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000         | 96  | 608903   | 10.0            | 9.66              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.636         | 0.000         | 98  | 527790   | 10.0            | 9.36              |       |
| 8 Butadiene                   | 54  | 3.695     | 3.695         | 0.000         | 94  | 330961   | 10.0            | 9.44              |       |
| 10 Bromomethane               | 94  | 4.208     | 4.208         | 0.000         | 98  | 631978   | 10.0            | 9.71              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 99  | 203801   | 10.0            | 9.39              |       |
| 12 2-Methylbutane             | 43  | 4.433     | 4.433         | 0.000         | 90  | 410074   | 10.0            | 9.85              |       |
| 13 Vinyl bromide              | 106 | 4.684     | 4.684         | 0.000         | 98  | 601628   | 10.0            | 9.35              |       |
| 14 Trichlorofluoromethane     | 101 | 4.759     | 4.759         | 0.000         | 98  | 1814478  | 10.0            | 9.54              |       |
| 16 Pentane                    | 43  | 4.866     | 4.866         | 0.000         | 98  | 594261   | 10.0            | 9.43              |       |
| 17 Ethanol                    | 45  | 5.203     | 5.203         | 0.000         | 96  | 238410   | 15.0            | 18.3              | a     |
| 18 Ethyl ether                | 59  | 5.278     | 5.278         | 0.000         | 96  | 225284   | 10.0            | 10.2              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.594         | 0.000         | 96  | 84188    | 10.0            | 9.95              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 96  | 1284278  | 10.0            | 9.58              |       |
| 21 1,1-Dichloroethene         | 96  | 5.658     | 5.658         | 0.000         | 97  | 544731   | 10.0            | 9.24              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 546067   | 10.0            | 10.9              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.017         | 0.000         | 99  | 1478820  | 10.0            | 9.75              |       |
| 24 Isopropyl alcohol          | 45  | 6.097     | 6.097         | 0.000         | 100 | 544584   | 10.0            | 9.81              |       |
| 25 3-Chloro-1-propene         | 41  | 6.305     | 6.305         | 0.000         | 96  | 424584   | 10.0            | 9.68              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.418         | 0.000         | 98  | 158299   | 10.0            | 8.62              |       |
| 27 Methylene Chloride         | 49  | 6.551     | 6.551         | 0.000         | 88  | 512129   | 10.0            | 9.62              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.771     | 6.771         | 0.000         | 94  | 827532   | 10.0            | 9.75              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.937         | 0.000         | 95  | 1181364  | 10.0            | 10.3              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.947     | 6.947         | 0.000         | 95  | 677570   | 10.0            | 9.48              |       |
| 32 Acrylonitrile              | 53  | 7.070     | 7.070         | 0.000         | 93  | 193902   | 10.0            | 9.67              |       |
| 33 Hexane                     | 57  | 7.295     | 7.295         | 0.000         | 90  | 553933   | 10.0            | 9.72              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 7.728     | 7.728          | 0.000         | 99  | 856030    | 10.0            | 9.28              |       |
| 35 Vinyl acetate               | 43  | 7.787     | 7.787          | 0.000         | 100 | 746302    | 10.0            | 10.7              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.729     | 8.729          | 0.000         | 89  | 563393    | 10.0            | 10.1              |       |
| 38 2-Butanone (MEK)            | 72  | 8.793     | 8.793          | 0.000         | 99  | 168980    | 10.0            | 9.37              |       |
| 39 Ethyl acetate               | 88  | 8.830     | 8.830          | 0.000         | 99  | 27244     | 10.0            | 10.6              |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.157          | 0.000         | 74  | 645208    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 84  | 318927    | 10.0            | 9.79              |       |
| 42 Chloroform                  | 83  | 9.269     | 9.269          | 0.000         | 95  | 1305451   | 10.0            | 9.69              |       |
| 43 Cyclohexane                 | 84  | 9.526     | 9.526          | 0.000         | 95  | 612698    | 10.0            | 9.35              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.542          | 0.000         | 94  | 1507834   | 10.0            | 9.50              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 19.6              |       |
| 45 Carbon tetrachloride        | 117 | 9.783     | 9.783          | 0.000         | 98  | 1673995   | 10.0            | 9.87              |       |
| 46 Isooctane                   | 57  | 10.195    | 10.195         | 0.000         | 97  | 2021827   | 10.0            | 9.33              |       |
| 47 Benzene                     | 78  | 10.216    | 10.216         | 0.000         | 95  | 1533527   | 10.0            | 10.1              |       |
| 48 1,2-Dichloroethane          | 62  | 10.382    | 10.382         | 0.000         | 99  | 834932    | 10.0            | 9.49              |       |
| 49 n-Heptane                   | 43  | 10.564    | 10.564         | 0.000         | 91  | 736676    | 10.0            | 9.42              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.018    | 11.018         | 0.000         | 93  | 2855376   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.463    | 11.463         | 0.000         | 89  | 207798    | 10.0            | 8.08              |       |
| 53 Trichloroethene             | 95  | 11.479    | 11.479         | 0.000         | 99  | 896351    | 10.0            | 9.01              |       |
| 54 1,2-Dichloropropane         | 63  | 12.019    | 12.019         | 0.000         | 85  | 529540    | 10.0            | 9.88              |       |
| 55 Methyl methacrylate         | 69  | 12.206    | 12.206         | 0.000         | 95  | 436484    | 10.0            | 9.86              |       |
| A 51 GRO                       | 1   | 12.257    | (4.423-20.091) |               | 0   | 232682143 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.270    | 12.270         | 0.000         | 95  | 896168    | 10.0            | 9.77              |       |
| 56 1,4-Dioxane                 | 88  | 12.286    | 12.286         | 0.000         | 88  | 292753    | 10.0            | 10.5              |       |
| 58 Dichlorobromomethane        | 83  | 12.559    | 12.559         | 0.000         | 98  | 1572273   | 10.0            | 10.2              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.474    | 13.474         | 0.000         | 93  | 952229    | 10.0            | 9.95              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.790    | 13.790         | 0.000         | 97  | 913087    | 10.0            | 9.23              |       |
| 65 Toluene                     | 92  | 14.057    | 14.057         | 0.000         | 95  | 1112366   | 10.0            | 10.5              |       |
| 64 n-Octane                    | 43  | 14.148    | 14.148         | 0.000         | 89  | 1090050   | 10.0            | 9.47              |       |
| A 59 TVOC as Toluene           | 92  | 14.159    | (3.086-25.232) |               | 0   | 362519147 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.656    | 14.656         | 0.000         | 97  | 920057    | 10.0            | 9.78              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.025    | 15.025         | 0.000         | 97  | 600039    | 10.0            | 10.5              |       |
| 68 Tetrachloroethene           | 166 | 15.143    | 15.143         | 0.000         | 96  | 1364456   | 10.0            | 10.8              |       |
| 69 2-Hexanone                  | 43  | 15.507    | 15.507         | 0.000         | 94  | 877166    | 10.0            | 9.44              |       |
| 71 Chlorodibromomethane        | 129 | 15.780    | 15.780         | 0.000         | 97  | 1684232   | 10.0            | 11.0              |       |
| 72 Ethylene Dibromide          | 107 | 16.047    | 16.047         | 0.000         | 99  | 1250398   | 10.0            | 10.8              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957         | 0.000         | 84  | 2611220   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.021    | 17.021         | 0.000         | 97  | 1717348   | 10.0            | 10.6              |       |
| 76 Ethylbenzene                | 91  | 17.187    | 17.187         | 0.000         | 98  | 2521434   | 10.0            | 10.6              |       |
| 77 n-Nonane                    | 57  | 17.353    | 17.353         | 0.000         | 86  | 1027174   | 10.0            | 9.86              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.438         | 0.000         | 0   | 2039050   | 20.0            | 21.1              |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.289         | 0.000         | 99  | 992168    | 10.0            | 10.8              |       |
| 80 Styrene                     | 104 | 18.342    | 18.342         | 0.000         | 98  | 1525862   | 10.0            | 10.9              |       |
| 81 Bromoform                   | 173 | 18.781    | 18.781         | 0.000         | 96  | 1582349   | 10.0            | 11.4              |       |
| 82 Isopropylbenzene            | 105 | 19.043    | 19.043         | 0.000         | 96  | 2964401   | 10.0            | 11.0              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 31.9              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.765    | 19.765         | 0.000         | 99  | 1497860   | 10.0            | 10.2              |       |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.846         | 0.000         | 99  | 3416507   | 10.0            | 10.7              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.862    | 19.862         | 0.000         | 96  | 1181914   | 10.0            | 9.51              |       |
| 89 2-Chlorotoluene             | 91  | 20.049    | 20.049         | 0.000         | 96  | 2499147   | 10.0            | 10.4              |       |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.054         | 0.000         | 98  | 2957091   | 10.0            | 10.9              |       |
| 87 n-Decane                    | 57  | 20.081    | 20.081         | 0.000         | 93  | 1260421   | 10.0            | 9.79              |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 20.177    | 20.177        | 0.000         | 93 | 2535844  | 10.0            | 10.9              |       |
| 91 Alpha Methyl Styrene    | 118 | 20.568    | 20.568        | 0.000         | 91 | 1301999  | 10.0            | 11.9              |       |
| 92 tert-Butylbenzene       | 119 | 20.696    | 20.696        | 0.000         | 92 | 2411841  | 10.0            | 11.1              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.798    | 20.798        | 0.000         | 97 | 2536281  | 10.0            | 11.0              |       |
| 94 sec-Butylbenzene        | 105 | 21.044    | 21.044        | 0.000         | 99 | 3624719  | 10.0            | 11.2              |       |
| 95 4-Isopropyltoluene      | 119 | 21.263    | 21.263        | 0.000         | 97 | 3139036  | 10.0            | 11.3              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.274    | 21.274        | 0.000         | 96 | 1972984  | 10.0            | 10.6              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.418    | 21.418        | 0.000         | 96 | 1925474  | 10.0            | 10.8              |       |
| 98 Benzyl chloride         | 91  | 21.622    | 21.622        | 0.000         | 99 | 2286248  | 10.0            | 10.4              |       |
| 100 n-Butylbenzene         | 91  | 21.852    | 21.852        | 0.000         | 98 | 2792436  | 10.0            | 11.1              |       |
| 99 Undecane                | 57  | 21.905    | 21.905        | 0.000         | 93 | 1359022  | 10.0            | 9.58              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.948    | 21.948        | 0.000         | 97 | 1848703  | 10.0            | 10.8              |       |
| 102 Dodecane               | 57  | 23.435    | 23.435        | 0.000         | 96 | 948438   | 10.0            | 8.35              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334    | 24.334        | 0.000         | 94 | 1078810  | 10.0            | 8.39              |       |
| 104 Hexachlorobutadiene    | 225 | 24.526    | 24.526        | 0.000         | 98 | 1183898  | 10.0            | 9.26              |       |
| 105 Naphthalene            | 128 | 24.778    | 24.778        | 0.000         | 99 | 1931593  | 10.0            | 7.75              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.222    | 25.222        | 0.000         | 96 | 854333   | 10.0            | 7.69              |       |

**QC Flag Legend**

Review Flags

a - User Assigned ID

**Reagents:**

ATTO15CAL4w\_00706

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-003.D

Injection Date: 05-Dec-2018 15:48:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: ccvis

Worklist Smp#: 3

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

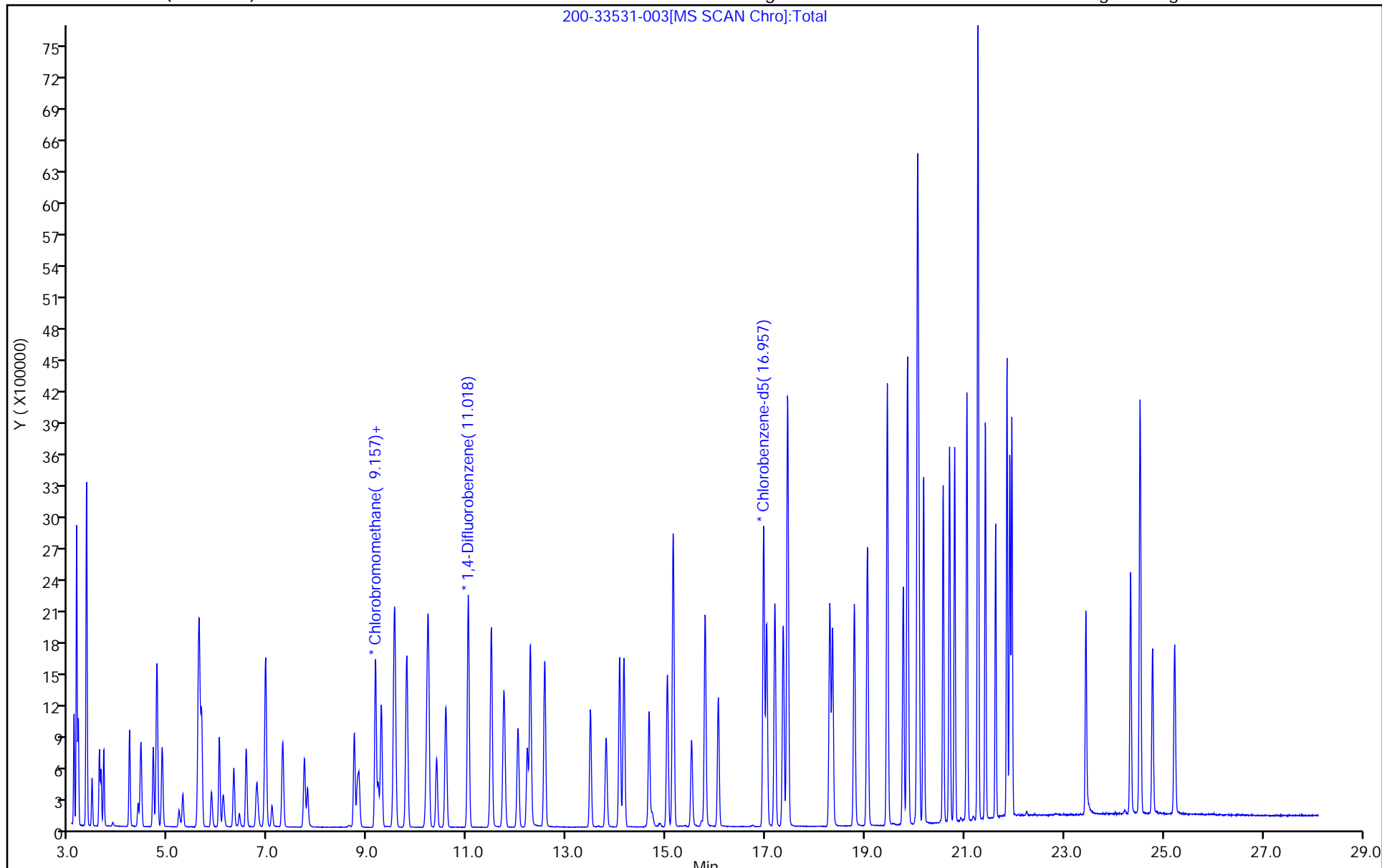
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

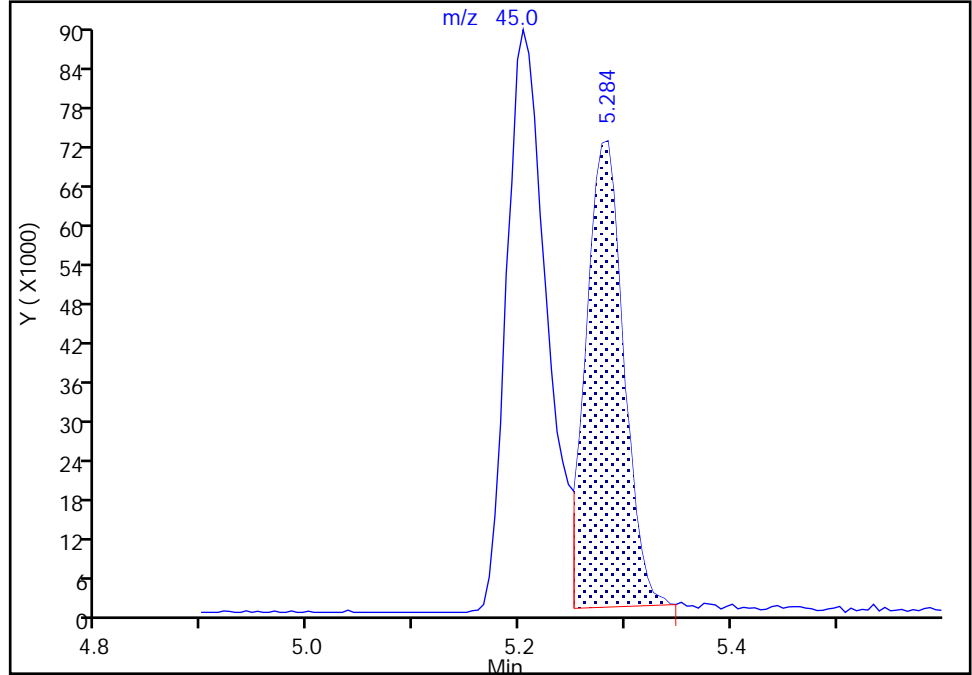
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Injection Date: 05-Dec-2018 15:48:30 Instrument ID: CHG.i  
Lims ID: ccvis  
Client ID:  
Operator ID: ert ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

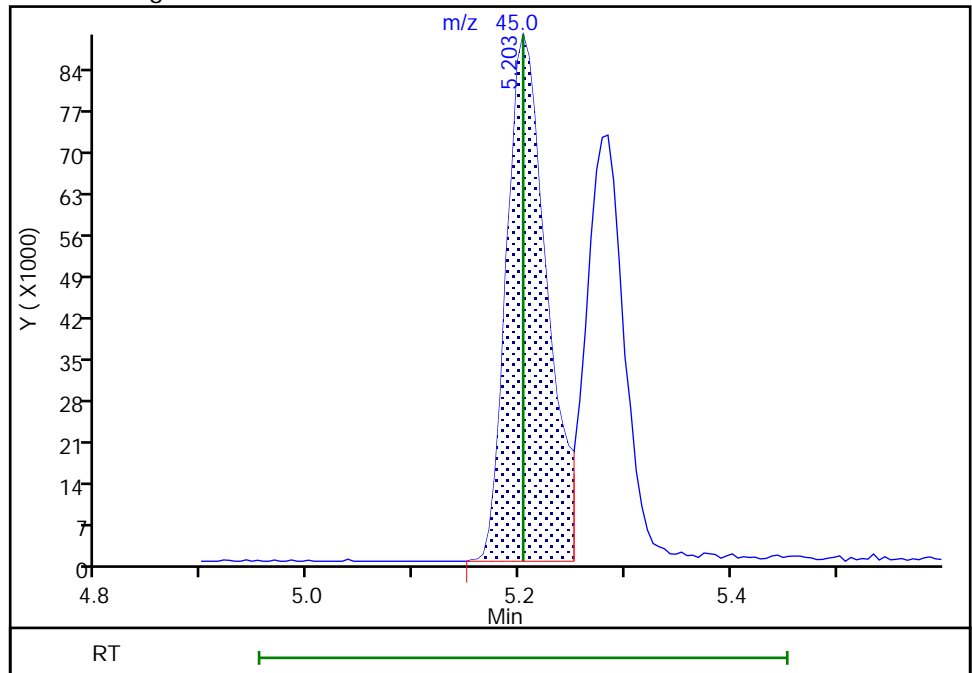
RT: 5.28  
Area: 176661  
Amount: 13.540377  
Amount Units: ppb v/v

Processing Integration Results



RT: 5.20  
Area: 238410  
Amount: 18.273196  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: tobere, 05-Dec-2018 16:46:03  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                        | Ave        | 0.6903  | 0.6584 |         | 9.54        | 10.0         | -4.6  | 30.0   |
| Dichlorodifluoromethane          | Ave        | 3.731   | 3.979  |         | 10.7        | 10.0         | 6.6   | 30.0   |
| Chlorodifluoromethane            | Ave        | 1.588   | 1.527  |         | 9.62        | 10.0         | -3.8  | 30.0   |
| 1,2-Dichlorotetrafluoroethane    | Ave        | 2.808   | 3.006  |         | 10.7        | 10.0         | 7.1   | 30.0   |
| Chloromethane                    | Ave        | 0.7259  | 0.6469 |         | 8.91        | 10.0         | -10.9 | 30.0   |
| n-Butane                         | Ave        | 0.9772  | 0.8850 |         | 9.06        | 10.0         | -9.4  | 30.0   |
| Vinyl chloride                   | Ave        | 0.8738  | 0.7531 |         | 8.62        | 10.0         | -13.8 | 30.0   |
| 1,3-Butadiene                    | Ave        | 0.5437  | 0.4877 |         | 8.97        | 10.0         | -10.3 | 30.0   |
| Bromomethane                     | Ave        | 1.009   | 0.9575 |         | 9.49        | 10.0         | -5.1  | 30.0   |
| Chloroethane                     | Ave        | 0.3363  | 0.3066 |         | 9.12        | 10.0         | -8.8  | 30.0   |
| Isopentane                       | Ave        | 0.6451  | 0.5908 |         | 9.16        | 10.0         | -8.4  | 30.0   |
| Bromoethene (Vinyl Bromide)      | Ave        | 0.997   | 0.9839 |         | 9.86        | 10.0         | -1.4  | 30.0   |
| Trichlorofluoromethane           | Ave        | 2.948   | 2.865  |         | 9.72        | 10.0         | -2.8  | 30.0   |
| n-Pentane                        | Ave        | 0.9764  | 0.9018 |         | 9.23        | 10.0         | -7.6  | 30.0   |
| Ethanol                          | Ave        | 0.2022  | 0.2243 |         | 16.6        | 15.0         | 10.9  | 30.0   |
| Ethyl ether                      | Ave        | 0.3425  | 0.3760 |         | 11.0        | 10.0         | 9.8   | 30.0   |
| Acrolein                         | Ave        | 0.1311  | 0.1292 |         | 9.85        | 10.0         | -1.5  | 30.0   |
| 1,1,2-Trichlorotrifluoroethane   | Ave        | 2.077   | 1.812  |         | 8.72        | 10.0         | -12.7 | 30.0   |
| 1,1-Dichloroethene               | Ave        | 0.9142  | 0.7869 |         | 8.61        | 10.0         | -13.9 | 30.0   |
| Acetone                          | Ave        | 0.7785  | 0.7483 |         | 9.61        | 10.0         | -3.9  | 30.0   |
| Carbon disulfide                 | Ave        | 2.351   | 2.255  |         | 9.59        | 10.0         | -4.1  | 30.0   |
| Isopropyl alcohol                | Ave        | 0.8603  | 0.7620 |         | 8.86        | 10.0         | -11.4 | 30.0   |
| 3-Chloropropene                  | Ave        | 0.6801  | 0.5461 |         | 8.03        | 10.0         | -19.7 | 30.0   |
| Acetonitrile                     | Ave        | 0.2847  | 0.2865 |         | 10.1        | 10.0         | 0.6   | 30.0   |
| Methylene Chloride               | Ave        | 0.8250  | 0.6889 |         | 8.35        | 10.0         | -16.5 | 30.0   |
| tert-Butyl alcohol               | Ave        | 1.315   | 1.252  |         | 9.52        | 10.0         | -4.8  | 30.0   |
| Methyl tert-butyl ether          | Ave        | 1.777   | 1.767  |         | 9.94        | 10.0         | -0.6  | 30.0   |
| trans-1,2-Dichloroethene         | Ave        | 1.108   | 1.029  |         | 9.29        | 10.0         | -7.1  | 30.0   |
| Acrylonitrile                    | Ave        | 0.3108  | 0.2936 |         | 9.45        | 10.0         | -5.5  | 30.0   |
| n-Hexane                         | Ave        | 0.8829  | 0.8359 |         | 9.47        | 10.0         | -5.3  | 30.0   |
| 1,1-Dichloroethane               | Ave        | 1.429   | 1.221  |         | 8.54        | 10.0         | -14.6 | 30.0   |
| Vinyl acetate                    | Ave        | 1.081   | 1.092  |         | 10.1        | 10.0         | 1.0   | 30.0   |
| cis-1,2-Dichloroethene           | Ave        | 0.8660  | 0.8259 |         | 9.54        | 10.0         | -4.6  | 30.0   |
| Methyl Ethyl Ketone (2-Butanone) | Ave        | 0.2794  | 0.2535 |         | 9.07        | 10.0         | -9.2  | 30.0   |
| Ethyl acetate                    | Ave        | 0.0398  | 0.0400 |         | 10.0        | 10.0         | 0.4   | 30.0   |
| Tetrahydrofuran                  | Ave        | 0.1141  | 0.0985 |         | 8.63        | 10.0         | -13.6 | 30.0   |
| Chloroform                       | Ave        | 2.089   | 1.852  |         | 8.86        | 10.0         | -11.3 | 30.0   |
| Cyclohexane                      | Ave        | 0.2295  | 0.1856 |         | 8.08        | 10.0         | -19.1 | 30.0   |
| 1,1,1-Trichloroethane            | Ave        | 0.5556  | 0.4515 |         | 8.12        | 10.0         | -18.7 | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Carbon tetrachloride                          | Ave        | 0.5937  | 0.5175 |         | 8.71        | 10.0         | -12.8 | 30.0   |
| 2,2,4-Trimethylpentane                        | Ave        | 0.7593  | 0.5820 |         | 7.66        | 10.0         | -23.4 | 30.0   |
| Benzene                                       | Ave        | 0.5325  | 0.4116 |         | 7.73        | 10.0         | -22.7 | 30.0   |
| 1,2-Dichloroethane                            | Ave        | 0.3080  | 0.2234 |         | 7.25        | 10.0         | -27.5 | 30.0   |
| n-Heptane                                     | Ave        | 0.2740  | 0.2044 |         | 7.46        | 10.0         | -25.4 | 30.0   |
| n-Butanol                                     | Ave        | 0.0901  | 0.0805 |         | 8.93        | 10.0         | -10.7 | 30.0   |
| Trichloroethene                               | Ave        | 0.3485  | 0.2800 |         | 8.03        | 10.0         | -19.6 | 30.0   |
| 1,2-Dichloropropane                           | Ave        | 0.1877  | 0.1469 |         | 7.82        | 10.0         | -21.7 | 30.0   |
| Methyl methacrylate                           | Ave        | 0.1550  | 0.1432 |         | 9.23        | 10.0         | -7.7  | 30.0   |
| Dibromomethane                                | Ave        | 0.3211  | 0.2741 |         | 8.53        | 10.0         | -14.7 | 30.0   |
| 1,4-Dioxane                                   | Ave        | 0.0979  | 0.0862 |         | 8.80        | 10.0         | -12.0 | 30.0   |
| Bromodichloromethane                          | Ave        | 0.5411  | 0.4460 |         | 8.24        | 10.0         | -17.6 | 30.0   |
| cis-1,3-Dichloropropene                       | Ave        | 0.3350  | 0.2657 |         | 7.93        | 10.0         | -20.7 | 30.0   |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) | Ave        | 0.3463  | 0.2867 |         | 8.28        | 10.0         | -17.2 | 30.0   |
| Toluene                                       | Ave        | 0.4051  | 0.3659 |         | 9.03        | 10.0         | -9.7  | 30.0   |
| n-Octane                                      | Ave        | 0.4030  | 0.3027 |         | 7.51        | 10.0         | -24.9 | 30.0   |
| trans-1,3-Dichloropropene                     | Ave        | 0.3295  | 0.2931 |         | 8.89        | 10.0         | -11.0 | 30.0   |
| 1,1,2-Trichloroethane                         | Ave        | 0.2192  | 0.1983 |         | 9.05        | 10.0         | -9.5  | 30.0   |
| Tetrachloroethene                             | Ave        | 0.4850  | 0.4678 |         | 9.64        | 10.0         | -3.6  | 30.0   |
| Methyl Butyl Ketone (2-Hexanone)              | Ave        | 0.3560  | 0.3033 |         | 8.52        | 10.0         | -14.8 | 30.0   |
| Dibromochloromethane                          | Ave        | 0.5859  | 0.5384 |         | 9.19        | 10.0         | -8.1  | 30.0   |
| 1,2-Dibromoethane                             | Ave        | 0.4426  | 0.4186 |         | 9.46        | 10.0         | -5.4  | 30.0   |
| Chlorobenzene                                 | Ave        | 0.6231  | 0.5665 |         | 9.09        | 10.0         | -9.1  | 30.0   |
| Ethylbenzene                                  | Ave        | 0.9122  | 0.8518 |         | 9.34        | 10.0         | -6.6  | 30.0   |
| n-Nonane                                      | Ave        | 0.3988  | 0.3218 |         | 8.07        | 10.0         | -19.3 | 30.0   |
| m,p-Xylene                                    | Ave        | 0.3698  | 0.3499 |         | 18.9        | 20.0         | -5.4  | 30.0   |
| o-Xylene                                      | Ave        | 0.3514  | 0.3434 |         | 9.77        | 10.0         | -2.3  | 30.0   |
| Styrene                                       | Ave        | 0.5379  | 0.5250 |         | 9.76        | 10.0         | -2.4  | 30.0   |
| Bromoform                                     | Ave        | 0.5301  | 0.5199 |         | 9.81        | 10.0         | -1.9  | 30.0   |
| Cumene  | Ave        | 1.028   | 0.998  |         | 9.71        | 10.0         | -2.9  | 30.0   |
| 1,1,2,2-Tetrachloroethane                     | Ave        | 0.5606  | 0.5177 |         | 9.23        | 10.0         | -7.7  | 30.0   |
| n-Propylbenzene                               | Ave        | 1.224   | 1.165  |         | 9.52        | 10.0         | -4.8  | 30.0   |
| 1,2,3-Trichloropropane                        | Ave        | 0.4759  | 0.3862 |         | 8.11        | 10.0         | -18.9 | 30.0   |
| 2-Chlorotoluene                               | Ave        | 0.9241  | 0.8553 |         | 9.25        | 10.0         | -7.4  | 30.0   |
| 4-Ethyltoluene                                | Ave        | 1.042   | 1.032  |         | 9.91        | 10.0         | -0.9  | 30.0   |
| n-Decane                                      | Ave        | 0.4933  | 0.3951 |         | 8.01        | 10.0         | -19.9 | 30.0   |
| 1,3,5-Trimethylbenzene                        | Ave        | 0.8912  | 0.8741 |         | 9.81        | 10.0         | -1.9  | 30.0   |
| Alpha Methyl Styrene                          | Ave        | 0.4187  | 0.4445 |         | 10.6        | 10.0         | 6.2   | 30.0   |
| tert-Butylbenzene                             | Ave        | 0.8336  | 0.8243 |         | 9.89        | 10.0         | -1.1  | 30.0   |
| 1,2,4-Trimethylbenzene                        | Ave        | 0.8792  | 0.8751 |         | 9.95        | 10.0         | -0.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Lab Sample ID: CCVIS 200-137867/3 Calibration Date: 12/06/2018 15:53  
 Instrument ID: CHG.i Calib Start Date: 11/27/2018 20:22  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/28/2018 02:15  
 Lab File ID: 200-33558-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| sec-Butylbenzene       | Ave        | 1.236   | 1.207  |         | 9.76        | 10.0         | -2.4  | 30.0   |
| 4-Isopropyltoluene     | Ave        | 1.059   | 1.056  |         | 9.97        | 10.0         | -0.3  | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.7126  | 0.7107 |         | 9.97        | 10.0         | -0.3  | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.6814  | 0.7008 |         | 10.3        | 10.0         | 2.9   | 30.0   |
| Benzyl chloride        | Ave        | 0.8411  | 0.7454 |         | 8.86        | 10.0         | -11.4 | 30.0   |
| n-Butylbenzene         | Ave        | 0.9659  | 0.9229 |         | 9.55        | 10.0         | -4.5  | 30.0   |
| n-Undecane             | Ave        | 0.5433  | 0.4334 |         | 7.98        | 10.0         | -20.2 | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.6549  | 0.6607 |         | 10.1        | 10.0         | 0.9   | 30.0   |
| n-Dodecane             | Ave        | 0.4351  | 0.3421 |         | 7.86        | 10.0         | -21.4 | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.4922  | 0.4566 |         | 9.27        | 10.0         | -7.2  | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.4897  | 0.4540 |         | 9.27        | 10.0         | -7.3  | 30.0   |
| Naphthalene            | Ave        | 0.9543  | 0.8023 |         | 8.41        | 10.0         | -15.9 | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.4252  | 0.3688 |         | 8.67        | 10.0         | -13.3 | 30.0   |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-003.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 06-Dec-2018 15:53:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-003  
 Operator ID: ert Instrument ID: CHG.i  
 Sublist: chrom-TO15\_MasterMethod\_(v1)\_G\*sub1  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 15:48:38 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0310

First Level Reviewer: puangmaleek

Date: 07-Dec-2018 15:48:37

| Compound                               | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                              | 41  | 3.090     | 3.090         | 0.000         | 97  | 426047   | 10.0            | 9.54              |       |
| 2 Dichlorodifluoromethane              | 85  | 3.144     | 3.144         | 0.000         | 99  | 2574400  | 10.0            | 10.7              |       |
| 3 Chlorodifluoromethane                | 51  | 3.176     | 3.176         | 0.000         | 96  | 988343   | 10.0            | 9.62              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra           | 85  | 3.342     | 3.342         | 0.000         | 90  | 1945250  | 10.0            | 10.7              |       |
| 5 Chloromethane                        | 50  | 3.454     | 3.454         | 0.000         | 99  | 418601   | 10.0            | 8.91              |       |
| 6 Butane                               | 43  | 3.604     | 3.604         | 0.000         | 96  | 572689   | 10.0            | 9.06              |       |
| 7 Vinyl chloride                       | 62  | 3.636     | 3.636         | 0.000         | 98  | 487303   | 10.0            | 8.62              |       |
| 8 Butadiene                            | 54  | 3.689     | 3.689         | 0.000         | 95  | 315595   | 10.0            | 8.97              |       |
| 10 Bromomethane                        | 94  | 4.208     | 4.208         | 0.000         | 99  | 619594   | 10.0            | 9.49              |       |
| 11 Chloroethane                        | 64  | 4.380     | 4.380         | 0.000         | 99  | 198385   | 10.0            | 9.12              |       |
| 12 2-Methylbutane                      | 43  | 4.438     | 4.438         | 0.000         | 87  | 382267   | 10.0            | 9.16              |       |
| 13 Vinyl bromide                       | 106 | 4.684     | 4.684         | 0.000         | 99  | 636654   | 10.0            | 9.86              |       |
| 14 Trichlorofluoromethane              | 101 | 4.759     | 4.759         | 0.000         | 98  | 1854168  | 10.0            | 9.72              |       |
| 16 Pentane                             | 43  | 4.861     | 4.861         | 0.000         | 98  | 583506   | 10.0            | 9.23              |       |
| 17 Ethanol                             | 45  | 5.203     | 5.203         | 0.000         | 97  | 217780   | 15.0            | 16.6              |       |
| 18 Ethyl ether                         | 59  | 5.278     | 5.278         | 0.000         | 97  | 243302   | 10.0            | 11.0              |       |
| 19 Acrolein                            | 56  | 5.589     | 5.589         | 0.000         | 96  | 83586    | 10.0            | 9.85              |       |
| 20 1,1,2-Trichloro-1,2,2-trif<br>9 BFB | 101 | 5.605     | 5.605         | 0.000         | 97  | 1172522  | 10.0            | 8.72              |       |
| 21 1,1-Dichloroethene                  | 96  | 5.658     | 5.658         | 0.000         | 96  | 509154   | 10.0            | 8.61              |       |
| 22 Acetone                             | 43  | 5.856     | 5.856         | 0.000         | 99  | 484234   | 10.0            | 9.61              |       |
| 23 Carbon disulfide                    | 76  | 6.011     | 6.011         | 0.000         | 99  | 1459222  | 10.0            | 9.59              |       |
| 24 Isopropyl alcohol                   | 45  | 6.091     | 6.091         | 0.000         | 100 | 493074   | 10.0            | 8.86              |       |
| 25 3-Chloro-1-propene                  | 41  | 6.300     | 6.300         | 0.000         | 94  | 353395   | 10.0            | 8.03              |       |
| 26 Acetonitrile                        | 41  | 6.412     | 6.412         | 0.000         | 98  | 185376   | 10.0            | 10.1              |       |
| 27 Methylene Chloride                  | 49  | 6.551     | 6.551         | 0.000         | 87  | 445788   | 10.0            | 8.35              |       |
| 28 2-Methyl-2-propanol                 | 59  | 6.765     | 6.765         | 0.000         | 94  | 810429   | 10.0            | 9.52              |       |
| 29 Methyl tert-butyl ether             | 73  | 6.931     | 6.931         | 0.000         | 95  | 1143390  | 10.0            | 9.94              |       |
| 31 trans-1,2-Dichloroethene            | 61  | 6.947     | 6.947         | 0.000         | 94  | 665981   | 10.0            | 9.29              |       |
| 32 Acrylonitrile                       | 53  | 7.070     | 7.070         | 0.000         | 92  | 189989   | 10.0            | 9.45              |       |
| 33 Hexane                              | 57  | 7.290     | 7.290         | 0.000         | 90  | 540881   | 10.0            | 9.47              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 7.718     | 7.718          | 0.000         | 99  | 789945    | 10.0            | 8.54              |       |
| 35 Vinyl acetate               | 43  | 7.782     | 7.782          | 0.000         | 100 | 706507    | 10.0            | 10.1              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.723     | 8.723          | 0.000         | 88  | 534404    | 10.0            | 9.54              |       |
| 38 2-Butanone (MEK)            | 72  | 8.788     | 8.788          | 0.000         | 100 | 164061    | 10.0            | 9.07              |       |
| 39 Ethyl acetate               | 88  | 8.820     | 8.820          | 0.000         | 99  | 25870     | 10.0            | 10.0              |       |
| * 40 Chlorobromomethane        | 128 | 9.151     | 9.151          | 0.000         | 72  | 647200    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.210     | 9.210          | 0.000         | 83  | 314794    | 10.0            | 8.63              |       |
| 42 Chloroform                  | 83  | 9.269     | 9.269          | 0.000         | 96  | 1198307   | 10.0            | 8.86              |       |
| 43 Cyclohexane                 | 84  | 9.526     | 9.526          | 0.000         | 93  | 592968    | 10.0            | 8.08              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.542          | 0.000         | 94  | 1442634   | 10.0            | 8.12              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 18.8              |       |
| 45 Carbon tetrachloride        | 117 | 9.783     | 9.783          | 0.000         | 98  | 1653437   | 10.0            | 8.71              |       |
| 46 Isooctane                   | 57  | 10.200    | 10.200         | 0.000         | 97  | 1859313   | 10.0            | 7.66              |       |
| 47 Benzene                     | 78  | 10.216    | 10.216         | 0.000         | 95  | 1314999   | 10.0            | 7.73              |       |
| 48 1,2-Dichloroethane          | 62  | 10.382    | 10.382         | 0.000         | 99  | 713814    | 10.0            | 7.25              |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.569         | 0.000         | 90  | 652888    | 10.0            | 7.46              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.019    | 11.019         | 0.000         | 93  | 3195571   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.457    | 11.457         | 0.000         | 88  | 257152    | 10.0            | 8.93              |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.484         | 0.000         | 99  | 894563    | 10.0            | 8.03              |       |
| 54 1,2-Dichloropropane         | 63  | 12.024    | 12.024         | 0.000         | 87  | 469346    | 10.0            | 7.82              |       |
| 55 Methyl methacrylate         | 69  | 12.206    | 12.206         | 0.000         | 96  | 457393    | 10.0            | 9.23              |       |
| A 51 GRO                       | 1   | 12.257    | (4.428-20.086) |               | 0   | 225855430 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.270    | 12.270         | 0.000         | 94  | 875599    | 10.0            | 8.53              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.281         | 0.000         | 87  | 275309    | 10.0            | 8.80              |       |
| 58 Dichlorobromomethane        | 83  | 12.554    | 12.554         | 0.000         | 98  | 1424946   | 10.0            | 8.24              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.474    | 13.474         | 0.000         | 92  | 848748    | 10.0            | 7.93              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.790    | 13.790         | 0.000         | 96  | 915937    | 10.0            | 8.28              |       |
| 65 Toluene                     | 92  | 14.062    | 14.062         | 0.000         | 94  | 1097426   | 10.0            | 9.03              |       |
| 64 n-Octane                    | 43  | 14.148    | 14.148         | 0.000         | 87  | 967019    | 10.0            | 7.51              |       |
| A 59 TVOC as Toluene           | 92  | 14.153    | (3.080-25.227) |               | 0   | 362439345 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.651    | 14.651         | 0.000         | 96  | 936516    | 10.0            | 8.89              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.020    | 15.020         | 0.000         | 96  | 594913    | 10.0            | 9.05              |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.138         | 0.000         | 96  | 1403080   | 10.0            | 9.64              |       |
| 69 2-Hexanone                  | 43  | 15.507    | 15.507         | 0.000         | 95  | 909756    | 10.0            | 8.52              |       |
| 71 Chlorodibromomethane        | 129 | 15.780    | 15.780         | 0.000         | 97  | 1614874   | 10.0            | 9.19              |       |
| 72 Ethylene Dibromide          | 107 | 16.042    | 16.042         | 0.000         | 99  | 1255592   | 10.0            | 9.46              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957         | 0.000         | 84  | 3000021   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.016    | 17.016         | 0.000         | 96  | 1699306   | 10.0            | 9.09              |       |
| 76 Ethylbenzene                | 91  | 17.181    | 17.181         | 0.000         | 98  | 2554883   | 10.0            | 9.34              |       |
| 77 n-Nonane                    | 57  | 17.347    | 17.347         | 0.000         | 83  | 965315    | 10.0            | 8.07              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.438         | 0.000         | 0   | 2099082   | 20.0            | 18.9              |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.289         | 0.000         | 99  | 1030106   | 10.0            | 9.77              |       |
| 80 Styrene                     | 104 | 18.342    | 18.342         | 0.000         | 98  | 1574567   | 10.0            | 9.76              |       |
| 81 Bromoform                   | 173 | 18.781    | 18.781         | 0.000         | 97  | 1559464   | 10.0            | 9.81              |       |
| 82 Isopropylbenzene            | 105 | 19.043    | 19.043         | 0.000         | 96  | 2993347   | 10.0            | 9.71              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 28.7              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.760    | 19.760         | 0.000         | 99  | 1552702   | 10.0            | 9.23              |       |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.846         | 0.000         | 99  | 3494721   | 10.0            | 9.52              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.856    | 19.856         | 0.000         | 96  | 1158286   | 10.0            | 8.11              |       |
| 89 2-Chlorotoluene             | 91  | 20.043    | 20.043         | 0.000         | 96  | 2565387   | 10.0            | 9.25              |       |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.054         | 0.000         | 98  | 3095789   | 10.0            | 9.91              |       |
| 87 n-Decane                    | 57  | 20.076    | 20.076         | 0.000         | 94  | 1185108   | 10.0            | 8.01              |       |



| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 20.172    | 20.172        | 0.000         | 93 | 2621701  | 10.0            | 9.81              |       |
| 91 Alpha Methyl Styrene    | 118 | 20.568    | 20.568        | 0.000         | 91 | 1333311  | 10.0            | 10.6              |       |
| 92 tert-Butylbenzene       | 119 | 20.691    | 20.691        | 0.000         | 92 | 2472444  | 10.0            | 9.89              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.798    | 20.798        | 0.000         | 97 | 2624672  | 10.0            | 9.95              |       |
| 94 sec-Butylbenzene        | 105 | 21.044    | 21.044        | 0.000         | 99 | 3619225  | 10.0            | 9.76              |       |
| 95 4-Isopropyltoluene      | 119 | 21.263    | 21.263        | 0.000         | 97 | 3168047  | 10.0            | 9.97              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.269    | 21.269        | 0.000         | 95 | 2131571  | 10.0            | 9.97              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.413    | 21.413        | 0.000         | 97 | 2102097  | 10.0            | 10.3              |       |
| 98 Benzyl chloride         | 91  | 21.616    | 21.616        | 0.000         | 99 | 2235681  | 10.0            | 8.86              |       |
| 100 n-Butylbenzene         | 91  | 21.846    | 21.846        | 0.000         | 98 | 2768086  | 10.0            | 9.55              |       |
| 99 Undecane                | 57  | 21.905    | 21.905        | 0.000         | 93 | 1299915  | 10.0            | 7.98              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.948    | 21.948        | 0.000         | 98 | 1981747  | 10.0            | 10.1              |       |
| 102 Dodecane               | 57  | 23.435    | 23.435        | 0.000         | 97 | 1025992  | 10.0            | 7.86              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334    | 24.334        | 0.000         | 94 | 1369559  | 10.0            | 9.27              |       |
| 104 Hexachlorobutadiene    | 225 | 24.527    | 24.527        | 0.000         | 95 | 1361845  | 10.0            | 9.27              |       |
| 105 Naphthalene            | 128 | 24.773    | 24.773        | 0.000         | 99 | 2406374  | 10.0            | 8.41              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.217    | 25.217        | 0.000         | 95 | 1106173  | 10.0            | 8.67              |       |

**Reagents:**

ATTO15CAL4w\_00706

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-003.D

Injection Date: 06-Dec-2018 15:53:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: ccvis

Worklist Smp#: 3

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

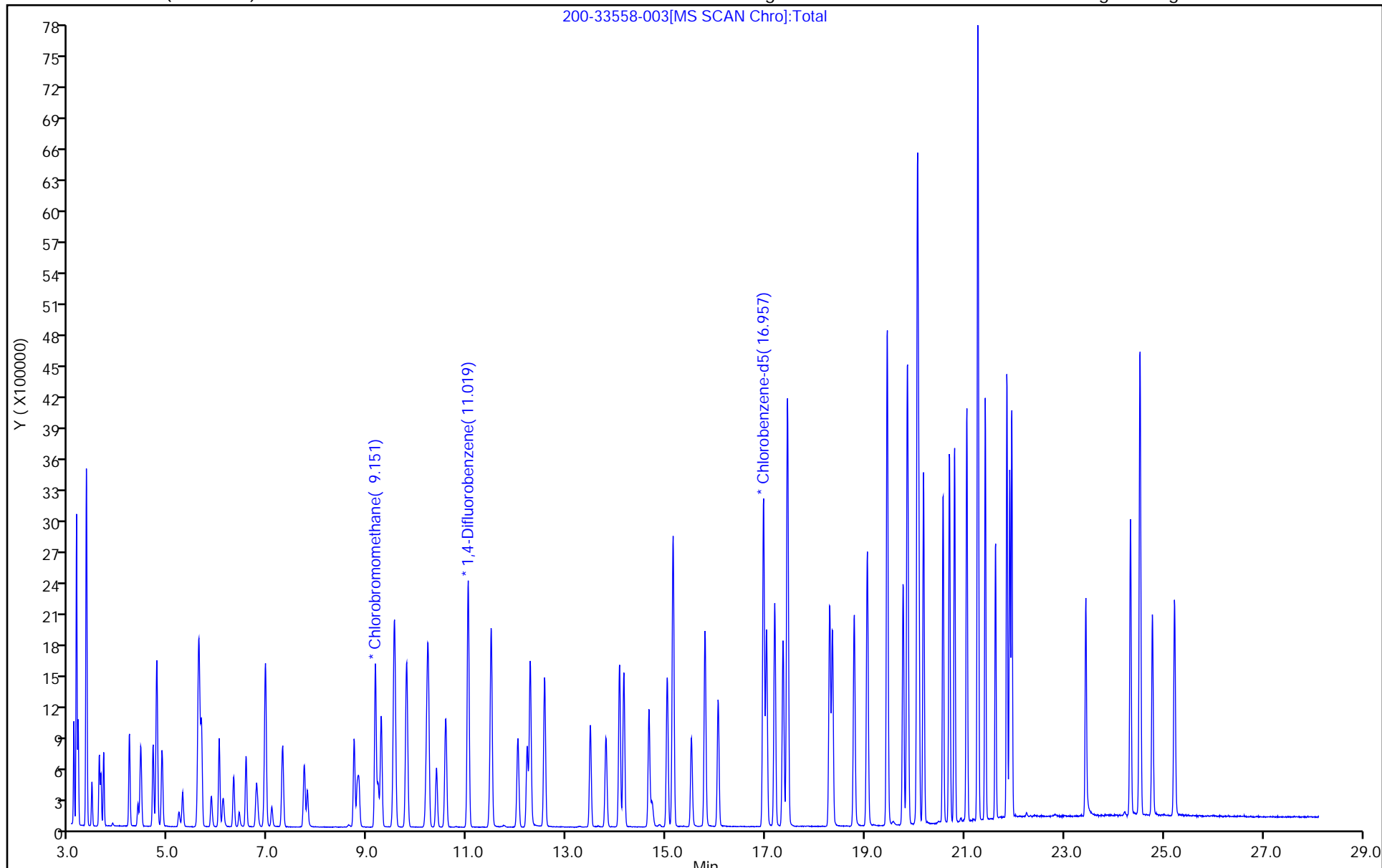
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D  
 Lims ID: bfb  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 04-Dec-2018 18:02:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033516-001  
 Misc. Info.: bfb  
 Operator ID: ert Instrument ID: CHC.i  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 10:35:38 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0313

First Level Reviewer: guazzonig Date: 05-Dec-2018 14:17:48

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|

|                          |     |  |        |  |  |  |      |    |  |
|--------------------------|-----|--|--------|--|--|--|------|----|--|
| 9 BFB                    |     |  |        |  |  |  |      |    |  |
| * 40 Chlorobromomethane  | 128 |  | 10.226 |  |  |  | 10.0 | ND |  |
| * 50 1,4-Difluorobenzene | 114 |  | 12.211 |  |  |  | 10.0 | ND |  |
| * 74 Chlorobenzene-d5    | 117 |  | 18.247 |  |  |  | 10.0 | ND |  |

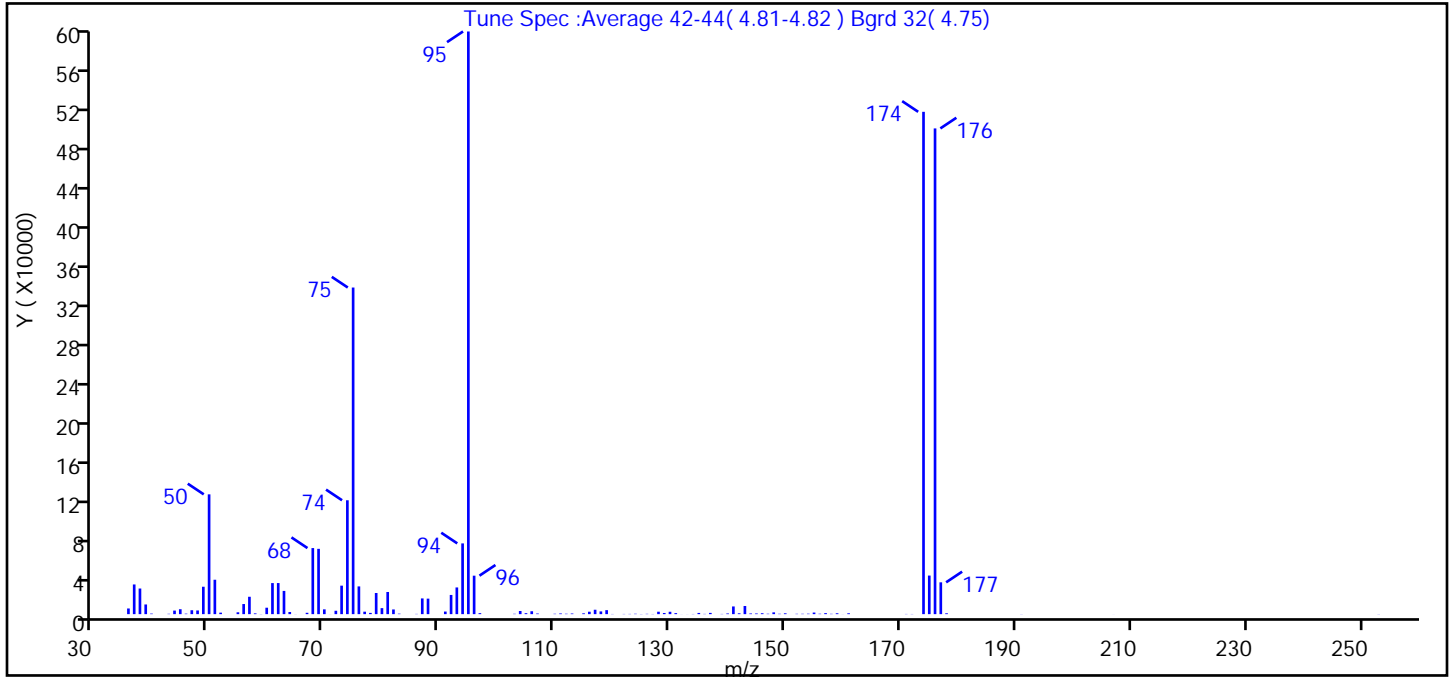
Reagents:

ATTO15CISs\_00010 Amount Added: 20.00 Units: mL Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D  
 Injection Date: 04-Dec-2018 18:02:30 Instrument ID: CHC.i  
 Lims ID: bfb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
 Tune Method: BFB Method TO-15

9 BFB



| m/z | Ion Abundance Criteria                    | % Relative Abundance |
|-----|---|----------------------|
| 95  | Base Peak, 100 Percent Relative Abundance | 100.0                |
| 50  | 8.0 to 40.0 Percent of m/e 95             | 20.6                 |
| 75  | 30.0 to 66.0 Percent of m/e 95            | 56.1                 |
| 96  | 5.0 to 9.0 Percent of m/e 95              | 6.6                  |
| 173 | Less than 2.0 Percent of m/e 174          | 0.0 (0.0)            |
| 174 | 50.0 to 120.0 Percent of m/e 95           | 86.2                 |
| 175 | 4.0 to 9.0 Percent of m/e 174             | 6.6 (7.7)            |
| 176 | 93.0 to 101.0 Percent of m/e 174          | 83.4 (96.7)          |
| 177 | 5.0 to 9.0 Percent of m/e 176             | 5.5 (6.6)            |

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D\TO15\_MasterMethod\_(v1)\_CHC  
Injection Date: 04-Dec-2018 18:02:30  
Spectrum: Tune Spec :Average 42-44( 4.81-4.82 ) Bgrd 32( 4.75)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 116

| m/z   | Y      | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|-------|--------|--------|--------|--------|------|--------|--------|
| 36.00 | 5786   | 70.00  | 4888   | 110.00 | 389  | 142.00 | 861    |
| 37.00 | 30320  | 71.00  | 58     | 111.00 | 711  | 143.00 | 8325   |
| 38.00 | 26168  | 72.00  | 3449   | 112.00 | 410  | 144.00 | 697    |
| 39.00 | 9889   | 73.00  | 29088  | 113.00 | 654  | 145.00 | 678    |
| 40.00 | 565    | 74.00  | 116304 | 115.00 | 833  | 146.00 | 925    |
| 43.00 | 342    | 75.00  | 333568 | 116.00 | 2479 | 147.00 | 413    |
| 44.00 | 3637   | 76.00  | 28328  | 117.00 | 4489 | 148.00 | 1815   |
| 45.00 | 5021   | 77.00  | 2520   | 118.00 | 2793 | 149.00 | 370    |
| 46.00 | 491    | 78.00  | 1279   | 119.00 | 4073 | 150.00 | 843    |
| 47.00 | 3998   | 79.00  | 21592  | 120.00 | 180  | 152.00 | 341    |
| 48.00 | 3762   | 80.00  | 6128   | 122.00 | 206  | 153.00 | 361    |
| 49.00 | 27992  | 81.00  | 22624  | 123.00 | 234  | 154.00 | 459    |
| 50.00 | 122344 | 82.00  | 4786   | 124.00 | 392  | 155.00 | 1626   |
| 51.00 | 35128  | 83.00  | 483    | 125.00 | 150  | 156.00 | 409    |
| 52.00 | 1521   | 86.00  | 249    | 126.00 | 316  | 157.00 | 1034   |
| 55.00 | 1893   | 87.00  | 16057  | 127.00 | 168  | 158.00 | 332    |
| 56.00 | 10316  | 88.00  | 15837  | 128.00 | 2480 | 159.00 | 888    |
| 57.00 | 17752  | 91.00  | 2651   | 129.00 | 1162 | 160.00 | 53     |
| 58.00 | 785    | 92.00  | 19600  | 130.00 | 2434 | 161.00 | 865    |
| 59.00 | 127    | 93.00  | 27264  | 131.00 | 1050 | 171.00 | 201    |
| 60.00 | 6564   | 94.00  | 72256  | 132.00 | 50   | 172.00 | 170    |
| 61.00 | 31720  | 95.00  | 595072 | 133.00 | 59   | 174.00 | 513024 |
| 62.00 | 31744  | 96.00  | 39280  | 134.00 | 174  | 175.00 | 39400  |
| 63.00 | 23720  | 97.00  | 1015   | 135.00 | 1231 | 176.00 | 496064 |
| 64.00 | 2192   | 103.00 | 364    | 136.00 | 250  | 177.00 | 32496  |
| 65.00 | 73     | 104.00 | 3203   | 137.00 | 1274 | 178.00 | 871    |
| 67.00 | 1385   | 105.00 | 990    | 139.00 | 215  | 191.00 | 109    |
| 68.00 | 67480  | 106.00 | 2971   | 140.00 | 686  | 207.00 | 35     |
| 69.00 | 66696  | 107.00 | 624    | 141.00 | 7860 | 253.00 | 123    |

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-01A.D

Injection Date: 04-Dec-2018 18:02:30

Instrument ID: CHC.i

Operator ID: ert

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 200.0 mL

Dil. Factor: 1.0000

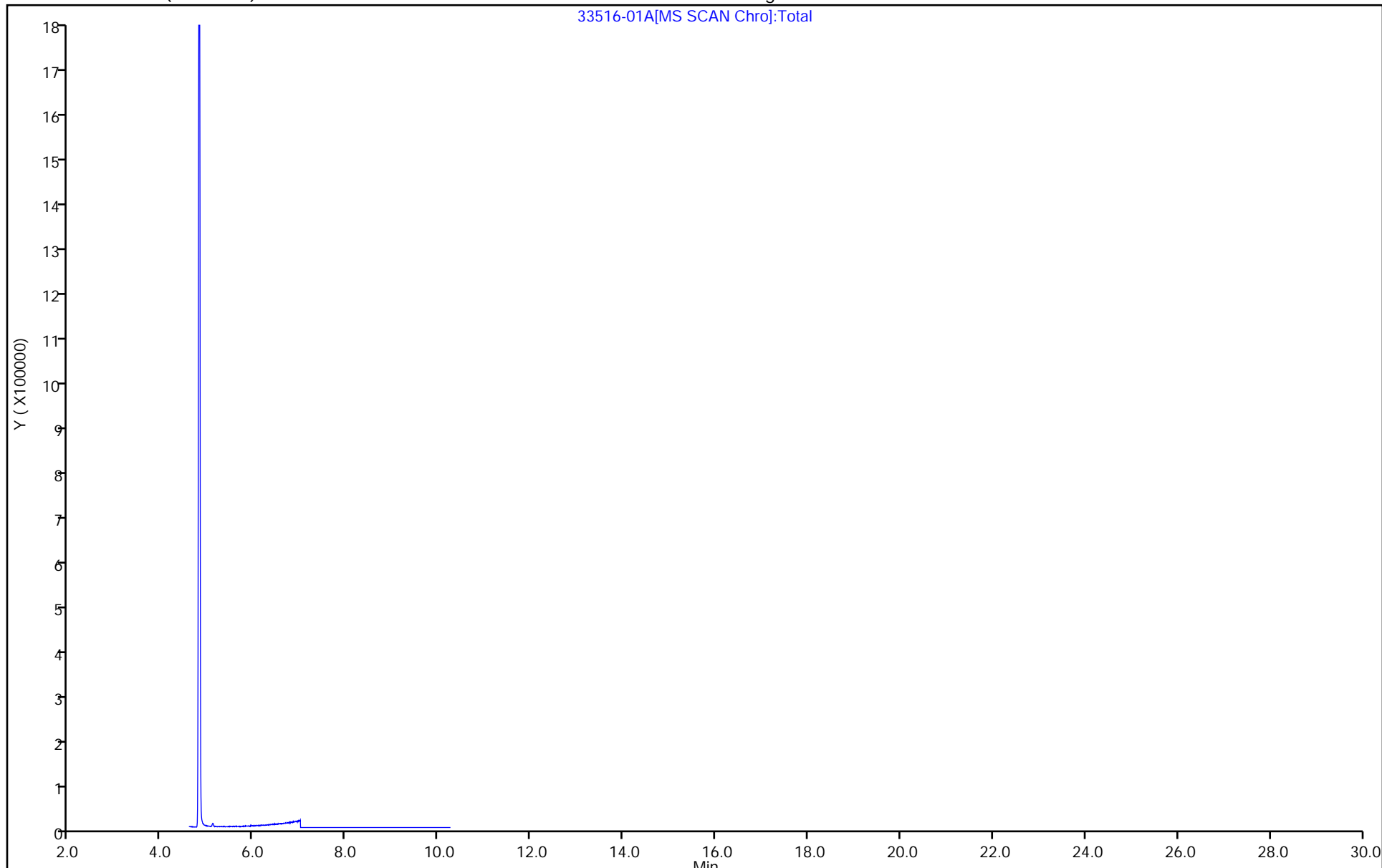
ALS Bottle#: 1

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D  
 Lims ID: bfb  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 07-Dec-2018 11:07:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033574-001  
 Misc. Info.: bfb  
 Operator ID: ggg Instrument ID: CHC.i  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 10-Dec-2018 17:27:53 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0324

First Level Reviewer: phamvu Date: 10-Dec-2018 17:23:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|

|                          |     |  |        |  |  |  |      |    |  |
|--------------------------|-----|--|--------|--|--|--|------|----|--|
| 9 BFB                    |     |  |        |  |  |  |      |    |  |
| * 40 Chlorobromomethane  | 128 |  | 10.225 |  |  |  | 10.0 | ND |  |
| * 50 1,4-Difluorobenzene | 114 |  | 12.205 |  |  |  | 10.0 | ND |  |
| * 74 Chlorobenzene-d5    | 117 |  | 18.241 |  |  |  | 10.0 | ND |  |

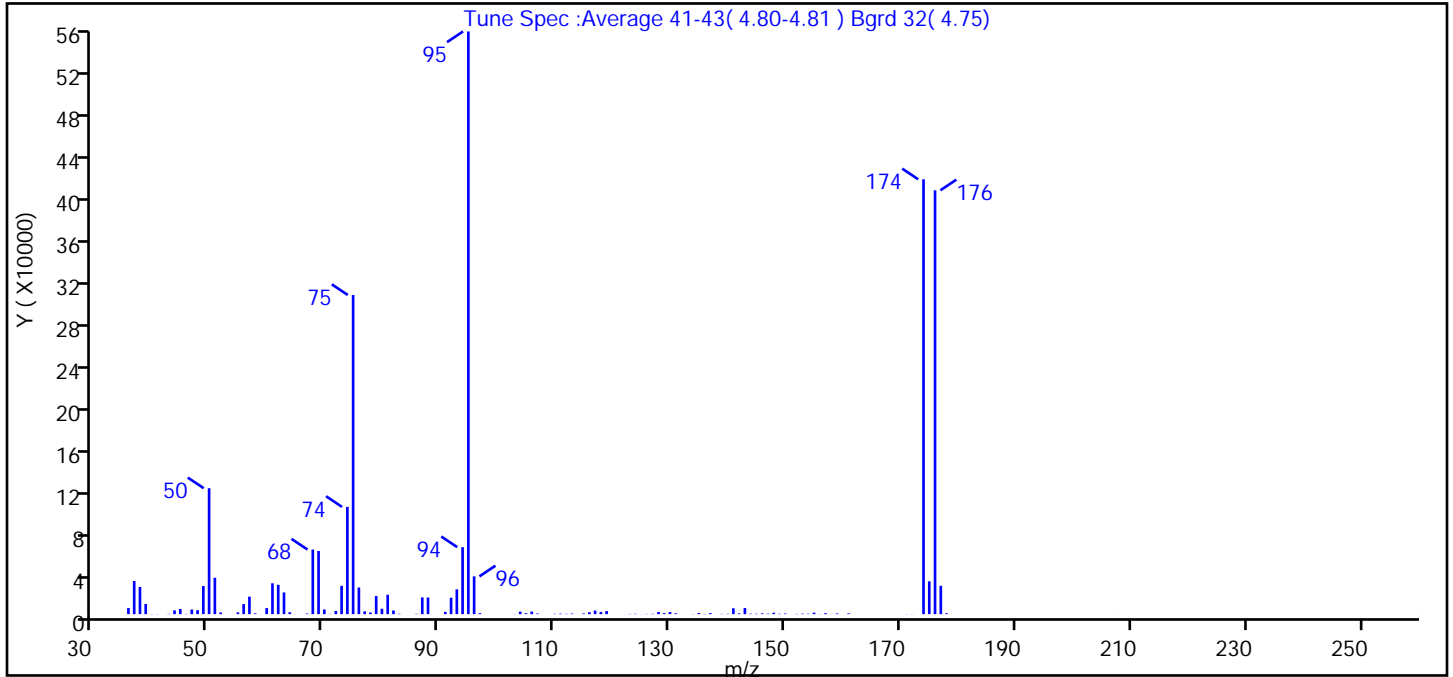
Reagents:

ATTO15CISs\_00010 Amount Added: 20.00 Units: mL Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D  
 Injection Date: 07-Dec-2018 11:07:30 Instrument ID: CHC.i  
 Lims ID: bfb  
 Client ID:  
 Operator ID: ggg ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
 Tune Method: BFB Method TO-15

9 BFB



| m/z | Ion Abundance Criteria                    | % Relative Abundance |
|-----|---|----------------------|
| 95  | Base Peak, 100 Percent Relative Abundance | 100.0                |
| 50  | 8.0 to 40.0 Percent of m/e 95             | 21.6                 |
| 75  | 30.0 to 66.0 Percent of m/e 95            | 54.8                 |
| 96  | 5.0 to 9.0 Percent of m/e 95              | 6.5                  |
| 173 | Less than 2.0 Percent of m/e 174          | 0.0 (0.0)            |
| 174 | 50.0 to 120.0 Percent of m/e 95           | 74.6                 |
| 175 | 4.0 to 9.0 Percent of m/e 174             | 5.6 (7.6)            |
| 176 | 93.0 to 101.0 Percent of m/e 174          | 72.7 (97.5)          |
| 177 | 5.0 to 9.0 Percent of m/e 176             | 4.9 (6.7)            |



Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D\TO15\_MasterMethod\_(v1)\_CHC.  
 Injection Date: 07-Dec-2018 11:07:30  
 Spectrum: Tune Spec :Average 41-43( 4.80-4.81 ) Bgrd 32( 4.75)  
 Base Peak: 95.00  
 Minimum % Base Peak: 0  
 Number of Points: 112

| m/z   | Y      | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|-------|--------|--------|--------|--------|------|--------|--------|
| 36.00 | 5799   | 68.00  | 61456  | 105.00 | 859  | 141.00 | 5598   |
| 37.00 | 31552  | 69.00  | 60088  | 106.00 | 2470 | 142.00 | 759    |
| 38.00 | 25888  | 70.00  | 4419   | 107.00 | 590  | 143.00 | 5883   |
| 39.00 | 9676   | 71.00  | 241    | 110.00 | 379  | 144.00 | 449    |
| 40.00 | 179    | 72.00  | 3037   | 111.00 | 488  | 145.00 | 394    |
| 41.00 | 145    | 73.00  | 26920  | 112.00 | 315  | 146.00 | 755    |
| 43.00 | 278    | 74.00  | 102024 | 113.00 | 556  | 147.00 | 424    |
| 44.00 | 3605   | 75.00  | 303616 | 115.00 | 668  | 148.00 | 1387   |
| 45.00 | 4954   | 76.00  | 25360  | 116.00 | 1849 | 149.00 | 380    |
| 46.00 | 212    | 77.00  | 2631   | 117.00 | 3433 | 150.00 | 570    |
| 47.00 | 4433   | 78.00  | 1554   | 118.00 | 2133 | 152.00 | 241    |
| 48.00 | 3754   | 79.00  | 17280  | 119.00 | 2941 | 153.00 | 465    |
| 49.00 | 26760  | 80.00  | 5125   | 122.00 | 51   | 154.00 | 390    |
| 50.00 | 119776 | 81.00  | 18448  | 123.00 | 220  | 155.00 | 1443   |
| 51.00 | 34656  | 82.00  | 3506   | 124.00 | 339  | 156.00 | 142    |
| 52.00 | 1615   | 83.00  | 381    | 125.00 | 50   | 157.00 | 957    |
| 55.00 | 1694   | 86.00  | 306    | 126.00 | 218  | 158.00 | 76     |
| 56.00 | 9574   | 87.00  | 15908  | 127.00 | 307  | 159.00 | 660    |
| 57.00 | 16680  | 88.00  | 15854  | 128.00 | 2063 | 161.00 | 726    |
| 58.00 | 771    | 91.00  | 2107   | 129.00 | 973  | 171.00 | 129    |
| 59.00 | 67     | 92.00  | 15613  | 130.00 | 2008 | 172.00 | 96     |
| 60.00 | 5787   | 93.00  | 23616  | 131.00 | 788  | 174.00 | 413696 |
| 61.00 | 29368  | 94.00  | 63720  | 134.00 | 120  | 175.00 | 31256  |
| 62.00 | 27912  | 95.00  | 554304 | 135.00 | 1059 | 176.00 | 403200 |
| 63.00 | 20648  | 96.00  | 35944  | 136.00 | 159  | 177.00 | 27000  |
| 64.00 | 1792   | 97.00  | 941    | 137.00 | 989  | 178.00 | 825    |
| 65.00 | 59     | 103.00 | 177    | 139.00 | 233  | 208.00 | 64     |
| 67.00 | 601    | 104.00 | 2402   | 140.00 | 323  | 260.00 | 58     |

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-01.D

Injection Date: 07-Dec-2018 11:07:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 200.0 mL

Dil. Factor: 1.0000

ALS Bottle#: 1

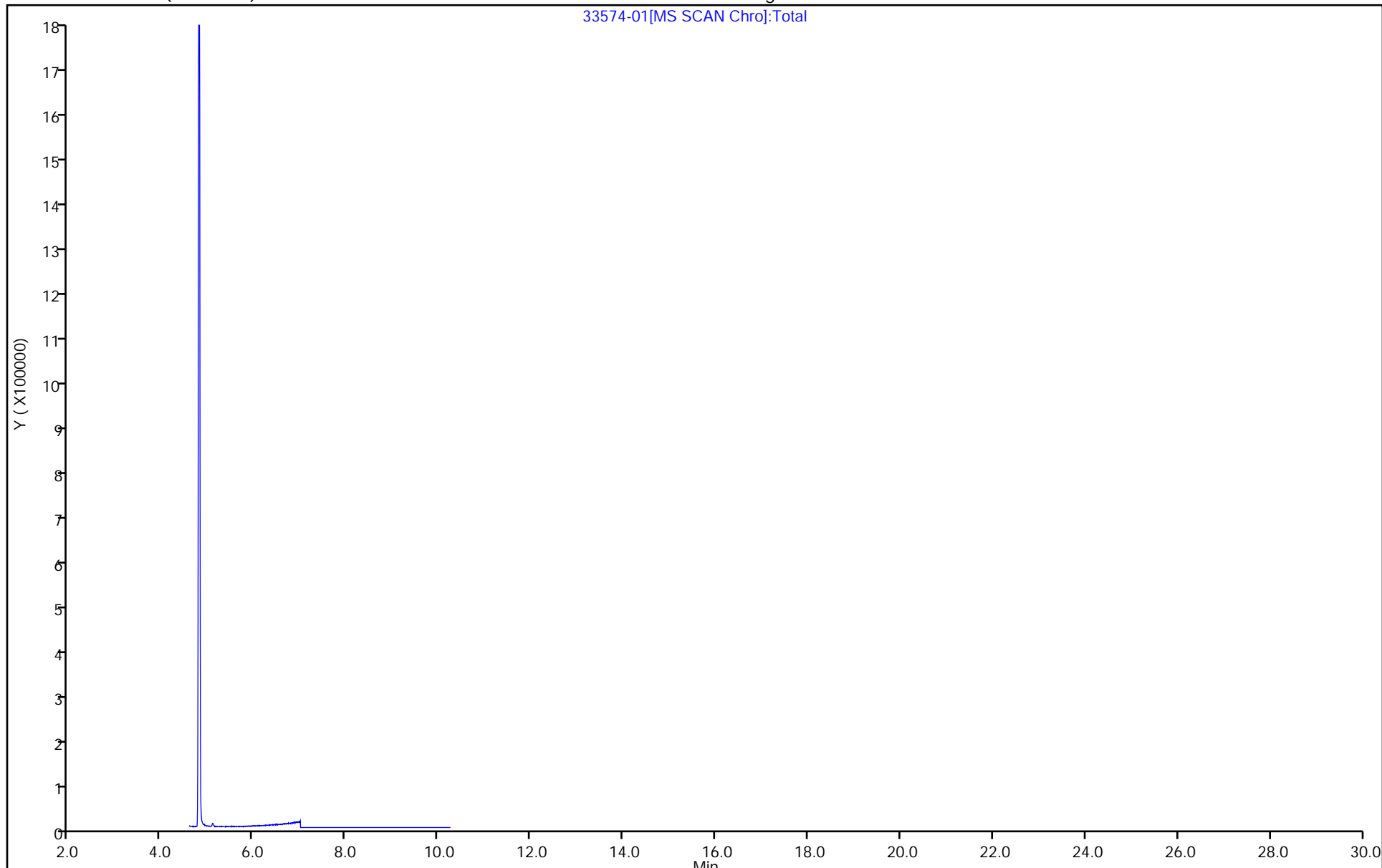
Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value

33574-01[MS SCAN Chro]:Total



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D  
 Lims ID: bfb  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 27-Nov-2018 17:52:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033385-001  
 Misc. Info.: bfb  
 Operator ID: vtp Instrument ID: CHG.i  
 Method: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Nov-2018 12:18:25 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0306

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|

|                          |     |  |        |  |  |  |      |    |  |
|--------------------------|-----|--|--------|--|--|--|------|----|--|
| 9 BFB                    |     |  |        |  |  |  |      |    |  |
| * 40 Chlorobromomethane  | 128 |  | 9.162  |  |  |  | 10.0 | ND |  |
| * 50 1,4-Difluorobenzene | 114 |  | 11.024 |  |  |  | 10.0 | ND |  |
| * 74 Chlorobenzene-d5    | 117 |  | 16.962 |  |  |  | 10.0 | ND |  |

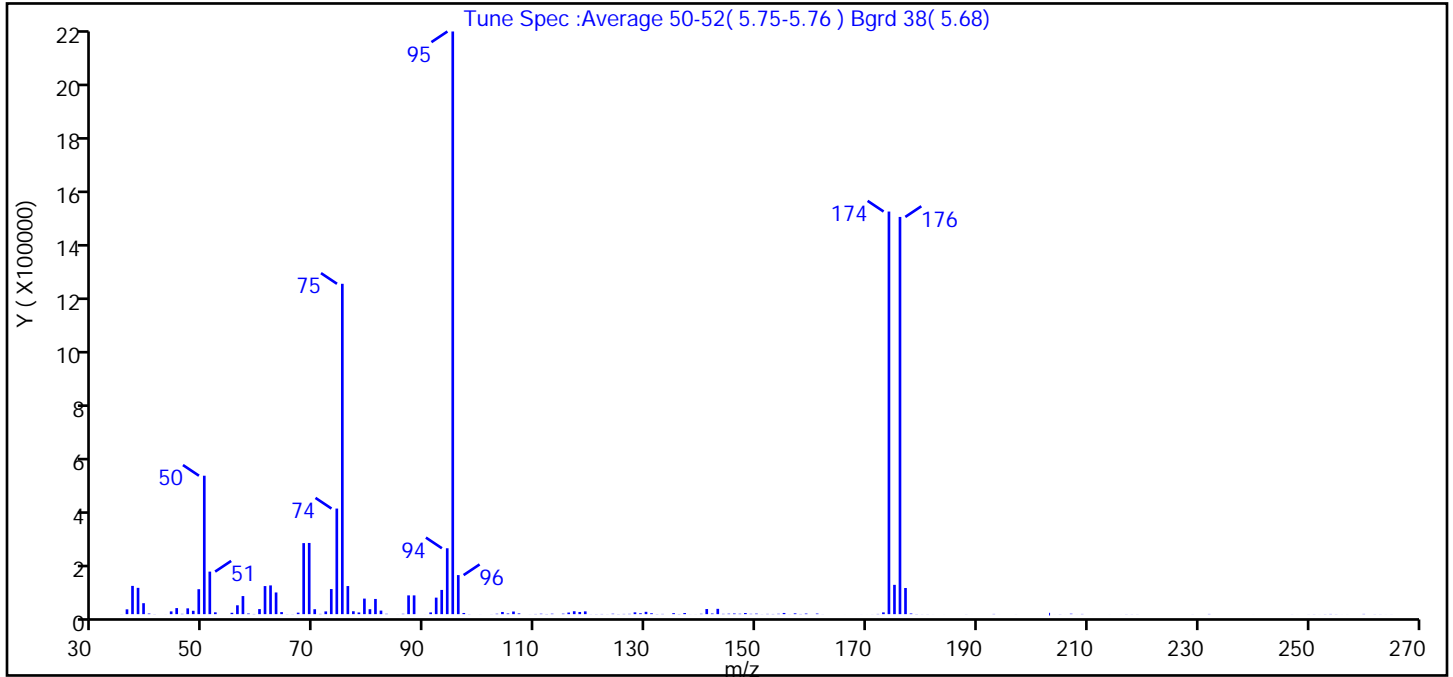
Reagents:

ATTO15GIS\_00015 Amount Added: 20.00 Units: mL Run Reagent

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D  
 Injection Date: 27-Nov-2018 17:52:30 Instrument ID: CHG.i  
 Lims ID: bfb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Tune Method: BFB Method TO-15

9 BFB



| m/z | Ion Abundance Criteria                    | % Relative Abundance |
|-----|---|----------------------|
| 95  | Base Peak, 100 Percent Relative Abundance | 100.0                |
| 50  | 8.0 to 40.0 Percent of m/e 95             | 23.8                 |
| 75  | 30.0 to 66.0 Percent of m/e 95            | 56.7                 |
| 96  | 5.0 to 9.0 Percent of m/e 95              | 6.7                  |
| 173 | Less than 2.0 Percent of m/e 174          | 0.3 (0.4)            |
| 174 | 50.0 to 120.0 Percent of m/e 95           | 69.1                 |
| 175 | 4.0 to 9.0 Percent of m/e 174             | 5.0 (7.3)            |
| 176 | 93.0 to 101.0 Percent of m/e 174          | 68.2 (98.7)          |
| 177 | 5.0 to 9.0 Percent of m/e 176             | 4.5 (6.6)            |

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D\TO15\_MasterMe  
Injection Date: 27-Nov-2018 17:52:30  
Spectrum: Tune Spec :Average 50-52( 5.75-5.76 ) Bgrd 38( 5.68)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 174

| m/z   | Y      | m/z    | Y       | m/z    | Y     | m/z    | Y    |
|-------|--------|--------|---------|--------|-------|--------|------|
| 35.00 | 201    | 82.00  | 13216   | 132.00 | 474   | 180.00 | 222  |
| 36.00 | 17888  | 83.00  | 1250    | 133.00 | 838   | 181.00 | 260  |
| 37.00 | 104896 | 85.00  | 107     | 135.00 | 3674  | 182.00 | 96   |
| 38.00 | 97648  | 86.00  | 1252    | 136.00 | 596   | 184.00 | 71   |
| 39.00 | 40680  | 87.00  | 69680   | 137.00 | 4153  | 188.00 | 216  |
| 40.00 | 2253   | 88.00  | 69664   | 138.00 | 176   | 189.00 | 41   |
| 41.00 | 351    | 90.00  | 103     | 139.00 | 162   | 191.00 | 22   |
| 43.00 | 124    | 91.00  | 6405    | 140.00 | 1326  | 193.00 | 787  |
| 44.00 | 10205  | 92.00  | 61320   | 141.00 | 18976 | 194.00 | 48   |
| 45.00 | 22480  | 93.00  | 89936   | 142.00 | 2306  | 197.00 | 144  |
| 46.00 | 1055   | 94.00  | 244672  | 143.00 | 19728 | 202.00 | 63   |
| 47.00 | 21520  | 95.00  | 2163712 | 144.00 | 1071  | 203.00 | 5    |
| 48.00 | 12455  | 96.00  | 145024  | 145.00 | 1714  | 204.00 | 90   |
| 49.00 | 92624  | 97.00  | 4356    | 146.00 | 2388  | 205.00 | 370  |
| 50.00 | 514048 | 98.00  | 394     | 147.00 | 1443  | 206.00 | 52   |
| 51.00 | 157952 | 100.00 | 147     | 148.00 | 4248  | 207.00 | 1554 |
| 52.00 | 6699   | 102.00 | 216     | 149.00 | 1170  | 208.00 | 93   |
| 55.00 | 5027   | 103.00 | 1442    | 150.00 | 1944  | 209.00 | 759  |
| 56.00 | 32864  | 104.00 | 8069    | 151.00 | 267   | 211.00 | 50   |
| 57.00 | 67120  | 105.00 | 2483    | 152.00 | 957   | 214.00 | 85   |
| 58.00 | 2373   | 106.00 | 9724    | 153.00 | 657   | 216.00 | 62   |
| 59.00 | 671    | 107.00 | 2663    | 154.00 | 1363  | 217.00 | 317  |
| 60.00 | 18776  | 109.00 | 165     | 155.00 | 4390  | 218.00 | 263  |
| 61.00 | 104256 | 110.00 | 677     | 156.00 | 210   | 219.00 | 199  |
| 62.00 | 106704 | 111.00 | 1547    | 157.00 | 2981  | 229.00 | 171  |
| 63.00 | 80512  | 112.00 | 568     | 158.00 | 639   | 232.00 | 735  |
| 64.00 | 7603   | 113.00 | 1619    | 159.00 | 2194  | 240.00 | 58   |
| 65.00 | 295    | 115.00 | 1721    | 160.00 | 76    | 247.00 | 181  |
| 66.00 | 277    | 116.00 | 5987    | 161.00 | 2234  | 248.00 | 51   |
| 67.00 | 5538   | 117.00 | 10749   | 162.00 | 204   | 250.00 | 171  |
| 68.00 | 263744 | 118.00 | 8029    | 163.00 | 16    | 251.00 | 295  |
| 69.00 | 264384 | 119.00 | 10270   | 166.00 | 48    | 252.00 | 104  |
| 70.00 | 18304  | 120.00 | 262     | 168.00 | 56    | 253.00 | 353  |

Data File:

\\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D\TO15\_MasterMe

Injection Date:

27-Nov-2018 17:52:30

Spectrum:

Tune Spec :Average 50-52( 5.75-5.76 ) Bgrd 38( 5.68)

Base Peak:

95.00

Minimum % Base Peak: 0

Number of Points:

174

| m/z   | Y       | m/z    | Y    | m/z    | Y       | m/z    | Y   |
|-------|---------|--------|------|--------|---------|--------|-----|
| 71.00 | 901     | 121.00 | 417  | 169.00 | 107     | 254.00 | 710 |
| 72.00 | 10172   | 122.00 | 648  | 170.00 | 51      | 255.00 | 313 |
| 73.00 | 93224   | 123.00 | 230  | 171.00 | 164     | 256.00 | 84  |
| 74.00 | 392064  | 124.00 | 1515 | 172.00 | 796     | 257.00 | 102 |
| 75.00 | 1226752 | 125.00 | 434  | 173.00 | 6446    | 260.00 | 828 |
| 76.00 | 104360  | 126.00 | 815  | 174.00 | 1495040 | 262.00 | 300 |
| 77.00 | 10734   | 127.00 | 1051 | 175.00 | 108800  | 263.00 | 216 |
| 78.00 | 6217    | 128.00 | 6677 | 176.00 | 1475072 | 264.00 | 104 |
| 79.00 | 57736   | 129.00 | 3238 | 177.00 | 97080   | 265.00 | 155 |
| 80.00 | 18376   | 130.00 | 8654 | 178.00 | 2463    |        |     |
| 81.00 | 56408   | 131.00 | 3292 | 179.00 | 479     |        |     |

TestAmerica Burlington

Data File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-001.D

Injection Date: 27-Nov-2018 17:52:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 200.0 mL

Dil. Factor: 1.0000

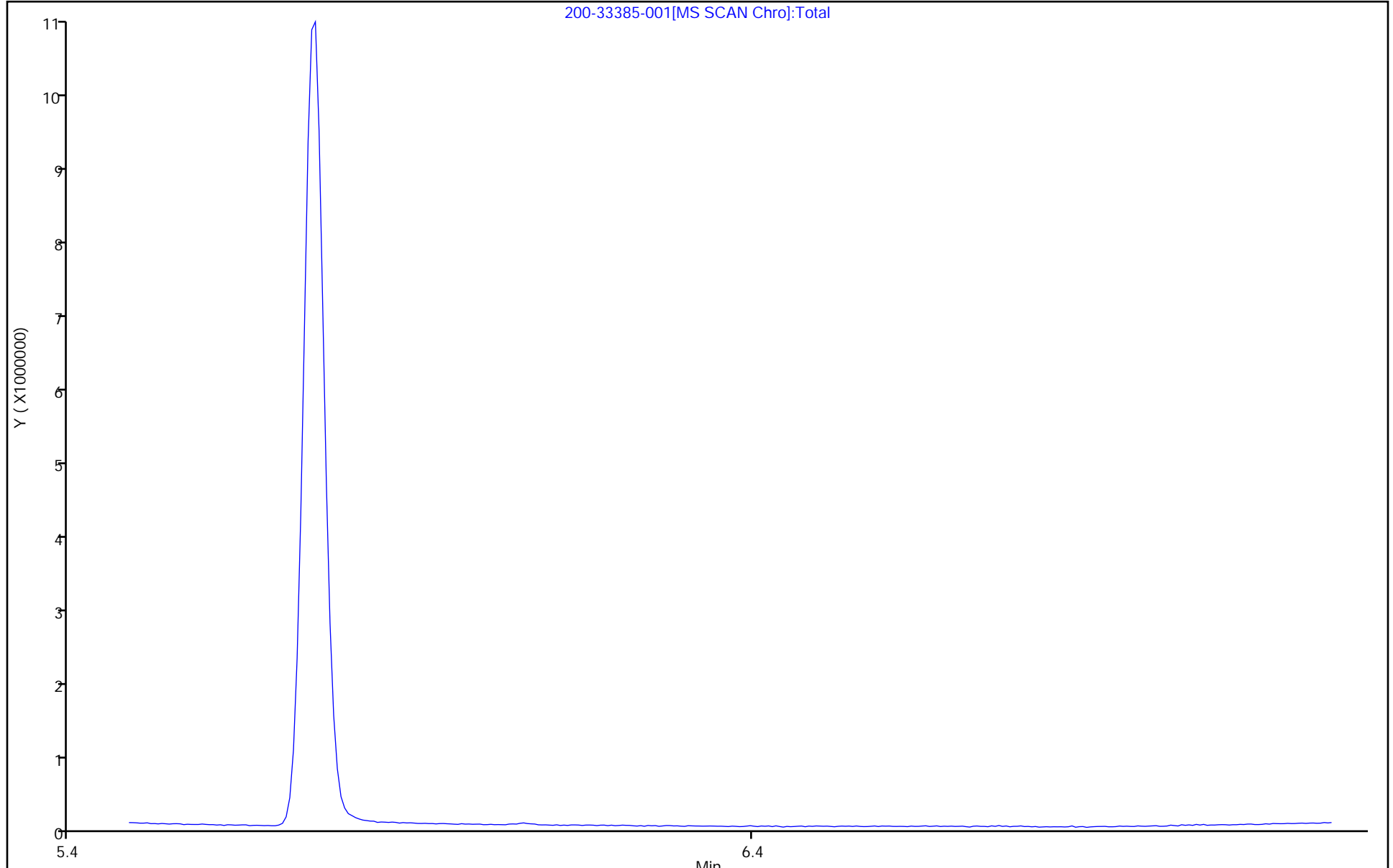
ALS Bottle#: 1

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D  
 Lims ID: bfb  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 05-Dec-2018 14:11:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-001  
 Misc. Info.: bfb  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 12:51:45 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa Date: 06-Dec-2018 12:51:45

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|

|                          |     |  |        |  |  |  |      |    |  |
|--------------------------|-----|--|--------|--|--|--|------|----|--|
| 9 BFB                    |     |  |        |  |  |  |      |    |  |
| * 40 Chlorobromomethane  | 128 |  | 9.152  |  |  |  | 10.0 | ND |  |
| * 50 1,4-Difluorobenzene | 114 |  | 11.019 |  |  |  | 10.0 | ND |  |
| * 74 Chlorobenzene-d5    | 117 |  | 16.957 |  |  |  | 10.0 | ND |  |

Reagents:

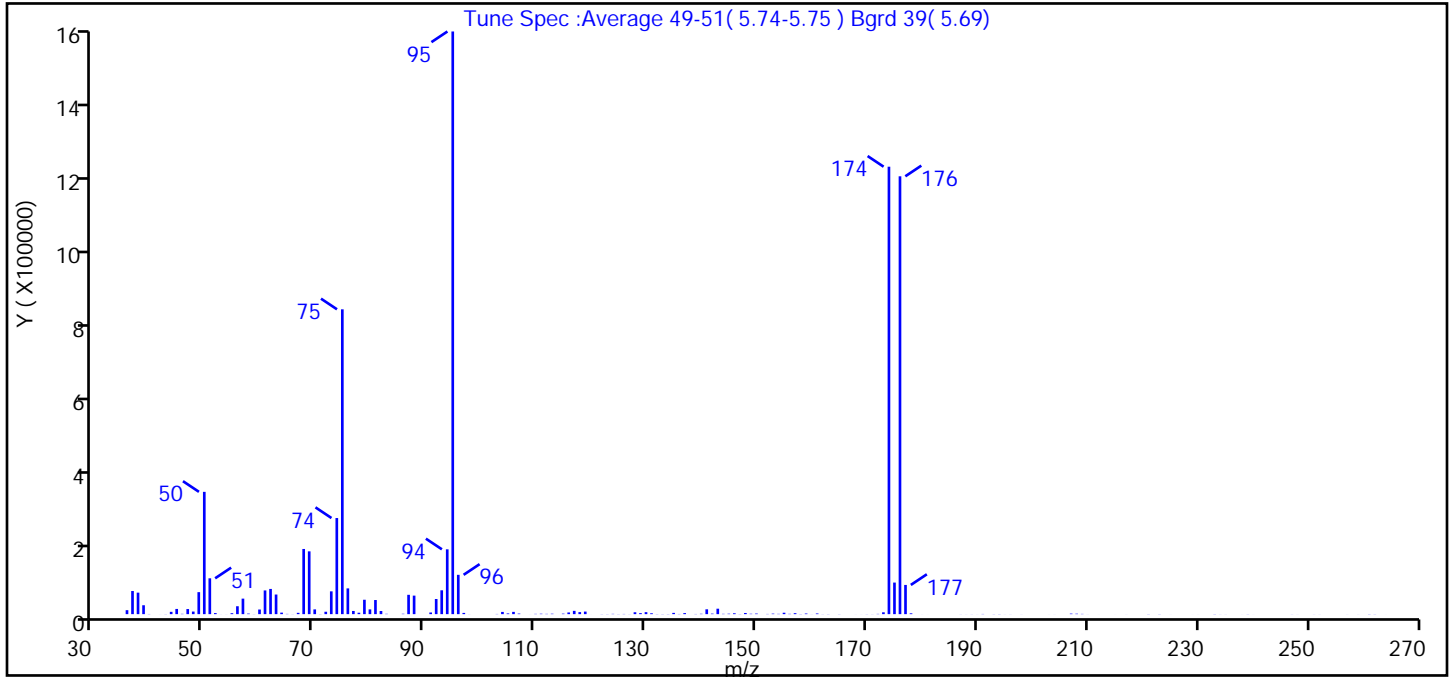
ATTO15GIS\_00015 Amount Added: 20.00 Units: mL Run Reagent



TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D  
 Injection Date: 05-Dec-2018 14:11:30 Instrument ID: CHG.i  
 Lims ID: bfb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Tune Method: BFB Method TO-15

9 BFB



| m/z | Ion Abundance Criteria                    | % Relative Abundance |
|-----|---|----------------------|
| 95  | Base Peak, 100 Percent Relative Abundance | 100.0                |
| 50  | 8.0 to 40.0 Percent of m/e 95             | 21.0                 |
| 75  | 30.0 to 66.0 Percent of m/e 95            | 52.3                 |
| 96  | 5.0 to 9.0 Percent of m/e 95              | 6.7                  |
| 173 | Less than 2.0 Percent of m/e 174          | 0.3 (0.4)            |
| 174 | 50.0 to 120.0 Percent of m/e 95           | 76.8                 |
| 175 | 4.0 to 9.0 Percent of m/e 174             | 5.4 (7.1)            |
| 176 | 93.0 to 101.0 Percent of m/e 174          | 75.1 (97.9)          |
| 177 | 5.0 to 9.0 Percent of m/e 176             | 5.0 (6.7)            |

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D\TO15\_MasterMethod\_(v1)\_  
Injection Date: 05-Dec-2018 14:11:30  
Spectrum: Tune Spec :Average 49-51( 5.74-5.75 ) Bgrd 39( 5.69)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 168

| m/z   | Y      | m/z    | Y       | m/z    | Y     | m/z    | Y    |
|-------|--------|--------|---------|--------|-------|--------|------|
| 36.00 | 10798  | 79.00  | 39192   | 132.00 | 358   | 178.00 | 2221 |
| 37.00 | 62944  | 80.00  | 12941   | 133.00 | 356   | 180.00 | 83   |
| 38.00 | 58520  | 81.00  | 38440   | 134.00 | 386   | 181.00 | 44   |
| 39.00 | 24216  | 82.00  | 8549    | 135.00 | 3459  | 187.00 | 170  |
| 40.00 | 465    | 83.00  | 862     | 136.00 | 478   | 188.00 | 120  |
| 42.00 | 85     | 86.00  | 1019    | 137.00 | 2849  | 189.00 | 192  |
| 43.00 | 280    | 87.00  | 52624   | 139.00 | 472   | 190.00 | 104  |
| 44.00 | 6277   | 88.00  | 50416   | 140.00 | 979   | 191.00 | 529  |
| 45.00 | 14158  | 91.00  | 4493    | 141.00 | 13165 | 193.00 | 290  |
| 46.00 | 813    | 92.00  | 41216   | 142.00 | 1422  | 194.00 | 340  |
| 47.00 | 13859  | 93.00  | 64912   | 143.00 | 14805 | 195.00 | 112  |
| 48.00 | 7045   | 94.00  | 176448  | 144.00 | 817   | 196.00 | 154  |
| 49.00 | 59864  | 95.00  | 1586176 | 145.00 | 1200  | 198.00 | 123  |
| 50.00 | 332928 | 96.00  | 107040  | 146.00 | 2361  | 203.00 | 76   |
| 51.00 | 97576  | 97.00  | 3388    | 147.00 | 338   | 204.00 | 90   |
| 52.00 | 2886   | 98.00  | 137     | 148.00 | 3155  | 207.00 | 1450 |
| 53.00 | 111    | 103.00 | 529     | 149.00 | 1044  | 208.00 | 1164 |
| 54.00 | 118    | 104.00 | 6041    | 150.00 | 1570  | 209.00 | 677  |
| 55.00 | 2548   | 105.00 | 1939    | 151.00 | 14    | 210.00 | 108  |
| 56.00 | 21536  | 106.00 | 6188    | 152.00 | 561   | 212.00 | 53   |
| 57.00 | 42224  | 107.00 | 1506    | 153.00 | 1398  | 215.00 | 50   |
| 58.00 | 1512   | 109.00 | 70      | 154.00 | 776   | 217.00 | 95   |
| 59.00 | 236    | 110.00 | 750     | 155.00 | 3852  | 221.00 | 335  |
| 60.00 | 12614  | 111.00 | 1151    | 156.00 | 804   | 223.00 | 322  |
| 61.00 | 64536  | 112.00 | 748     | 157.00 | 2612  | 225.00 | 70   |
| 62.00 | 68624  | 113.00 | 1153    | 158.00 | 393   | 229.00 | 56   |
| 63.00 | 53408  | 115.00 | 1353    | 159.00 | 1685  | 230.00 | 64   |
| 64.00 | 4156   | 116.00 | 4592    | 160.00 | 119   | 233.00 | 384  |
| 65.00 | 630    | 117.00 | 8950    | 161.00 | 1813  | 234.00 | 137  |
| 66.00 | 193    | 118.00 | 5525    | 162.00 | 223   | 235.00 | 133  |
| 67.00 | 3558   | 119.00 | 6971    | 163.00 | 311   | 238.00 | 75   |
| 68.00 | 177408 | 120.00 | 43      | 165.00 | 281   | 239.00 | 267  |
| 69.00 | 170944 | 122.00 | 290     | 168.00 | 86    | 240.00 | 62   |

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D\TO15\_MasterMethod\_(v1)\_

Injection Date: 05-Dec-2018 14:11:30

Spectrum: Tune Spec :Average 49-51( 5.74-5.75 ) Bgrd 39( 5.69)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 168

| m/z   | Y      | m/z    | Y    | m/z    | Y       | m/z    | Y   |
|-------|--------|--------|------|--------|---------|--------|-----|
| 70.00 | 12946  | 123.00 | 309  | 169.00 | 79      | 247.00 | 191 |
| 71.00 | 334    | 124.00 | 760  | 170.00 | 260     | 248.00 | 101 |
| 72.00 | 6545   | 125.00 | 310  | 171.00 | 192     | 251.00 | 138 |
| 73.00 | 62056  | 126.00 | 541  | 172.00 | 696     | 252.00 | 115 |
| 74.00 | 261632 | 127.00 | 204  | 173.00 | 5001    | 257.00 | 111 |
| 75.00 | 829824 | 128.00 | 5137 | 174.00 | 1218048 | 259.00 | 111 |
| 76.00 | 70112  | 129.00 | 2741 | 175.00 | 85960   | 261.00 | 397 |
| 77.00 | 8618   | 130.00 | 5428 | 176.00 | 1191936 | 262.00 | 292 |
| 78.00 | 3863   | 131.00 | 2389 | 177.00 | 79504   | 264.00 | 50  |

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-001.D

Injection Date: 05-Dec-2018 14:11:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 200.0 mL

Dil. Factor: 1.0000

ALS Bottle#: 1

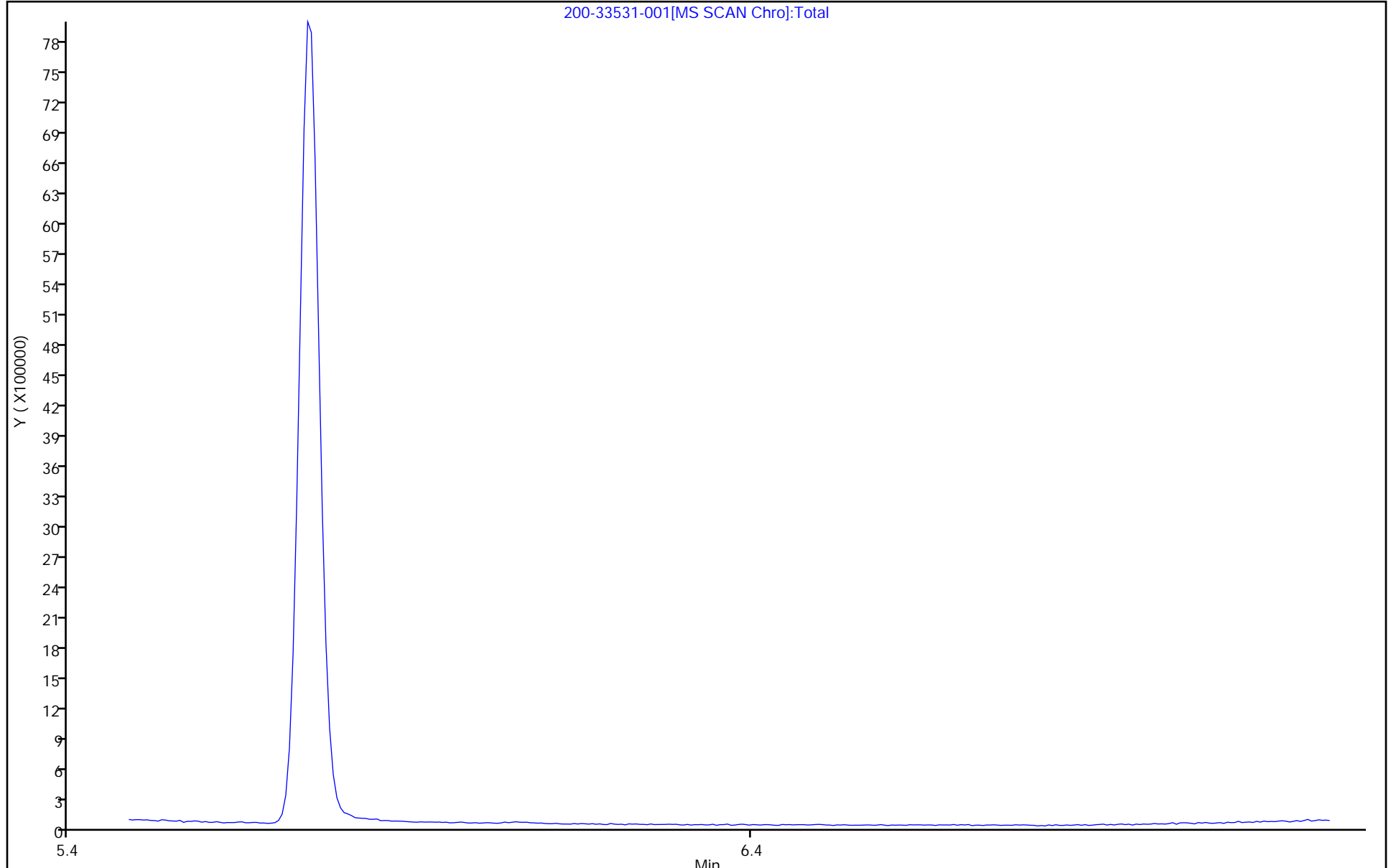
Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

200-33531-001[MS SCAN Chrom:Total



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D  
 Lims ID: bfb  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 06-Dec-2018 14:19:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-001  
 Misc. Info.: bfb  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 15:04:07 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0310

First Level Reviewer: puangmaleek Date: 07-Dec-2018 15:04:06

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|

|                          |     |  |        |  |  |  |      |    |  |
|--------------------------|-----|--|--------|--|--|--|------|----|--|
| 9 BFB                    |     |  |        |  |  |  |      |    |  |
| * 40 Chlorobromomethane  | 128 |  | 9.151  |  |  |  | 10.0 | ND |  |
| * 50 1,4-Difluorobenzene | 114 |  | 11.019 |  |  |  | 10.0 | ND |  |
| * 74 Chlorobenzene-d5    | 117 |  | 16.957 |  |  |  | 10.0 | ND |  |

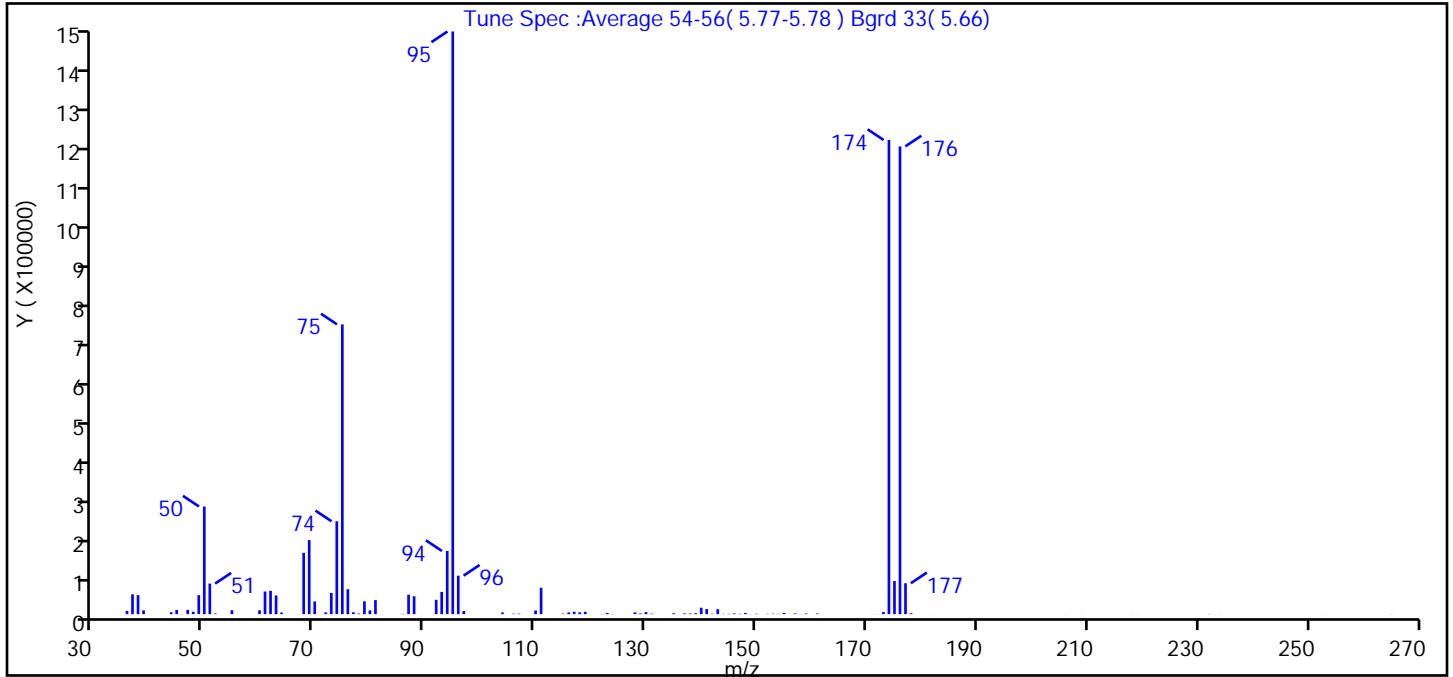
Reagents:

ATTO15GIS\_00015 Amount Added: 20.00 Units: mL Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D  
 Injection Date: 06-Dec-2018 14:19:30 Instrument ID: CHG.i  
 Lims ID: bfb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 200.0 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Tune Method: BFB Method TO-15

9 BFB



| m/z | Ion Abundance Criteria                    | % Relative Abundance |
|-----|---|----------------------|
| 95  | Base Peak, 100 Percent Relative Abundance | 100.0                |
| 50  | 8.0 to 40.0 Percent of m/e 95             | 18.5                 |
| 75  | 30.0 to 66.0 Percent of m/e 95            | 49.7                 |
| 96  | 5.0 to 9.0 Percent of m/e 95              | 6.6                  |
| 173 | Less than 2.0 Percent of m/e 174          | 0.4 (0.4)            |
| 174 | 50.0 to 120.0 Percent of m/e 95           | 81.4                 |
| 175 | 4.0 to 9.0 Percent of m/e 174             | 5.7 (7.0)            |
| 176 | 93.0 to 101.0 Percent of m/e 174          | 80.3 (98.6)          |
| 177 | 5.0 to 9.0 Percent of m/e 176             | 5.3 (6.6)            |

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D\TO15\_MasterMethod\_(v1)\_  
Injection Date: 06-Dec-2018 14:19:30  
Spectrum: Tune Spec :Average 54-56( 5.77-5.78 ) Bgrd 33( 5.66)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 120

| m/z   | Y      | m/z    | Y       | m/z    | Y       | m/z    | Y       |
|-------|--------|--------|---------|--------|---------|--------|---------|
| 36.00 | 8079   | 80.00  | 9265    | 136.00 | 100     | 176.00 | 1158656 |
| 37.00 | 49272  | 81.00  | 34712   | 137.00 | 1830    | 177.00 | 76576   |
| 38.00 | 47152  | 86.00  | 732     | 138.00 | 1548    | 178.00 | 2293    |
| 39.00 | 9296   | 87.00  | 48152   | 139.00 | 2417    | 181.00 | 49      |
| 44.00 | 4624   | 88.00  | 44336   | 140.00 | 15897   | 182.00 | 118     |
| 45.00 | 10280  | 90.00  | 19      | 141.00 | 12643   | 184.00 | 57      |
| 46.00 | 346    | 92.00  | 35464   | 142.00 | 1017    | 188.00 | 101     |
| 47.00 | 10677  | 93.00  | 55152   | 143.00 | 12239   | 190.00 | 63      |
| 48.00 | 5904   | 94.00  | 156480  | 144.00 | 621     | 195.00 | 58      |
| 49.00 | 47184  | 95.00  | 1443328 | 145.00 | 946     | 201.00 | 64      |
| 50.00 | 266624 | 96.00  | 95344   | 146.00 | 1733    | 206.00 | 181     |
| 51.00 | 75704  | 97.00  | 7693    | 147.00 | 834     | 209.00 | 174     |
| 52.00 | 1595   | 104.00 | 4136    | 148.00 | 2958    | 218.00 | 300     |
| 55.00 | 9642   | 106.00 | 1077    | 149.00 | 157     | 219.00 | 149     |
| 60.00 | 9457   | 107.00 | 1253    | 150.00 | 972     | 222.00 | 63      |
| 61.00 | 56088  | 110.00 | 9071    | 152.00 | 813     | 225.00 | 73      |
| 62.00 | 57808  | 111.00 | 65272   | 153.00 | 1045    | 226.00 | 69      |
| 63.00 | 46408  | 115.00 | 1241    | 154.00 | 635     | 227.00 | 52      |
| 64.00 | 3938   | 116.00 | 4227    | 155.00 | 3076    | 231.00 | 58      |
| 68.00 | 151936 | 117.00 | 5927    | 157.00 | 1697    | 232.00 | 432     |
| 69.00 | 183488 | 118.00 | 4413    | 158.00 | 293     | 233.00 | 188     |
| 70.00 | 31536  | 119.00 | 5810    | 159.00 | 1440    | 234.00 | 195     |
| 72.00 | 4295   | 122.00 | 401     | 161.00 | 1639    | 237.00 | 64      |
| 73.00 | 52376  | 123.00 | 2934    | 162.00 | 47      | 241.00 | 108     |
| 74.00 | 230080 | 124.00 | 446     | 170.00 | 9       | 248.00 | 60      |
| 75.00 | 717760 | 128.00 | 4441    | 171.00 | 319     | 253.00 | 259     |
| 76.00 | 61624  | 129.00 | 1696    | 172.00 | 214     | 255.00 | 36      |
| 77.00 | 4552   | 130.00 | 5091    | 173.00 | 5265    | 258.00 | 90      |
| 78.00 | 1538   | 131.00 | 1156    | 174.00 | 1174528 | 261.00 | 34      |
| 79.00 | 31768  | 135.00 | 2275    | 175.00 | 82056   | 265.00 | 272     |

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-001.D

Injection Date: 06-Dec-2018 14:19:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 200.0 mL

Dil. Factor: 1.0000

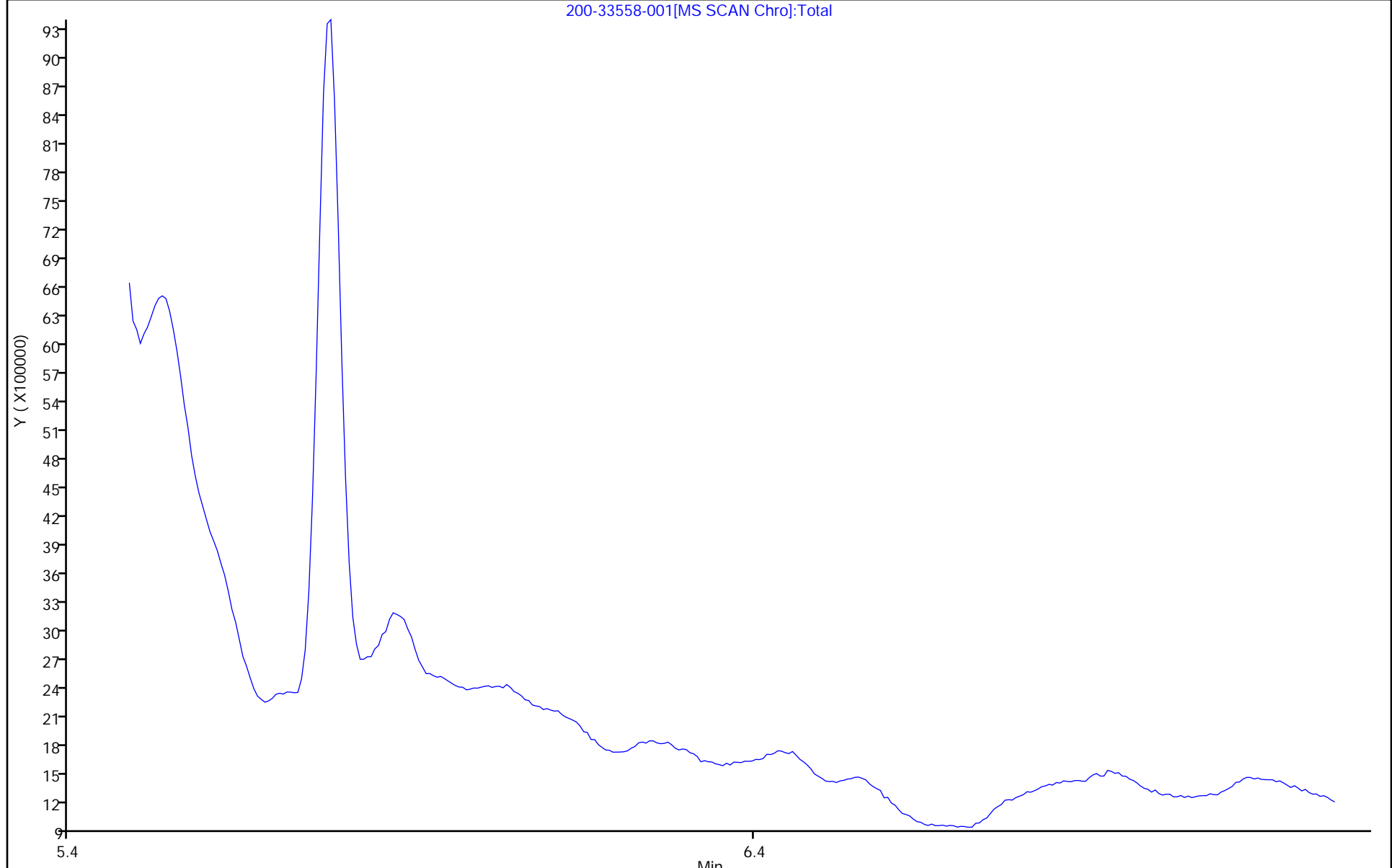
ALS Bottle#: 1

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.50   | U | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.50   | U | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 0.50   | U | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.20   | U | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 5.0    | U | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.20   | U | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.50   | U | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.20   | U | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.035  | U | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.20   | U | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.20   | U | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    | U | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.0    | U | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 1.2    | U | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.1    | U | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 12     | U | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 0.70   | U | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.5    | U | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.69   | U | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.22   | U | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.64   | U | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 0.75   | U | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137819/5  
 Matrix: Air Lab File ID: 200-33531-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/05/2018 17:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 05-Dec-2018 17:29:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-005  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 13:09:01 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa

Date: 06-Dec-2018 13:09:01

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.090     | 3.096         | -0.006        | 78 | 4907     |                 | 0.1075            |       |
| 2 Dichlorodifluoromethane     | 85  | 3.149     | 3.155         | -0.006        | 99 | 8367     |                 | 0.0339            |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |               |    |          |                 | ND                |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.353         |               |    |          |                 | ND                |       |
| 5 Chloromethane               | 50  |           | 3.465         |               |    |          |                 | ND                | U     |
| 6 Butane                      | 43  |           | 3.604         |               |    |          |                 | ND                | U     |
| 7 Vinyl chloride              | 62  |           | 3.647         |               |    |          |                 | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.711         |               |    |          |                 | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |               |    |          |                 | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |               |    |          |                 | ND                | U     |
| 12 2-Methylbutane             | 43  |           | 4.444         |               |    |          |                 | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |               |    |          |                 | ND                | U     |
| 14 Trichlorofluoromethane     | 101 |           | 4.760         |               |    |          |                 | ND                |       |
| 16 Pentane                    | 43  |           | 4.866         |               |    |          |                 | ND                |       |
| 17 Ethanol                    | 45  | 5.241     | 5.241         | -0.005        | 77 | 2477     |                 | 0.1853            | M     |
| 18 Ethyl ether                | 59  |           | 5.327         |               |    |          |                 | ND                | U     |
| 19 Acrolein                   | 56  |           | 5.594         |               |    |          |                 | ND                |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.605         |               |    |          |                 | ND                | U     |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |               |    |          |                 | ND                | U     |
| 22 Acetone                    | 43  | 5.883     | 5.856         | 0.027         | 97 | 56481    |                 | 1.10              |       |
| 23 Carbon disulfide           | 76  |           | 6.017         |               |    |          |                 | ND                | Ua    |
| 24 Isopropyl alcohol          | 45  |           | 6.097         |               |    |          |                 | ND                | U     |
| 25 3-Chloro-1-propene         | 41  |           | 6.305         |               |    |          |                 | ND                | U     |
| 26 Acetonitrile               | 41  |           | 6.418         |               |    |          |                 | ND                | U     |
| 27 Methylene Chloride         | 49  |           | 6.557         |               |    |          |                 | ND                |       |
| 28 2-Methyl-2-propanol        | 59  |           | 6.771         |               |    |          |                 | ND                |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.948         |               |    |          |                 | ND                | U     |
| 29 Methyl tert-butyl ether    | 73  |           | 6.980         |               |    |          |                 | ND                | U     |
| 32 Acrylonitrile              | 53  |           | 7.070         |               |    |          |                 | ND                | U     |
| 33 Hexane                     | 57  |           | 7.279         |               |    |          |                 | ND                | MU    |
| 34 1,1-Dichloroethane         | 63  |           | 7.729         |               |    |          |                 | ND                | U     |
| 35 Vinyl acetate              | 43  |           | 7.787         |               |    |          |                 | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 37 cis-1,2-Dichloroethene      | 96  |           | 8.724          |               |    |          |                 | ND                | U     |
| 38 2-Butanone (MEK)            | 72  | 8.809     | 8.793          | 0.016         | 94 | 2016     |                 | 0.1092            |       |
| 39 Ethyl acetate               | 88  |           | 8.830          |               |    |          |                 | ND                |       |
| * 40 Chlorobromomethane        | 128 | 9.146     | 9.152          | -0.006        | 79 | 661137   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  |           | 9.210          |               |    |          |                 | ND                | U     |
| 42 Chloroform                  | 83  |           | 9.269          |               |    |          |                 | ND                |       |
| 43 Cyclohexane                 | 84  |           | 9.531          |               |    |          |                 | ND                |       |
| 44 1,1,1-Trichloroethane       | 97  |           | 9.542          |               |    |          |                 | ND                | U     |
| S 30 1,2-Dichloroethene, Total | 61  |           | 9.665          |               |    |          |                 | ND                |       |
| 45 Carbon tetrachloride        | 117 |           | 9.783          |               |    |          |                 | ND                |       |
| 46 Isooctane                   | 57  |           | 10.195         |               |    |          |                 | ND                |       |
| 47 Benzene                     | 78  |           | 10.216         |               |    |          |                 | ND                | U     |
| 48 1,2-Dichloroethane          | 62  |           | 10.382         |               |    |          |                 | ND                |       |
| 49 n-Heptane                   | 43  |           | 10.575         |               |    |          |                 | ND                | U     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019         | -0.006        | 93 | 2878946  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  |           | 11.463         |               |    |          |                 | ND                |       |
| 53 Trichloroethene             | 95  |           | 11.484         |               |    |          |                 | ND                | U     |
| 54 1,2-Dichloropropane         | 63  |           | 12.030         |               |    |          |                 | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.206         |               |    |          |                 | ND                |       |
| A 51 GRO                       | 1   | 12.257    | (4.423-20.091) |               | 0  | 12170550 |                 | 0                 |       |
| 57 Dibromomethane              | 174 | 12.281    | 12.281         | 0.016         | 44 | 2160     |                 | 0.0234            | M     |
| 56 1,4-Dioxane                 | 88  |           | 12.286         |               |    |          |                 | ND                |       |
| 58 Dichlorobromomethane        | 83  |           | 12.549         |               |    |          |                 | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.485         |               |    |          |                 | ND                | U     |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790         |               |    |          |                 | ND                | U     |
| 65 Toluene                     | 92  | 14.073    | 14.073         | 0.005         | 29 | 2274     |                 | 0.0198            | M     |
| 64 n-Octane                    | 43  |           | 14.143         |               |    |          |                 | ND                | U     |
| A 59 TVOC as Toluene           | 92  | 14.159    | (3.086-25.232) |               | 0  | 12380077 |                 | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.651         |               |    |          |                 | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.025         |               |    |          |                 | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 15.143         |               |    |          |                 | ND                | MU    |
| 69 2-Hexanone                  | 43  |           | 15.507         |               |    |          |                 | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780         |               |    |          |                 | ND                | U     |
| 72 Ethylene Dibromide          | 107 | 16.042    | 16.042         | -0.005        | 48 | 1791     |                 | 0.0143            | M     |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957         | 0.000         | 84 | 2834161  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.005    | 17.016         | -0.011        | 38 | 3148     |                 | 0.0178            |       |
| 76 Ethylbenzene                | 91  |           | 17.182         |               |    |          |                 | ND                | MUa   |
| 77 n-Nonane                    | 57  |           | 17.358         |               |    |          |                 | ND                |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.433         | 0.005         | 0  | 2485     |                 | 0.0237            |       |
| 79 o-Xylene                    | 106 | 18.284    | 18.284         | -0.010        | 17 | 1765     |                 | 0.0177            | M     |
| 80 Styrene                     | 104 | 18.337    | 18.337         | 0.000         | 33 | 1129     |                 | 0.007405          | 7a    |
| 81 Bromoform                   | 173 |           | 18.781         |               |    |          |                 | ND                | U     |
| 82 Isopropylbenzene            | 105 |           | 19.049         |               |    |          |                 | ND                | Ua    |
| S 73 Xylenes, Total            | 106 |           |                |               | 0  |          |                 | 0.0414            |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765         |               |    |          |                 | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.846         |               |    |          |                 | ND                | U     |
| 86 1,2,3-Trichloropropane      | 75  |           | 19.862         |               |    |          |                 | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.044         |               |    |          |                 | ND                | MU    |
| 88 4-Ethyltoluene              | 105 | 20.070    | 20.070         | 0.016         | 37 | 3153     |                 | 0.0107            | Ma    |
| 87 n-Decane                    | 57  |           | 20.081         |               |    |          |                 | ND                |       |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 20.177         |               |    |          |                 | ND                |       |
| 91 Alpha Methyl Styrene        | 118 | 20.573    | 20.573         | 0.005         | 12 | 2017     |                 | 0.0170            | M     |



| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          |                 | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 | 20.793    | 20.793        | -0.005        | 21 | 3191     |                 | 0.0128            | M     |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          |                 | ND                | Ua    |
| 95 4-Isopropyltoluene          | 119 |           | 21.269        |               |    |          |                 | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 | 21.279    | 21.279        | 0.005         | 90 | 7102     |                 | 0.0352            | M     |
| 97 1,4-Dichlorobenzene         | 146 | 21.418    | 21.418        | 0.000         | 91 | 8021     |                 | 0.0415            |       |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          |                 | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.852        |               |    |          |                 | ND                | U     |
| 99 Undecane                    | 57  |           | 21.905        |               |    |          |                 | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 | 21.948    | 21.953        | -0.005        | 92 | 6348     |                 | 0.0342            |       |
| 102 Dodecane                   | 57  |           | 23.435        |               |    |          |                 | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 | 24.339    | 24.334        | 0.005         | 29 | 9673     |                 | 0.0693            |       |
| 104 Hexachlorobutadiene        | 225 |           | 24.526        |               |    |          |                 | ND                | U     |
| 105 Naphthalene                | 128 | 24.778    | 24.778        | 0.000         | 97 | 21335    |                 | 0.0789            |       |
| 106 1,2,3-Trichlorobenzene     | 180 | 25.227    | 25.222        | 0.005         | 74 | 9521     |                 | 0.0790            |       |
| 119 Difluoroethane TIC         | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 118 Chlorotrifluoroethene TIC  | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 120 Total Alkanes TIC          | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 122 1,1,1-Trifluoro-2,2-dichlo | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 121 Freon 115 TIC              | 1   |           | 0.000         |               |    |          |                 | ND                |       |

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

**Reagents:**

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D

Injection Date: 05-Dec-2018 17:29:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

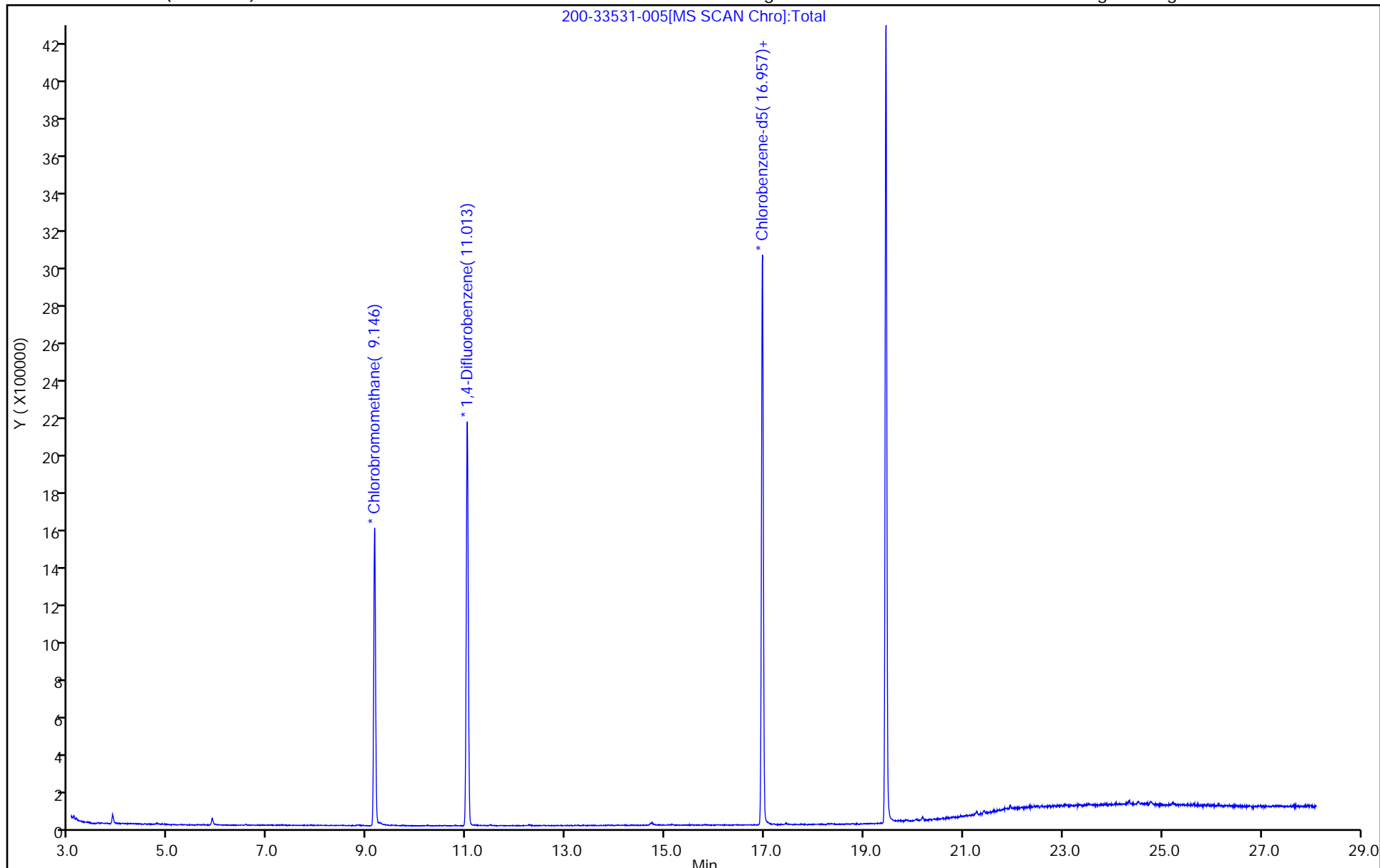
ALS Bottle#: 5

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

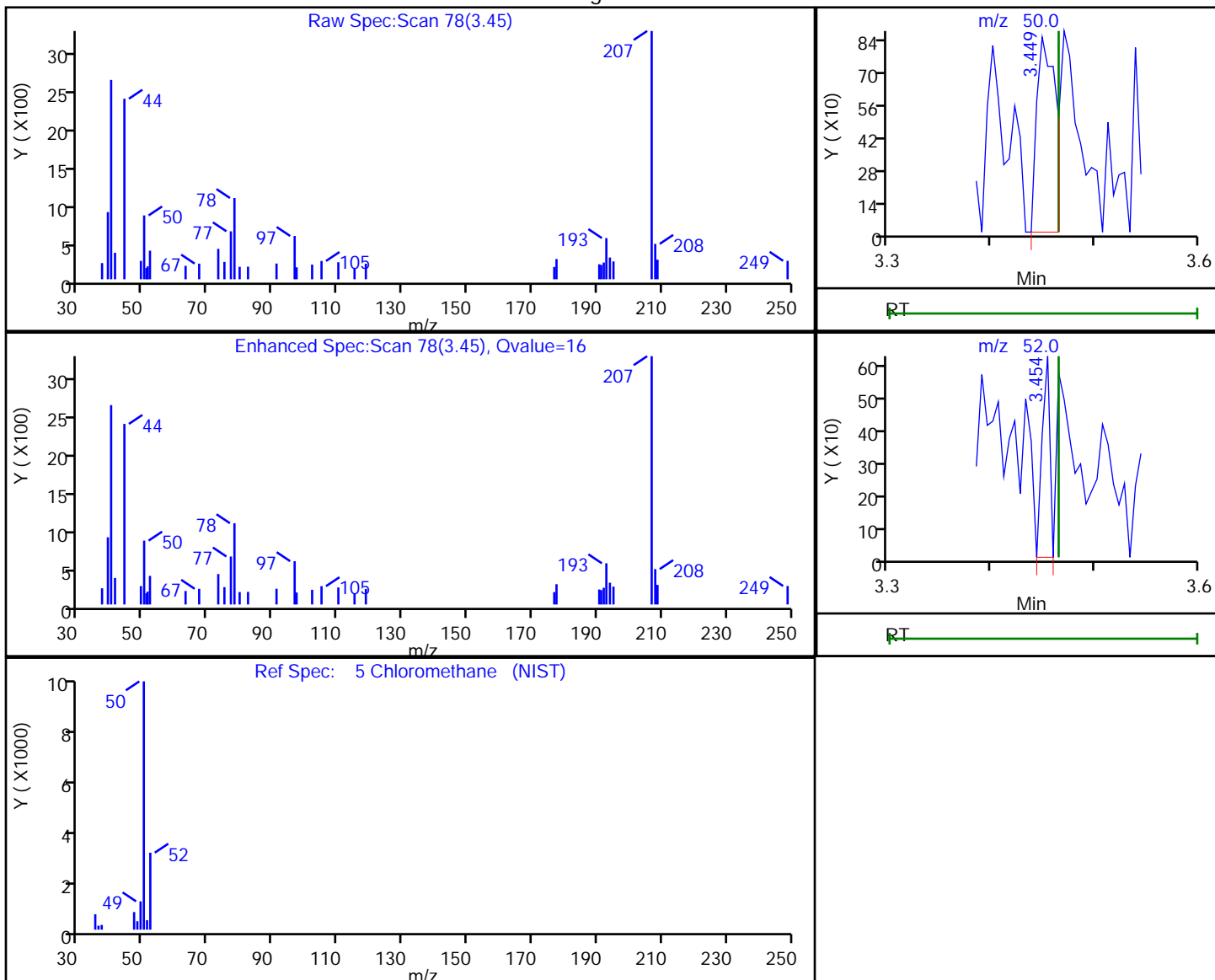


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.45 | 50.00 | 1078     | 0.022461 |
| 3.45 | 52.00 | 322      |          |

Reviewer: bunmaa, 06-Dec-2018 12:55:47

Audit Action: Marked Compound Undetected

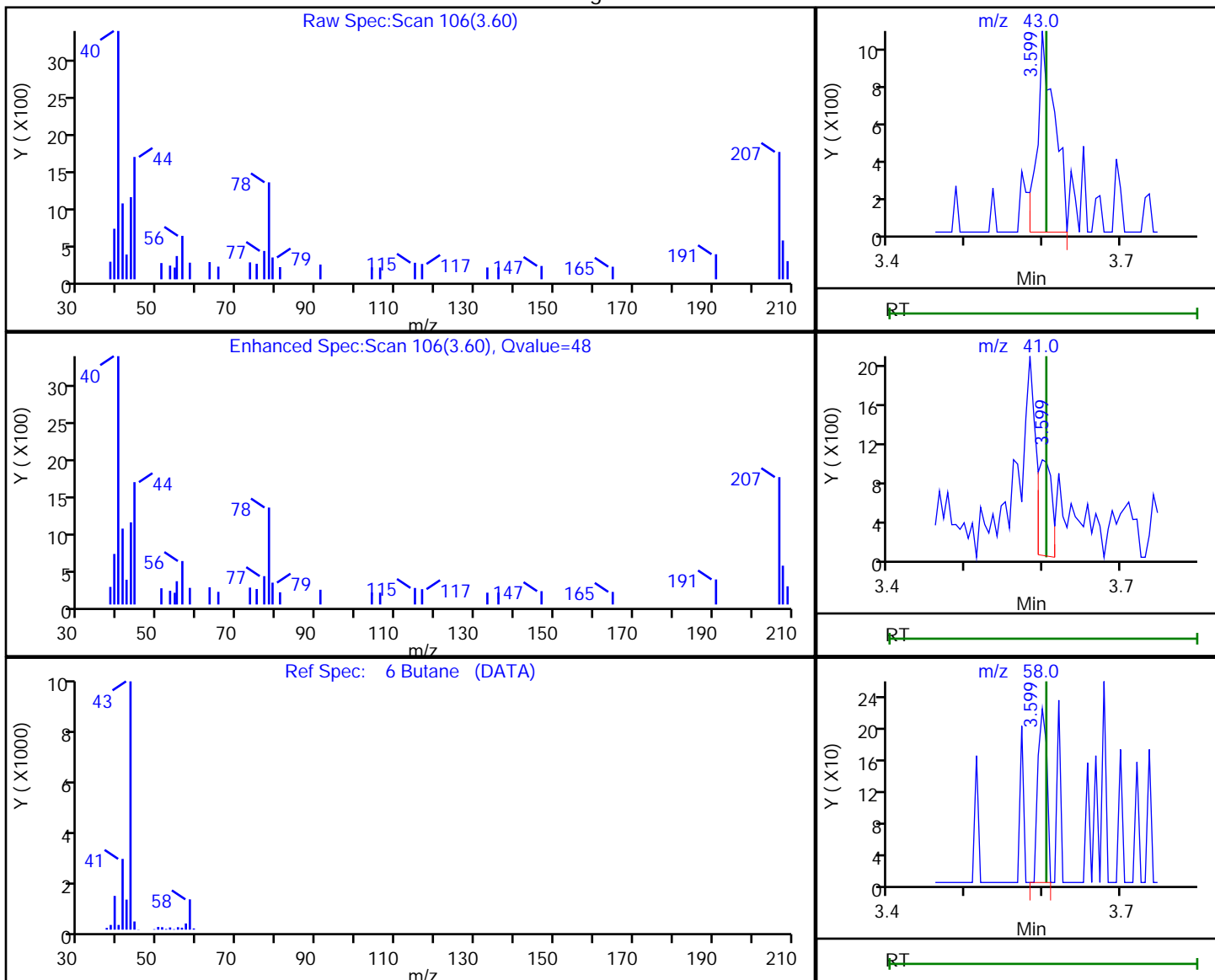
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.60 | 43.00 | 1683     | 0.026050 |
| 3.60 | 41.00 | 1283     |          |
| 3.60 | 58.00 | 180      |          |

Reviewer: bunmaa, 06-Dec-2018 12:55:55  
 Audit Action: Marked Compound Undetected

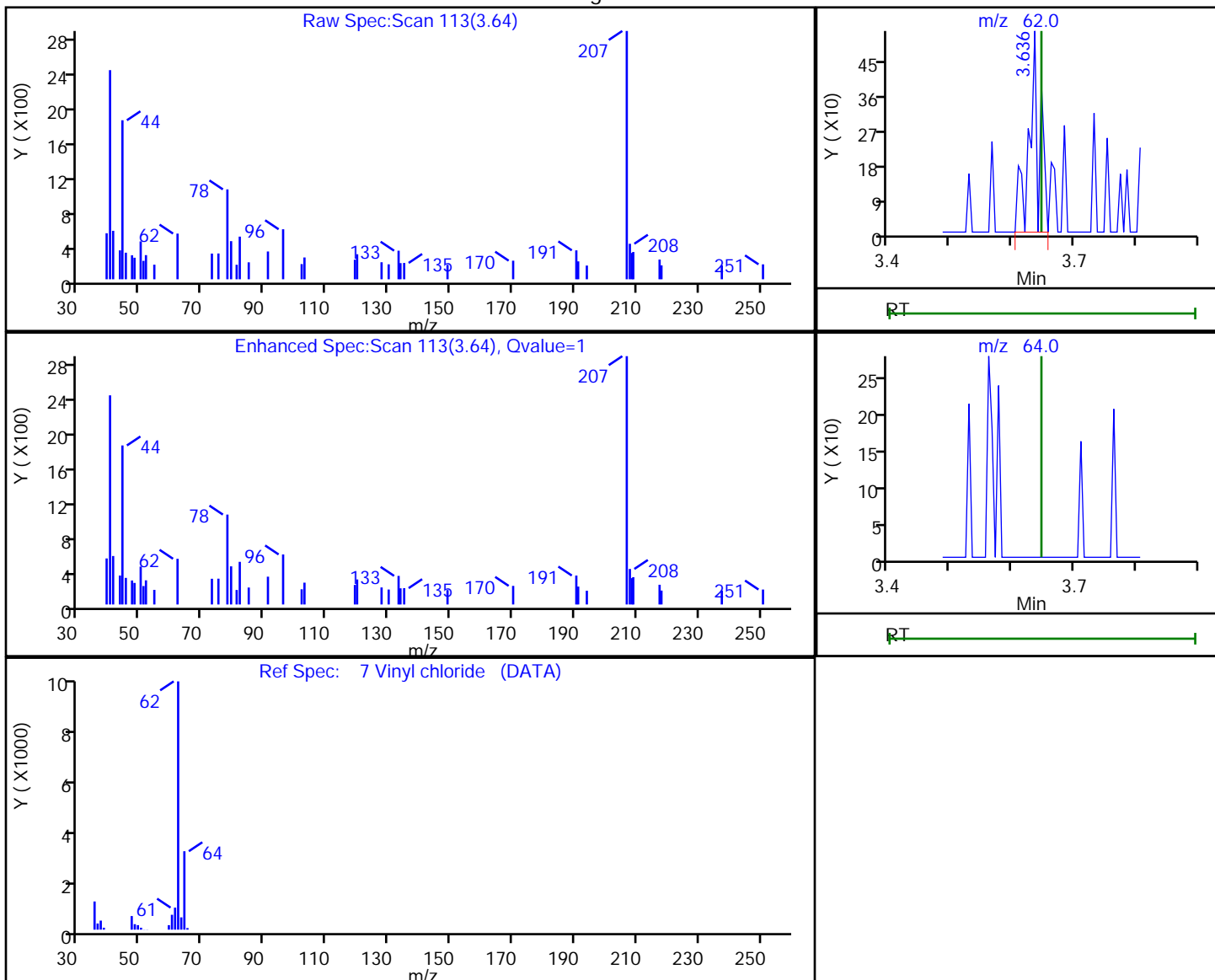
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.64 | 62.00 | 617      | 0.010680 |
| 3.64 | 64.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:55:58

Audit Action: Marked Compound Undetected

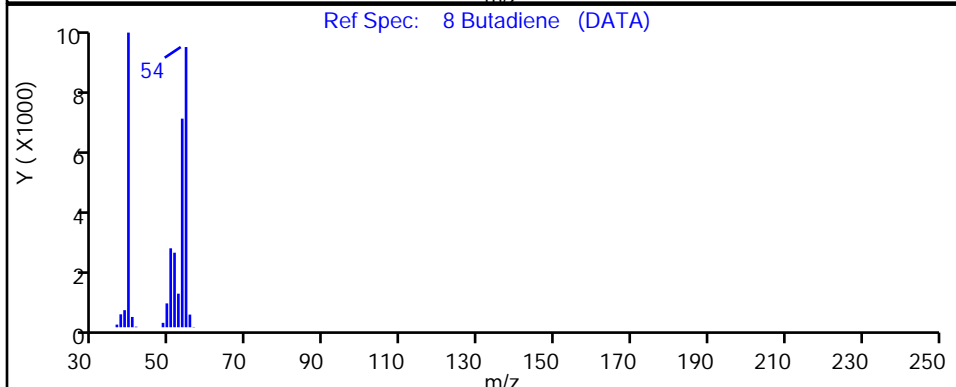
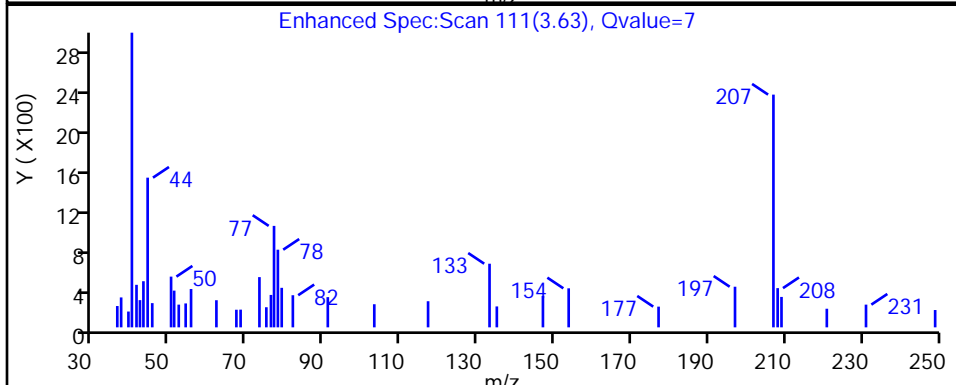
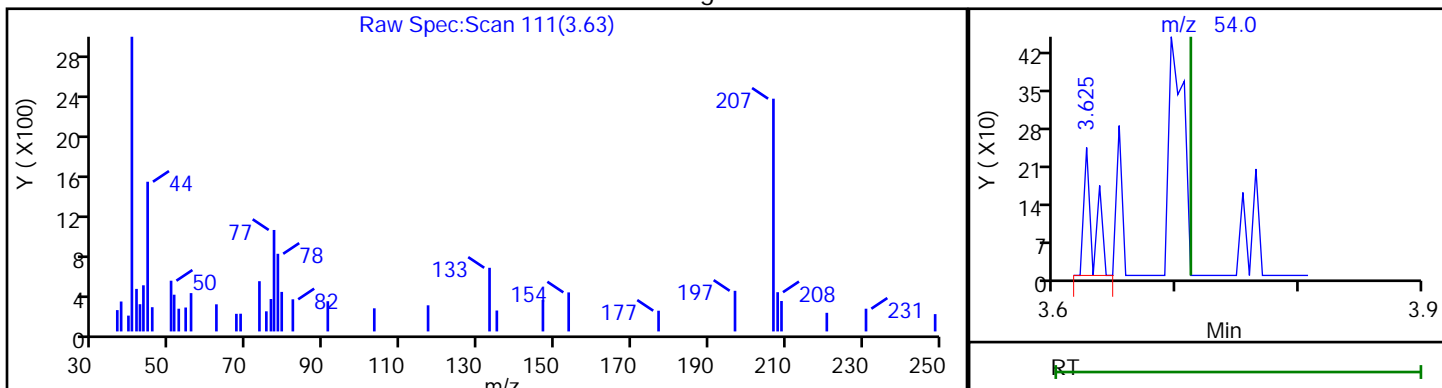
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.63 | 54.00 | 131      | 0.003645 |

Reviewer: bunmaa, 06-Dec-2018 12:56:02

Audit Action: Marked Compound Undetected

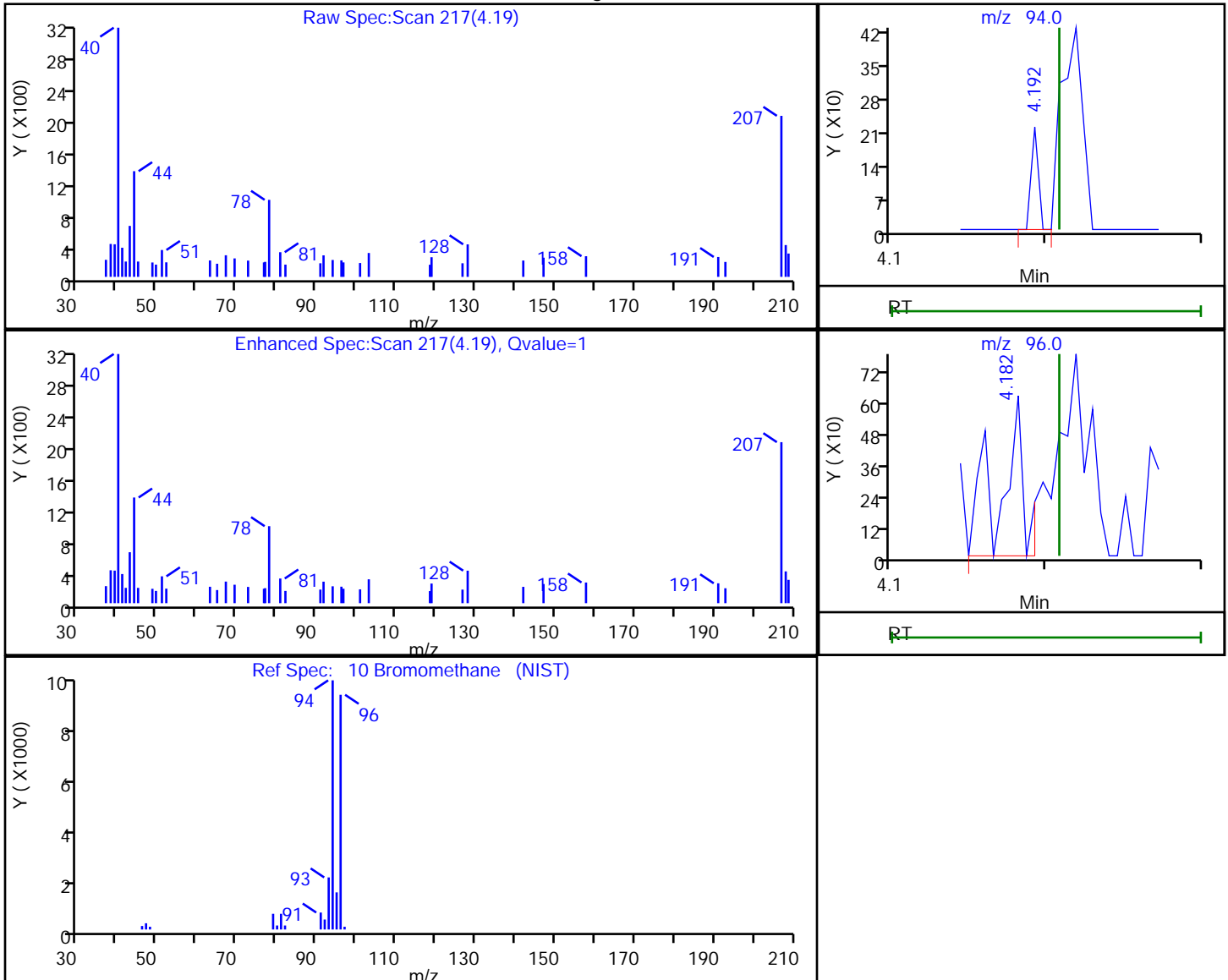
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.19 | 94.00 | 69       | 0.001034 |
| 4.18 | 96.00 | 672      |          |

Reviewer: bunmaa, 06-Dec-2018 12:56:06  
Audit Action: Marked Compound Undetected

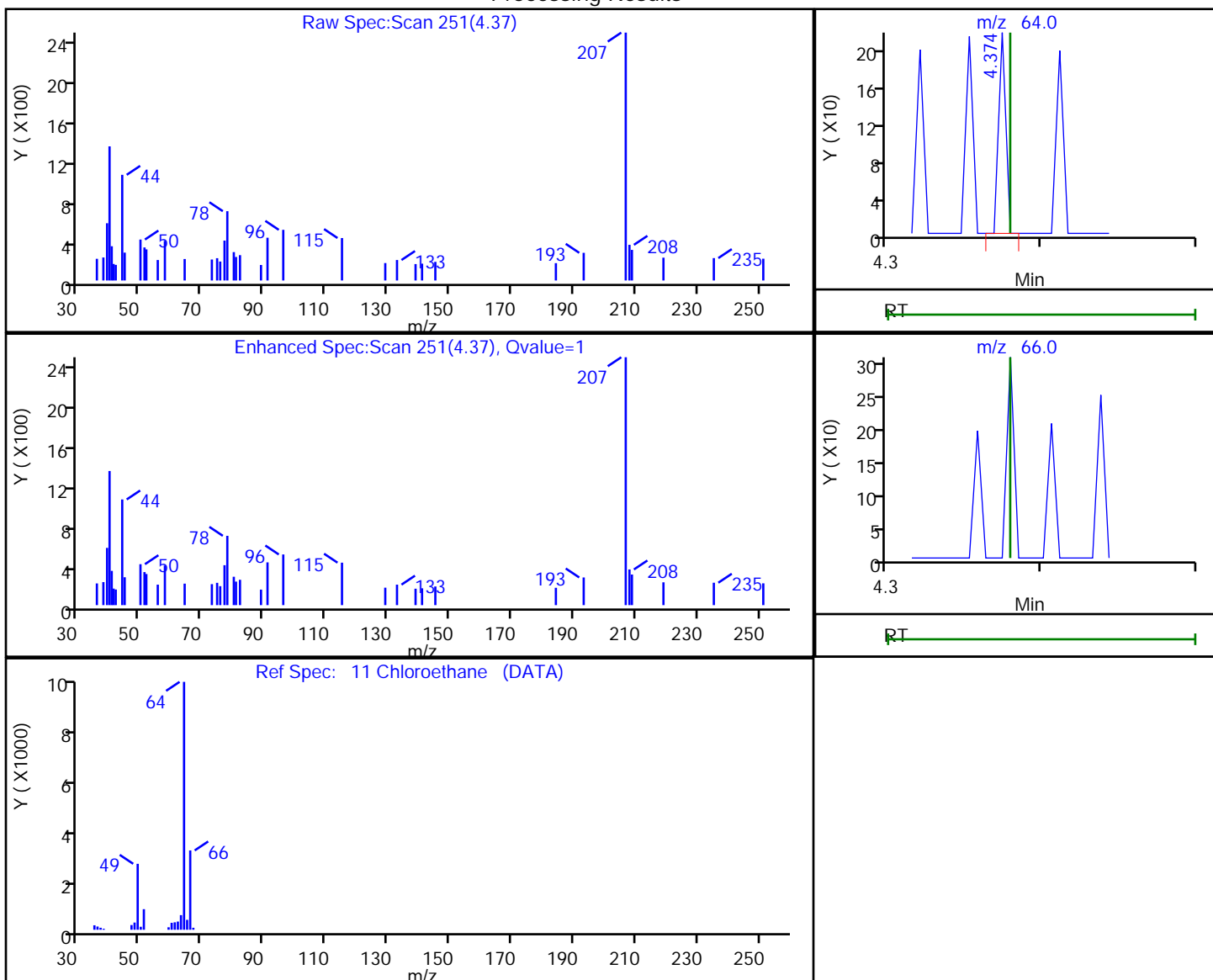
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

11 Chloroethane, CAS: 75-00-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.37 | 64.00 | 68       | 0.003059 |
| 4.38 | 66.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:56:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

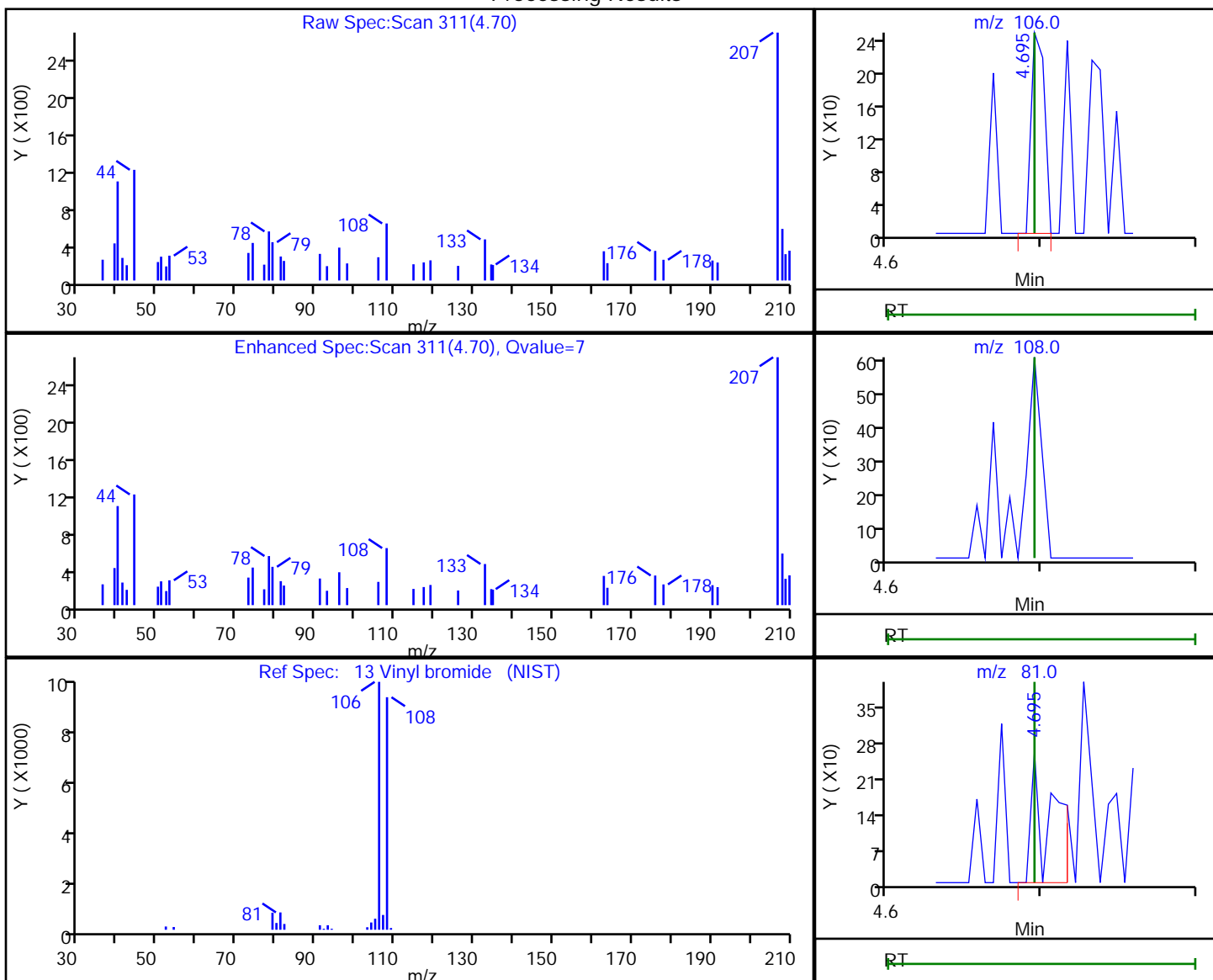


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.70 | 106.00 | 149      | 0.002259 |
| 4.70 | 81.00  | 238      |          |
| 4.68 | 108.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:56:17  
 Audit Action: Marked Compound Undetected

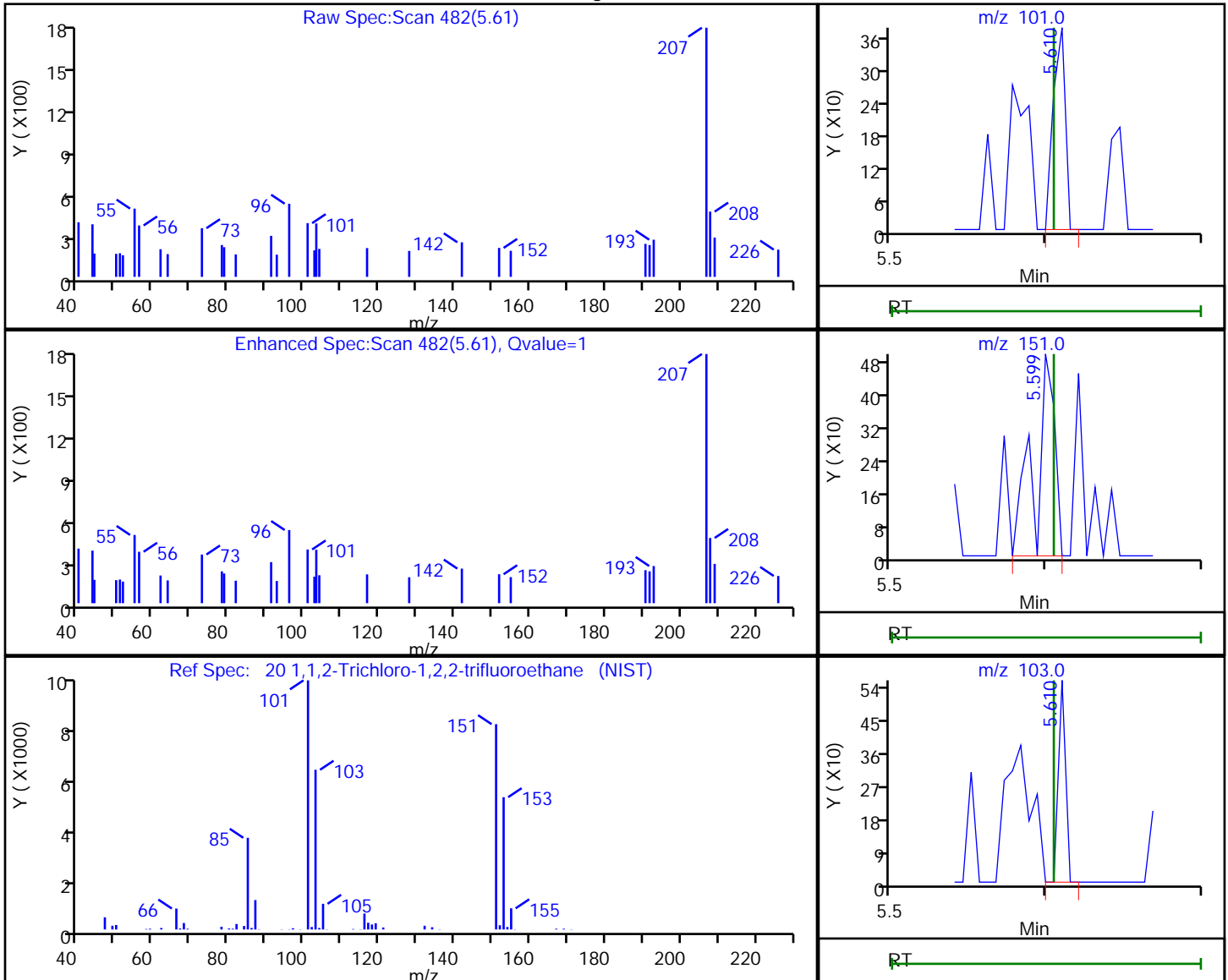
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 5.61 | 101.00 | 202      | 0.001471 |
| 5.60 | 151.00 | 435      |          |
| 5.61 | 103.00 | 178      |          |

Reviewer: bunmaa, 06-Dec-2018 12:57:07  
 Audit Action: Marked Compound Undetected

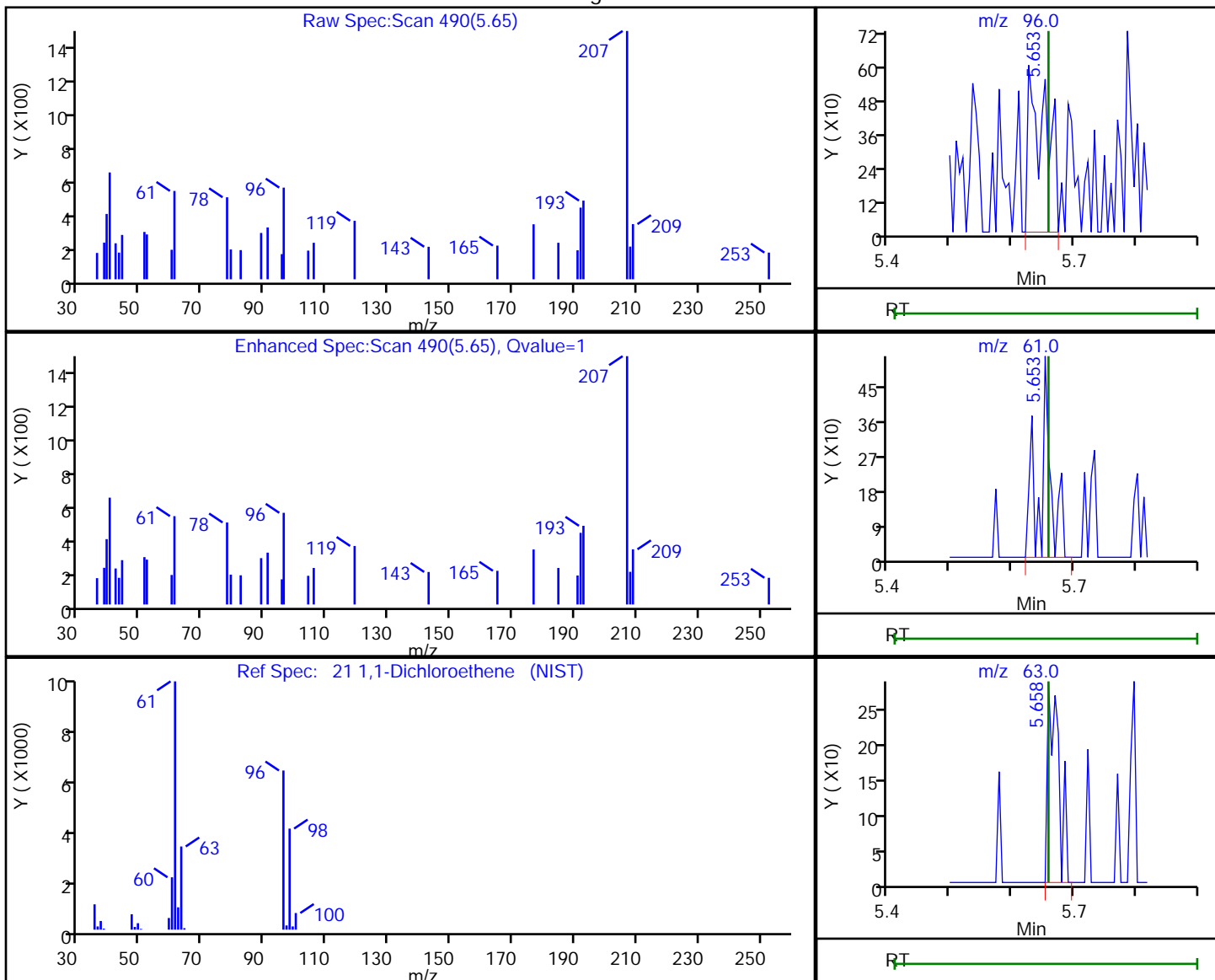
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.65 | 96.00 | 1188     | 0.019656 |
| 5.65 | 61.00 | 656      |          |
| 5.66 | 63.00 | 357      |          |

Reviewer: bunmaa, 06-Dec-2018 12:57:10

Audit Action: Marked Compound Undetected

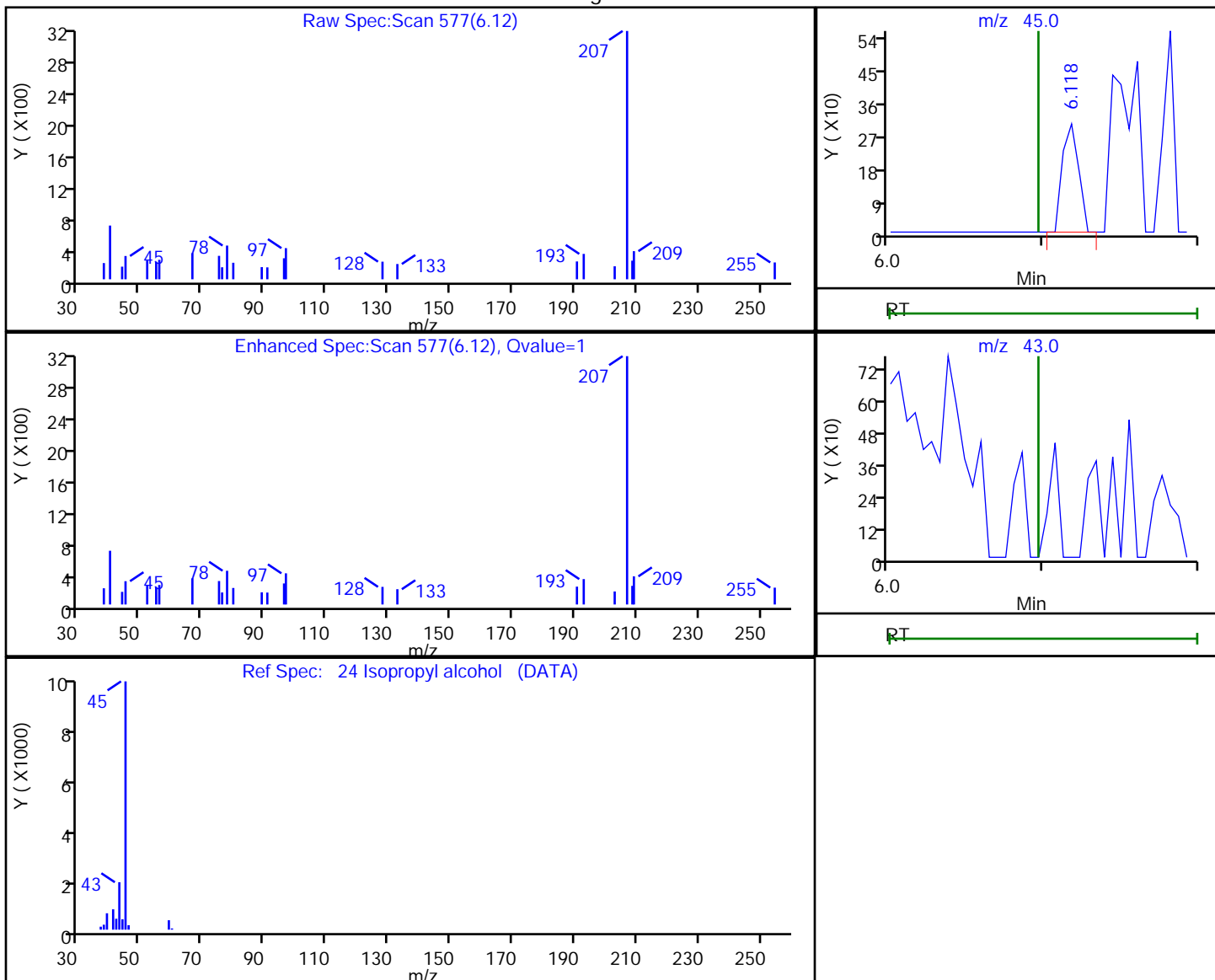
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.12 | 45.00 | 219      | 0.003850 |
| 6.10 | 43.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:57:33

Audit Action: Marked Compound Undetected

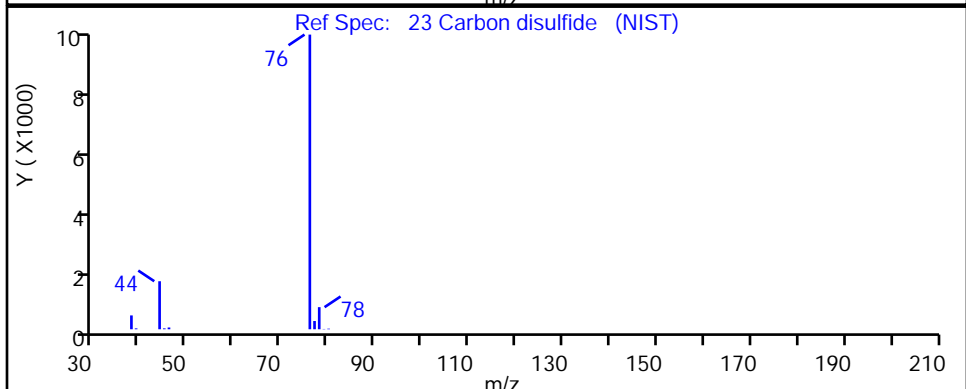
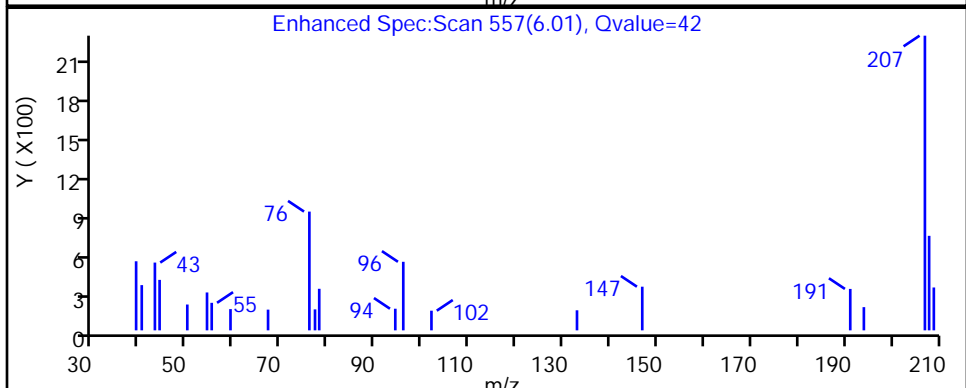
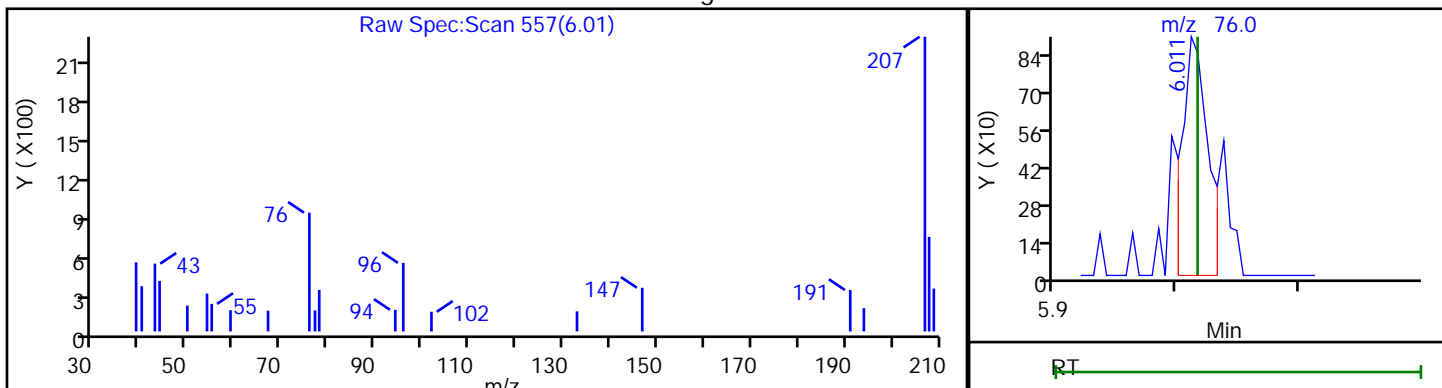
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.01 | 76.00 | 1322     | 0.008504 |

Reviewer: bunmaa, 06-Dec-2018 12:57:27

Audit Action: Marked Compound Undetected

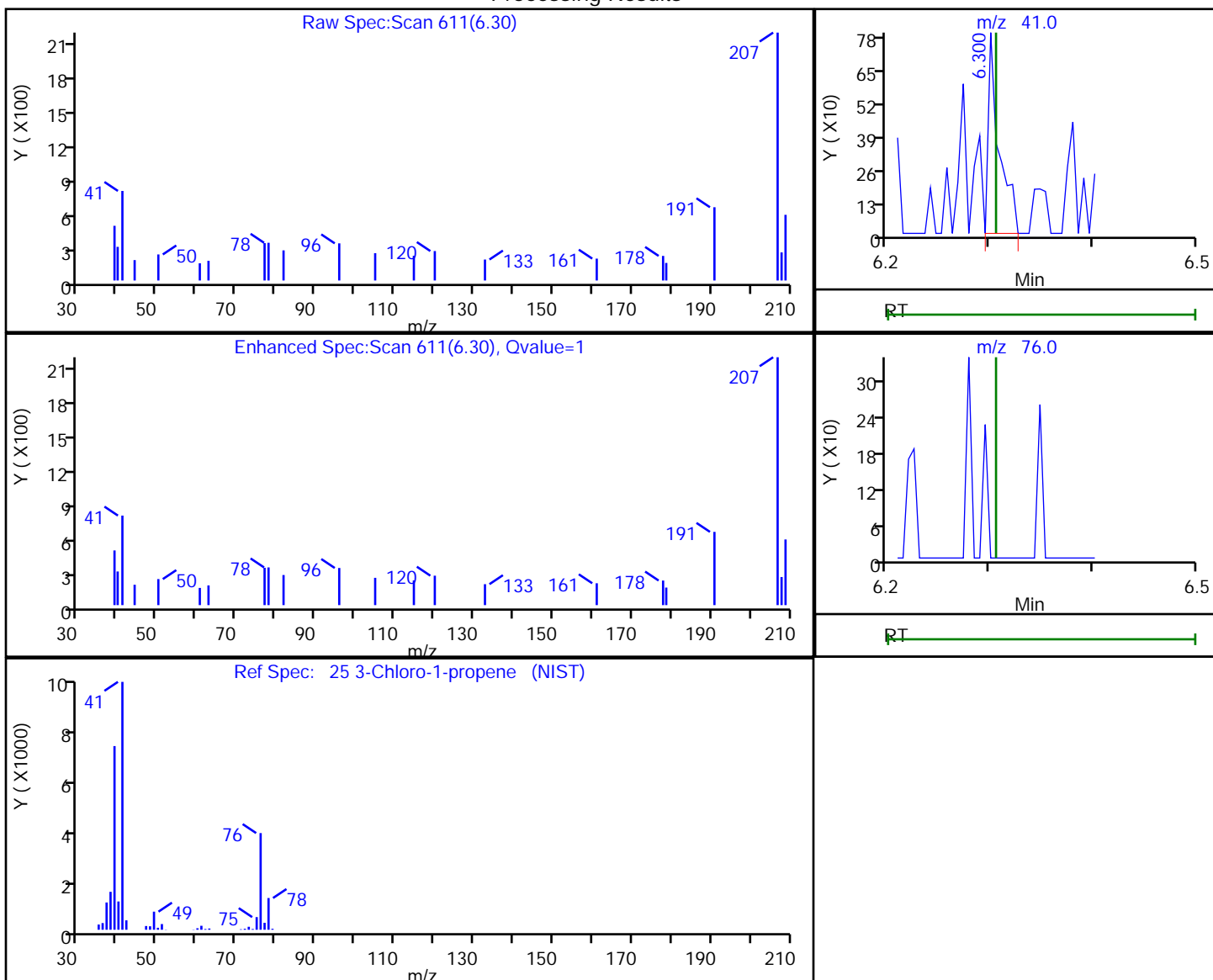
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.30 | 41.00 | 579      | 0.012877 |
| 6.31 | 76.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:57:36  
Audit Action: Marked Compound Undetected

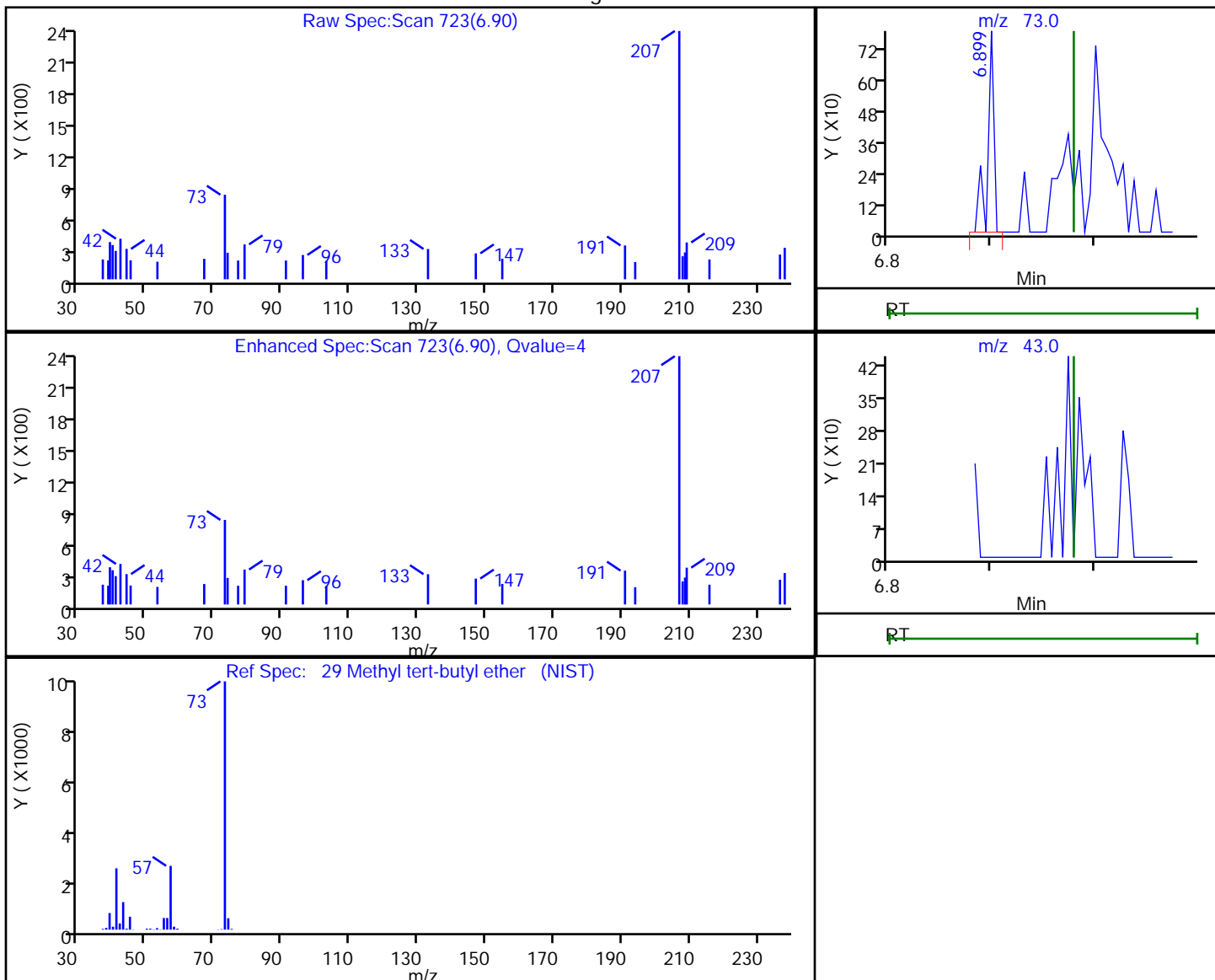
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.90 | 73.00 | 406      | 0.003455 |
| 6.94 | 43.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:58:47

Audit Action: Marked Compound Undetected

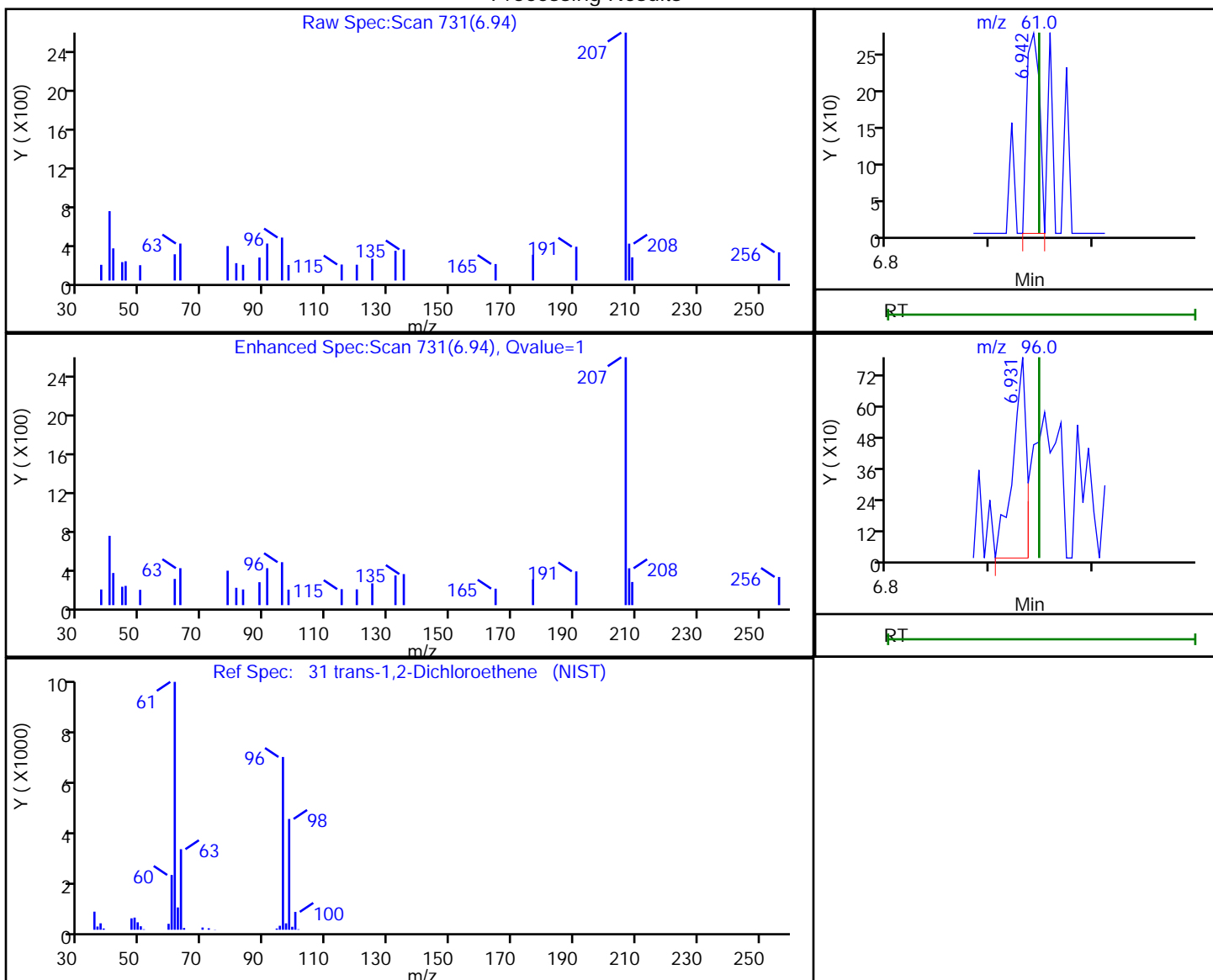
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.94 | 61.00 | 232      | 0.003168 |
| 6.93 | 96.00 | 726      |          |

Reviewer: bunmaa, 06-Dec-2018 12:57:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

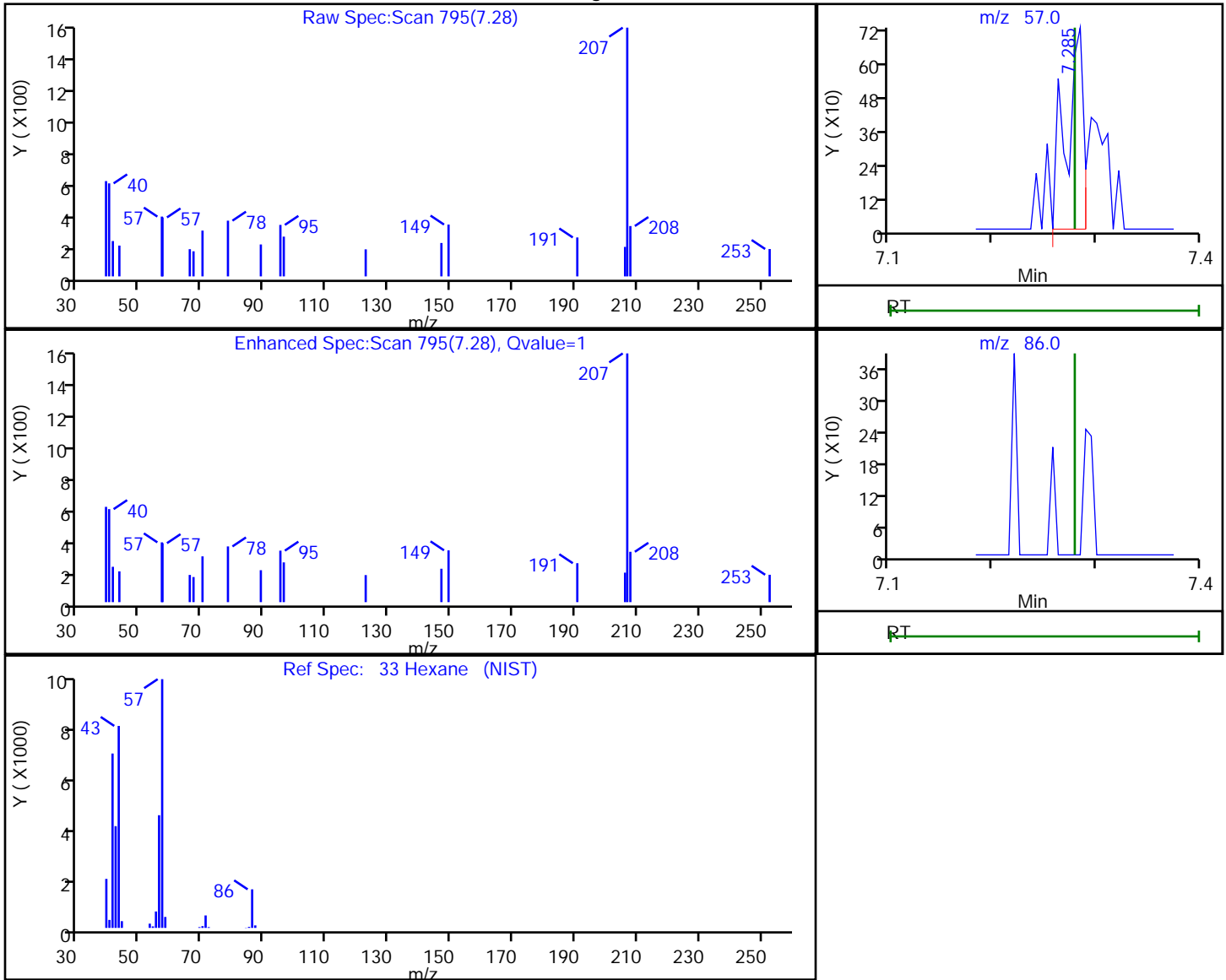


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

33 Hexane, CAS: 110-54-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.28 | 57.00 | 832      | 0.014254 |
| 7.30 | 86.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:59:25  
Audit Action: Marked Compound Undetected

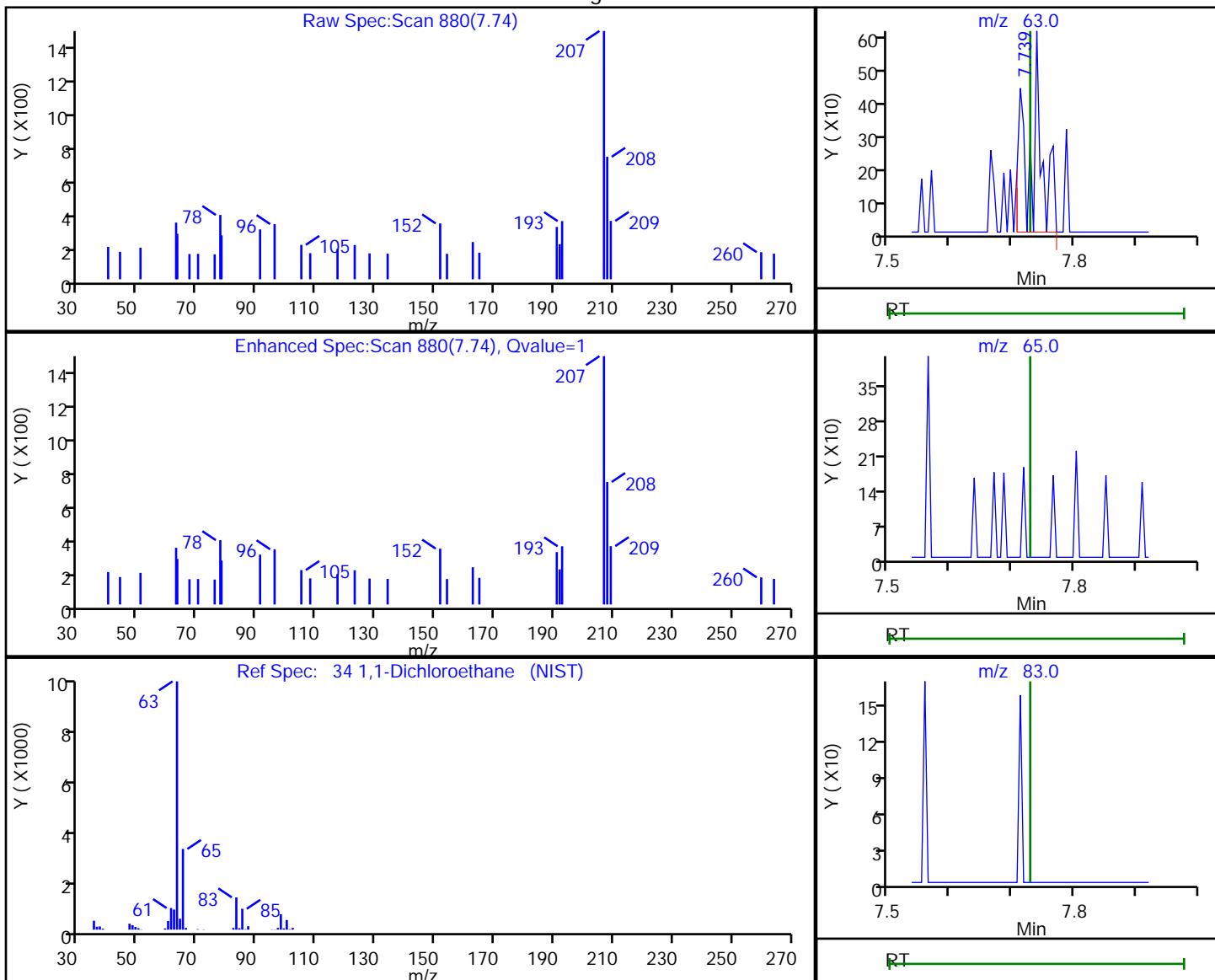
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.74 | 63.00 | 879      | 0.009302 |
| 7.73 | 65.00 | 0        |          |
| 7.73 | 83.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:59:28  
 Audit Action: Marked Compound Undetected

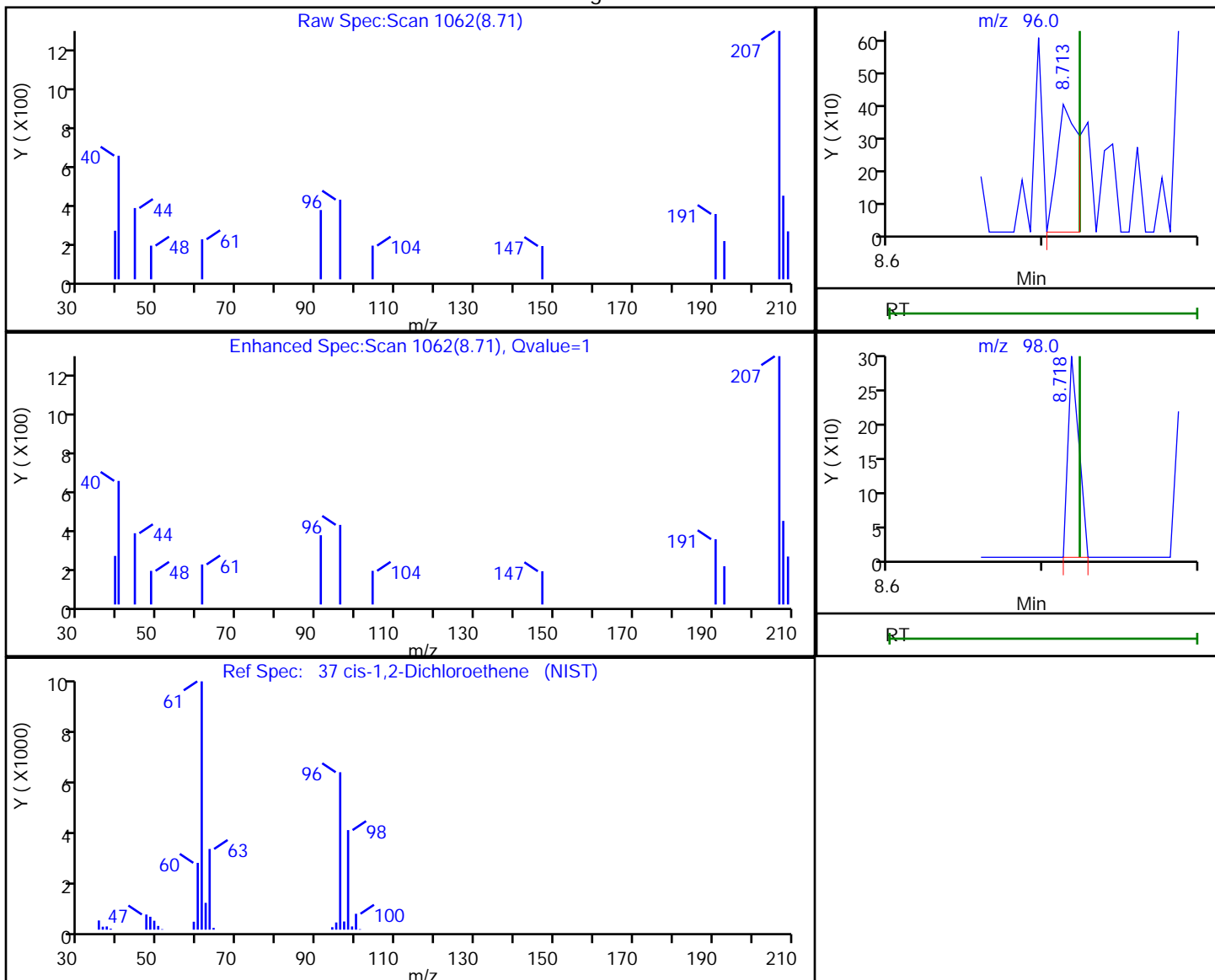
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.71 | 96.00 | 392      | 0.006847 |
| 8.72 | 98.00 | 144      |          |

Reviewer: bunmaa, 06-Dec-2018 12:59:34

Audit Action: Marked Compound Undetected

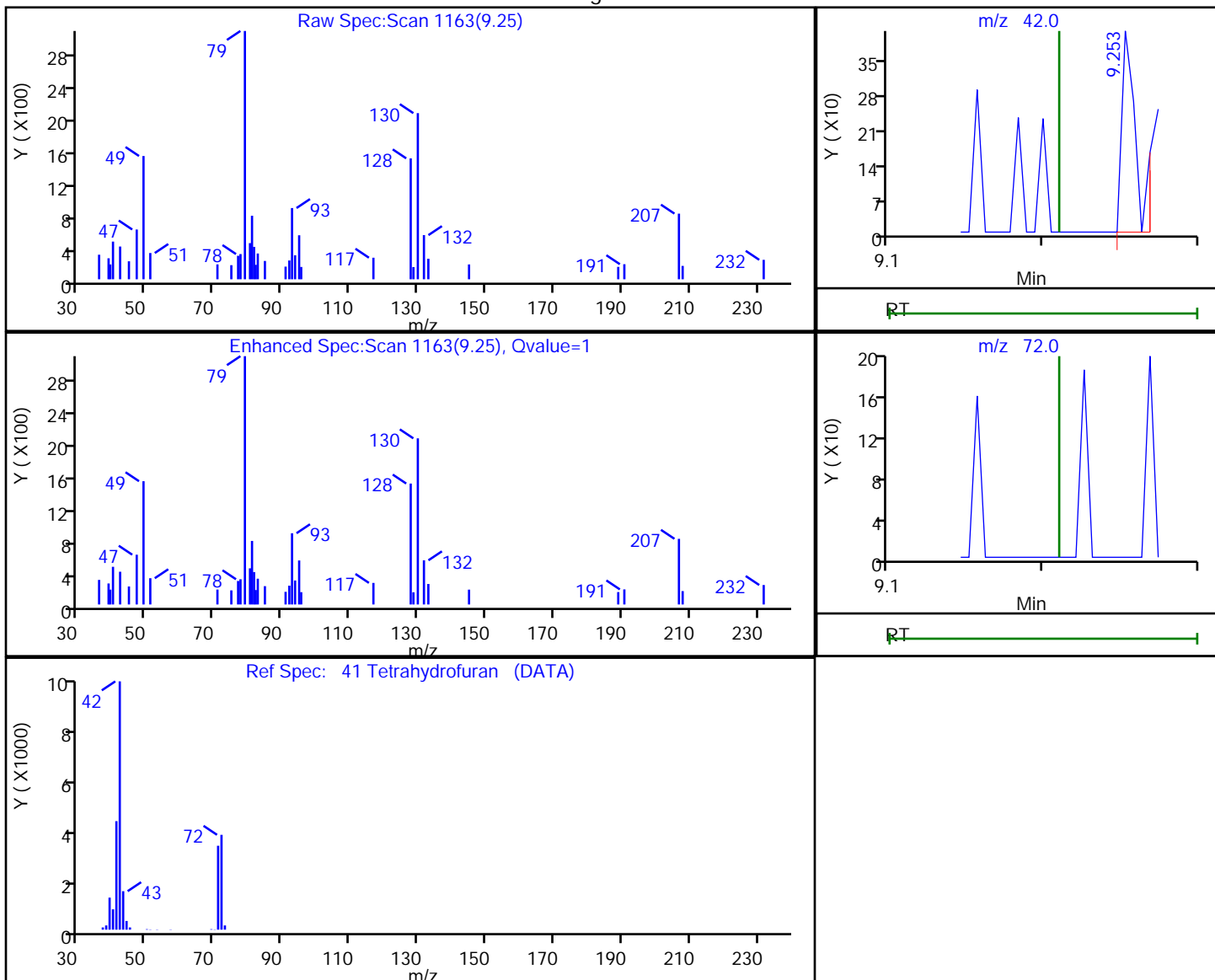
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.25 | 42.00 | 265      | 0.008069 |
| 9.27 | 72.00 | 170      |          |

Reviewer: bunmaa, 06-Dec-2018 12:59:40

Audit Action: Marked Compound Undetected

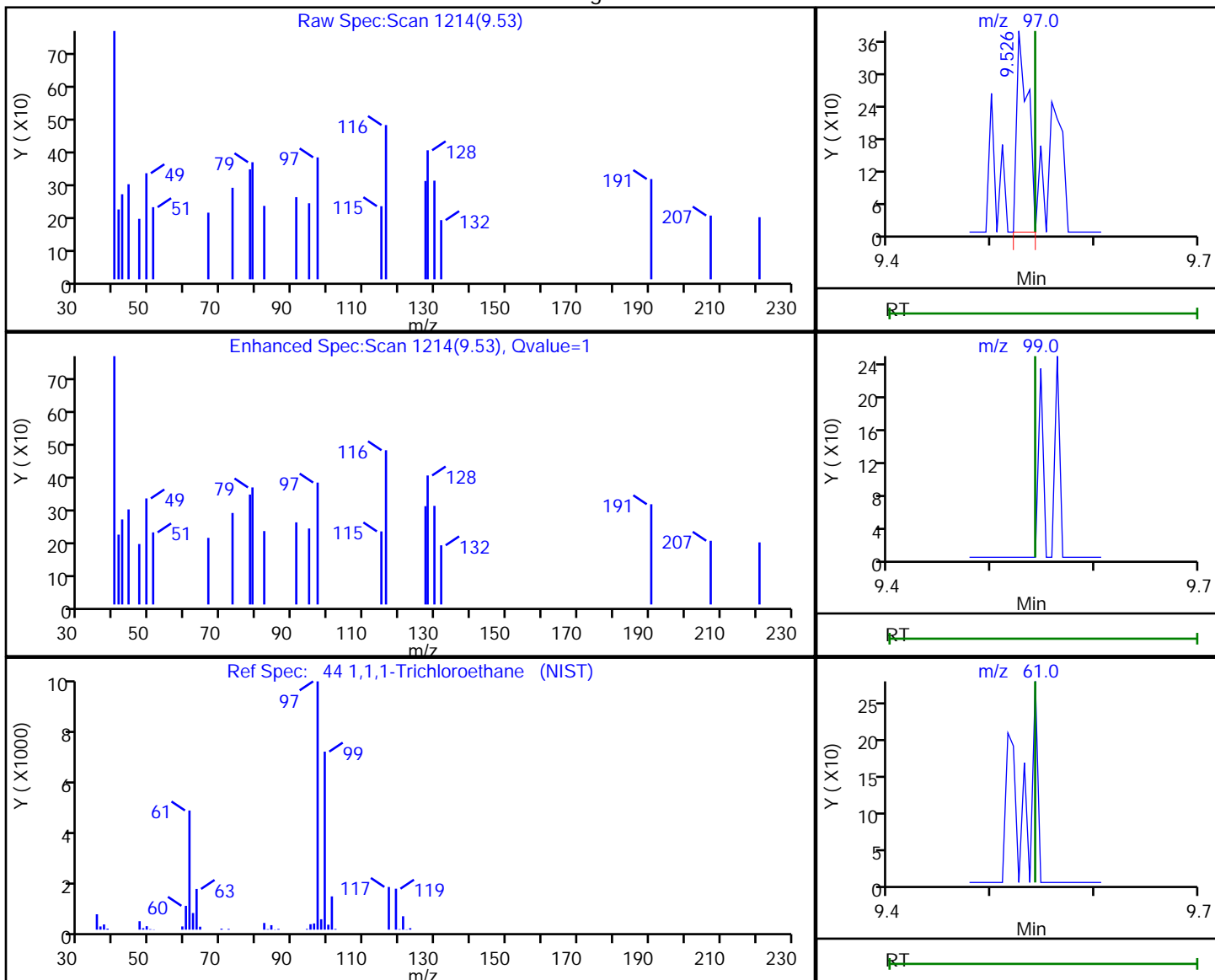
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.53 | 97.00 | 285      | 0.001782 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 12:59:48  
 Audit Action: Marked Compound Undetected

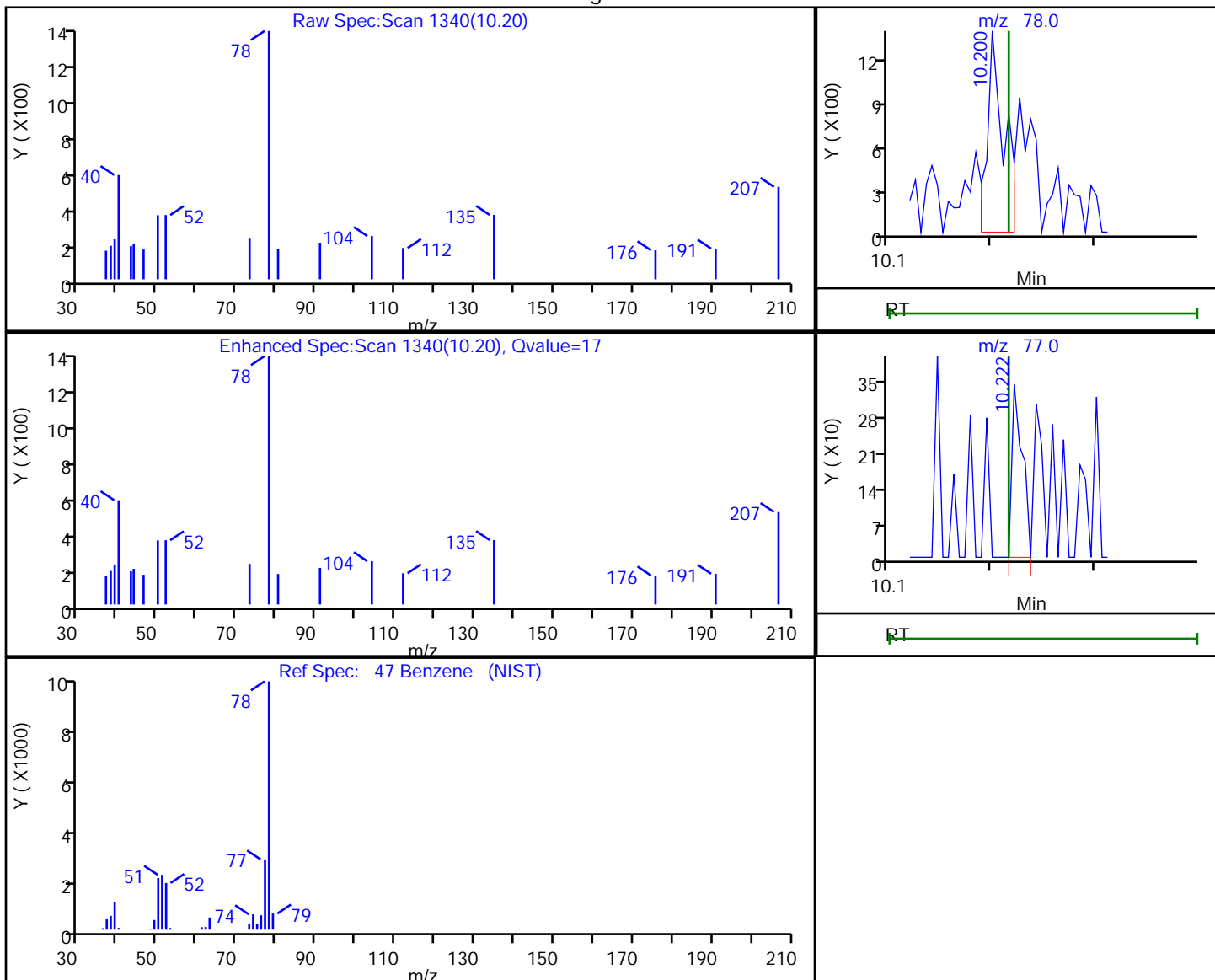
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.20 | 78.00 | 1472     | 0.009602 |
| 10.22 | 77.00 | 239      |          |

Reviewer: bunmaa, 06-Dec-2018 13:00:01

Audit Action: Marked Compound Undetected

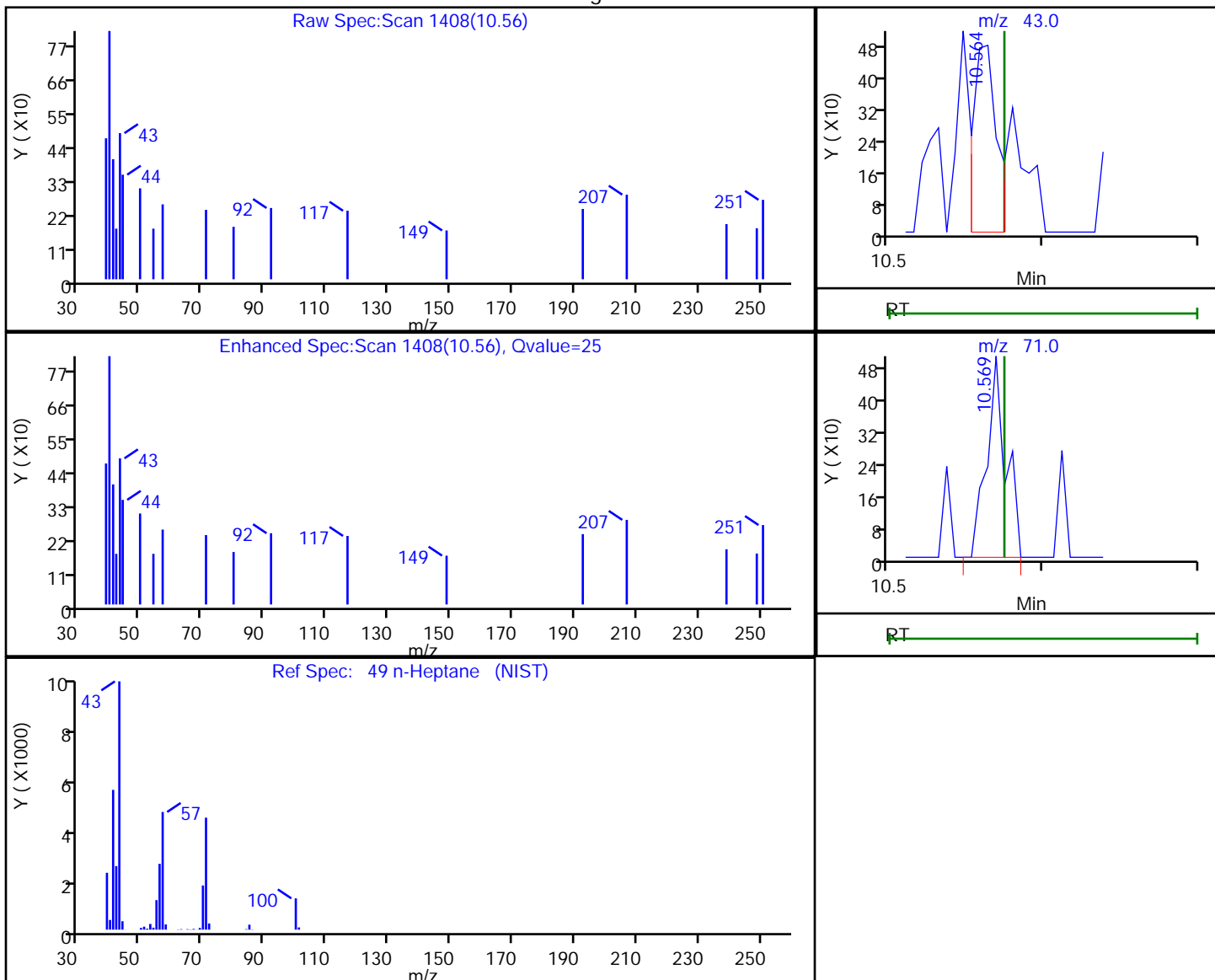
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.56 | 43.00 | 522      | 0.006618 |
| 10.57 | 71.00 | 436      |          |

Reviewer: bunmaa, 06-Dec-2018 13:00:06

Audit Action: Marked Compound Undetected

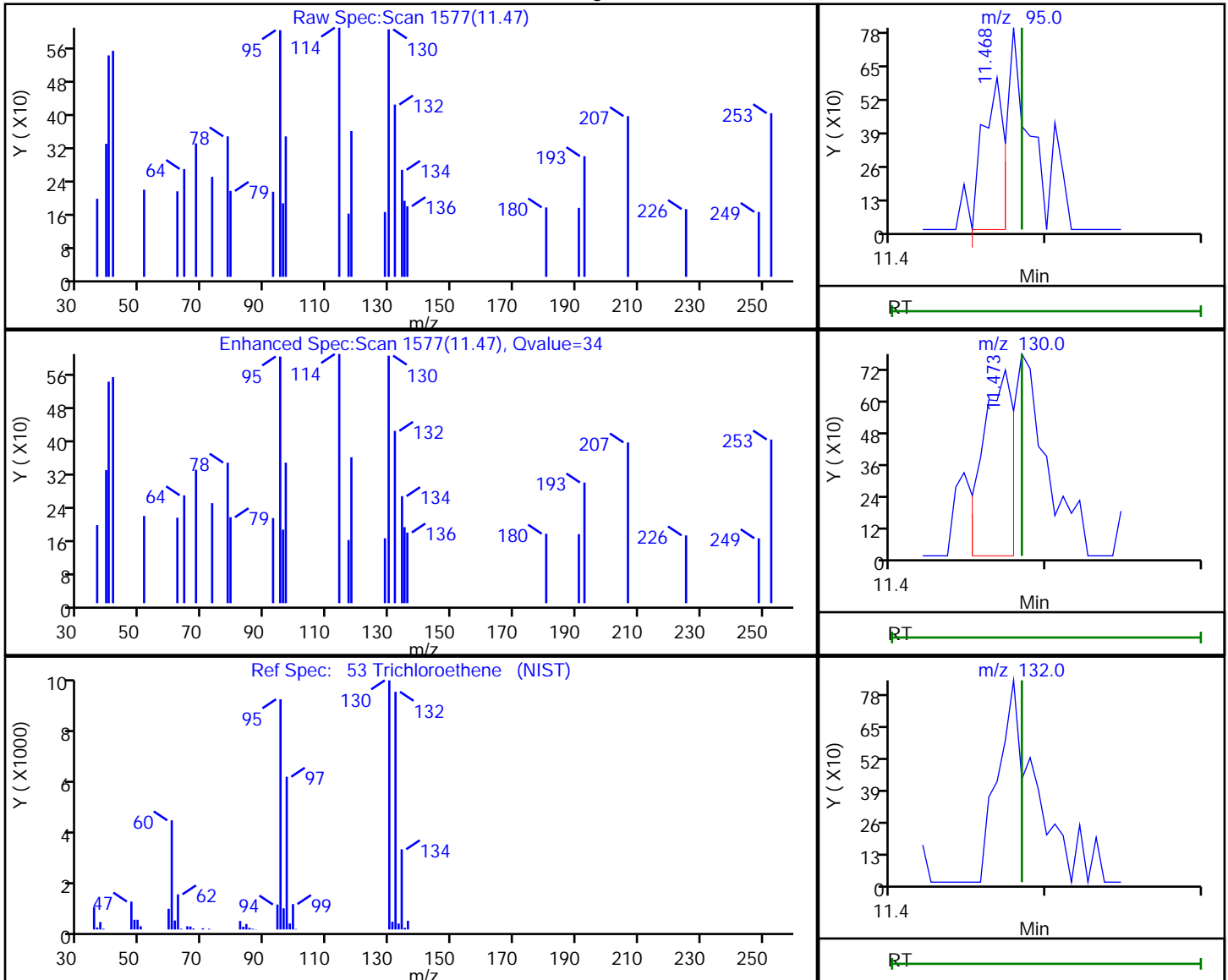
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.47 | 95.00  | 561      | 0.005592 |
| 11.47 | 130.00 | 991      |          |
| 11.48 | 132.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:00:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

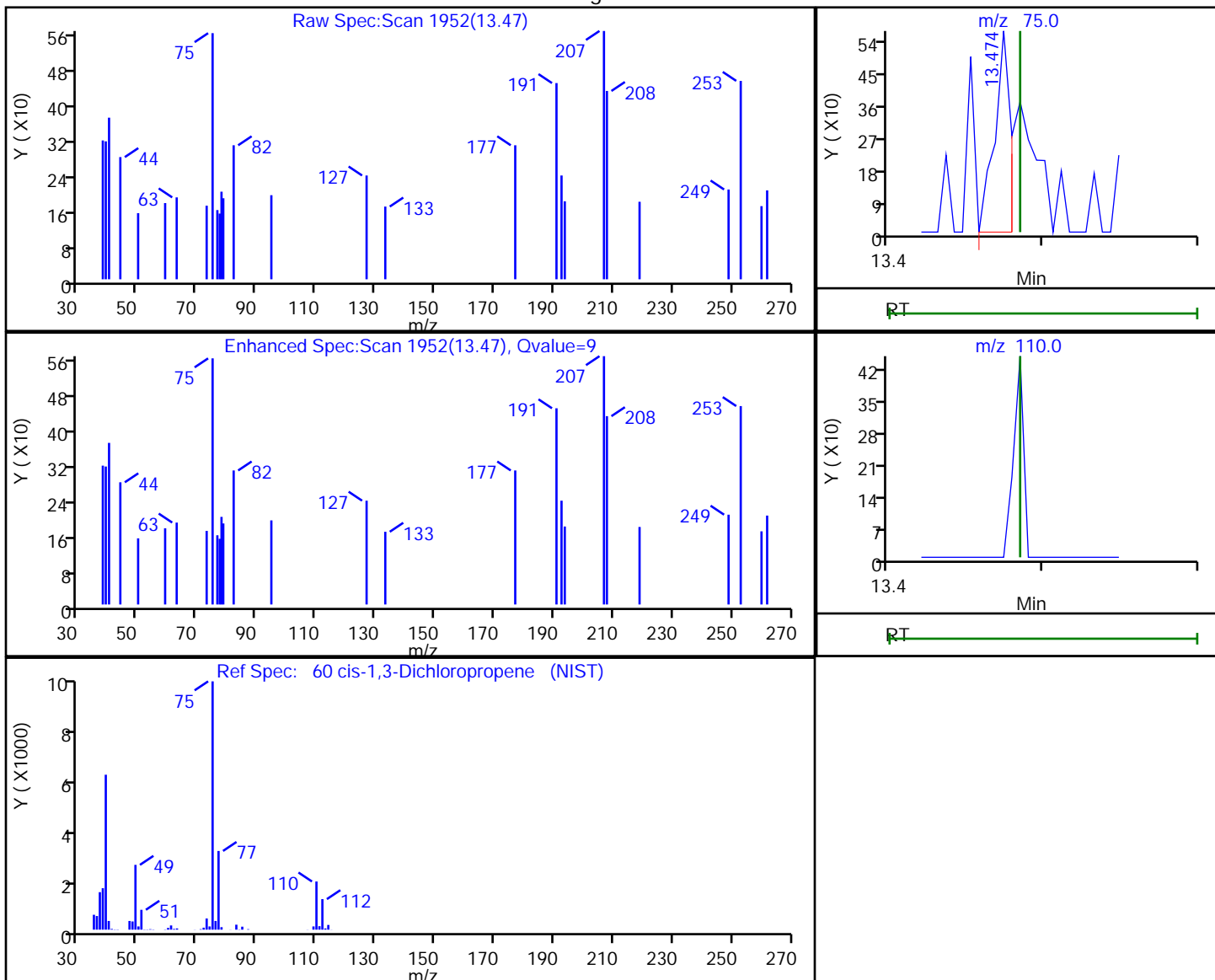


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

60 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 13.47 | 75.00  | 402      | 0.004168 |
| 13.47 | 110.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:01:18

Audit Action: Marked Compound Undetected

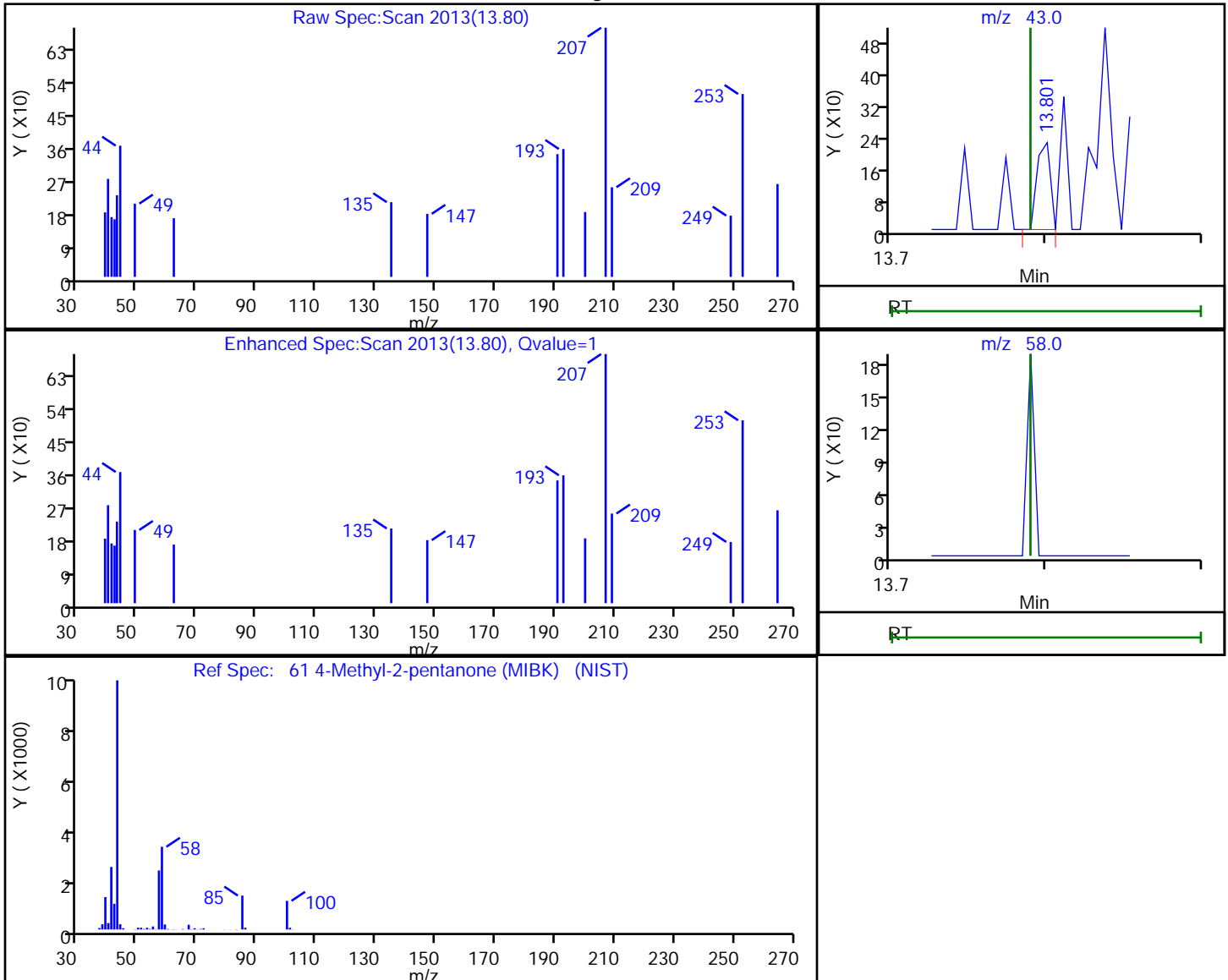
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.80 | 43.00 | 133      | 0.001334 |
| 13.79 | 58.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:01:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

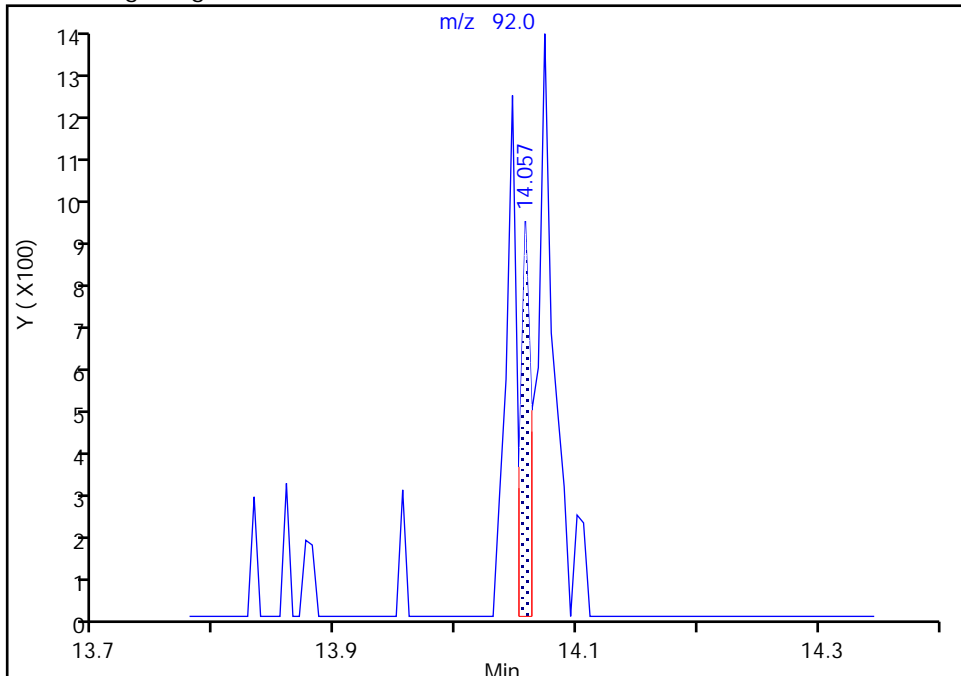
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Signal: 1

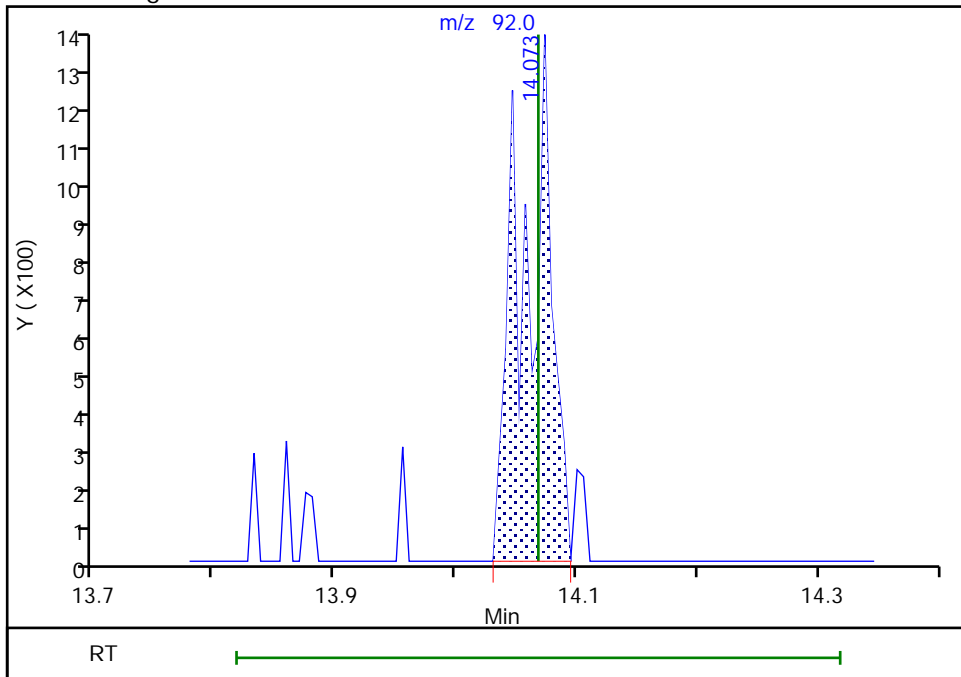
RT: 14.06  
Area: 554  
Amount: 0.004826  
Amount Units: ppb v/v

Processing Integration Results



RT: 14.07  
Area: 2274  
Amount: 0.019808  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:01:33  
Audit Action: Manually Integrated

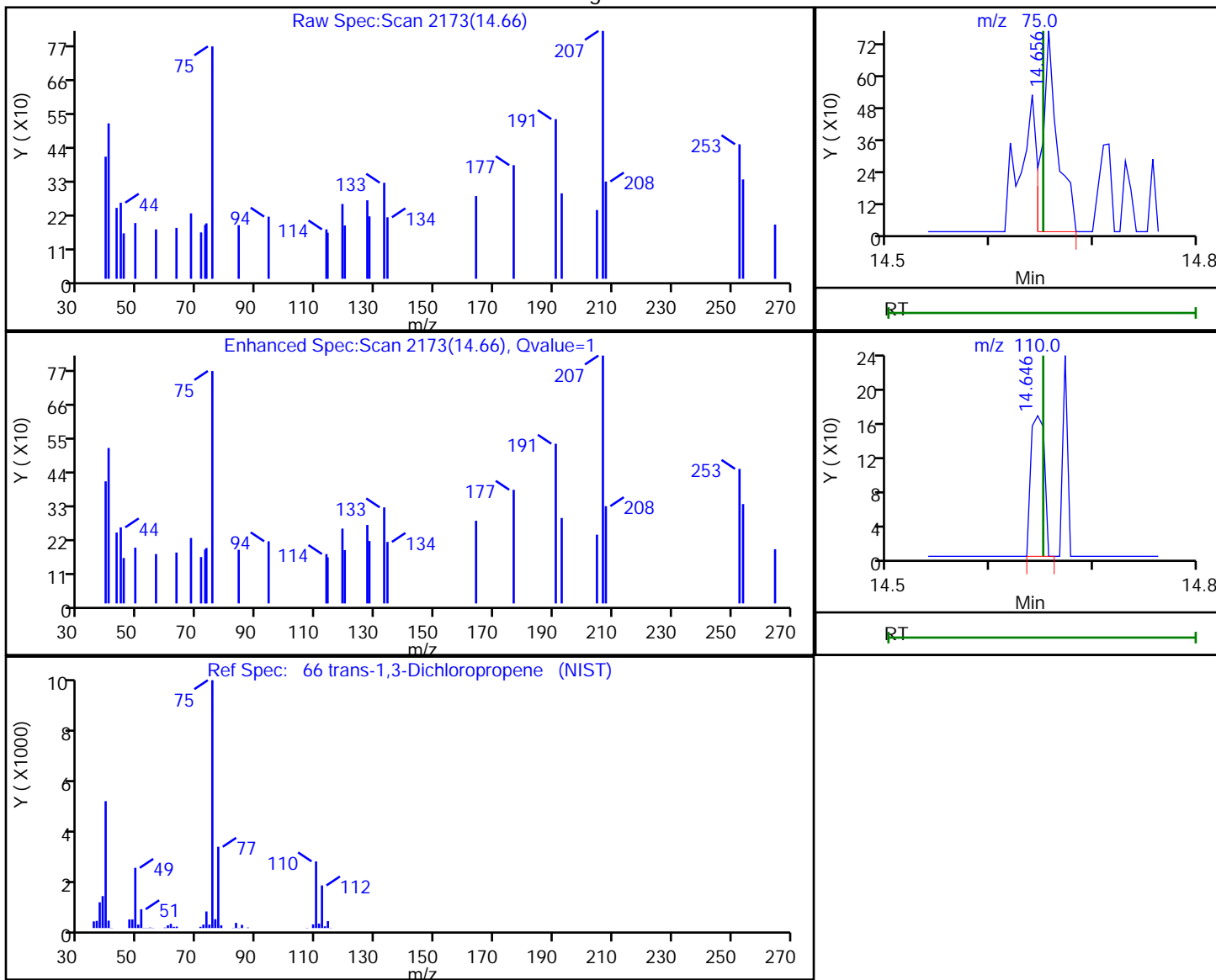
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.66 | 75.00  | 776      | 0.008180 |
| 14.65 | 110.00 | 154      |          |

Reviewer: bunmaa, 06-Dec-2018 13:01:55

Audit Action: Marked Compound Undetected

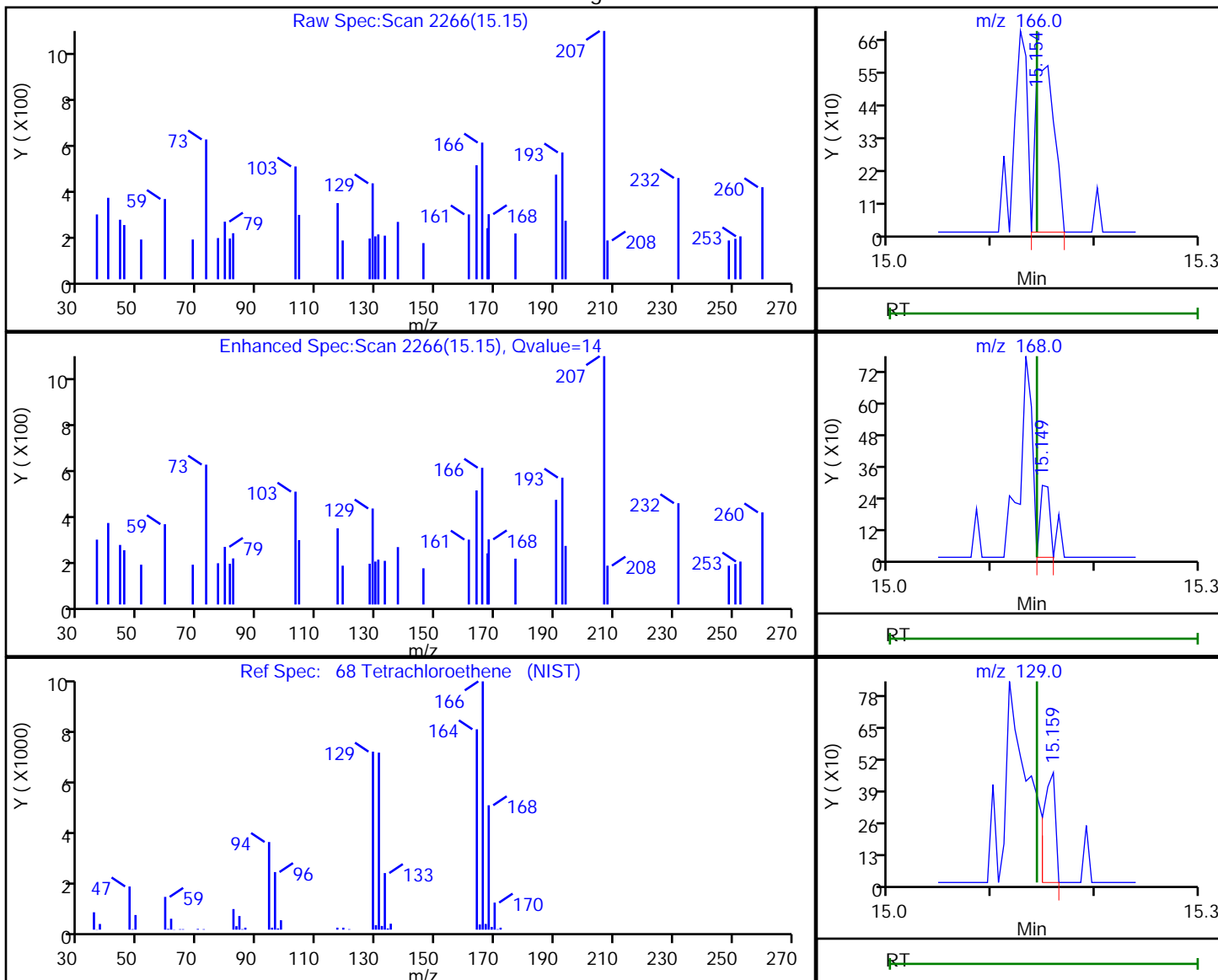
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.15 | 166.00 | 731      | 0.005318 |
| 15.15 | 168.00 | 175      |          |
| 15.16 | 129.00 | 361      |          |

Reviewer: bunmaa, 06-Dec-2018 13:02:18

Audit Action: Marked Compound Undetected

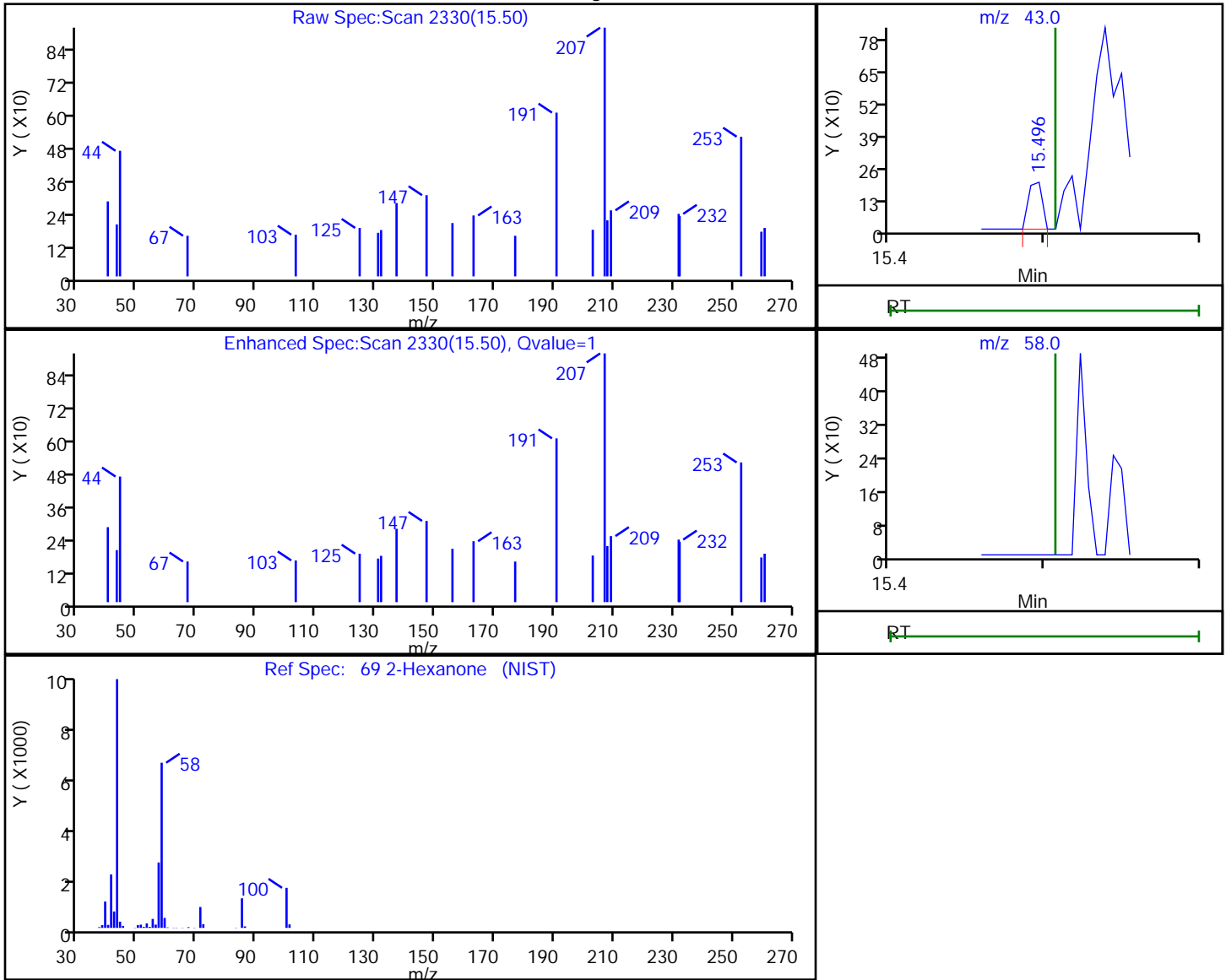
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.50 | 43.00 | 119      | 0.001179 |
| 15.51 | 58.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:02:30

Audit Action: Marked Compound Undetected

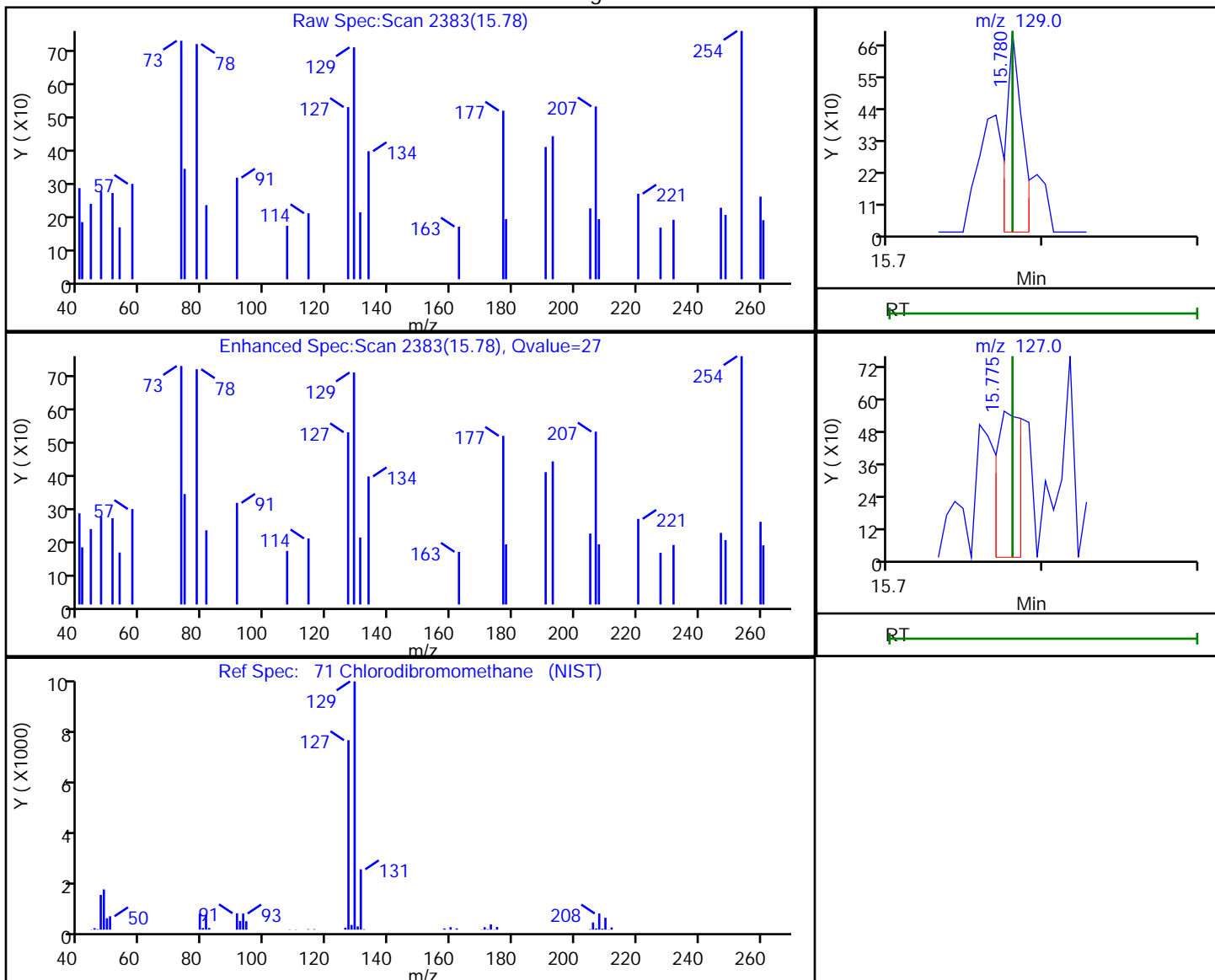
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

71 Chlorodibromomethane, CAS: 124-48-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.78 | 129.00 | 503      | 0.003029 |
| 15.77 | 127.00 | 634      |          |

Reviewer: bunmaa, 06-Dec-2018 13:02:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

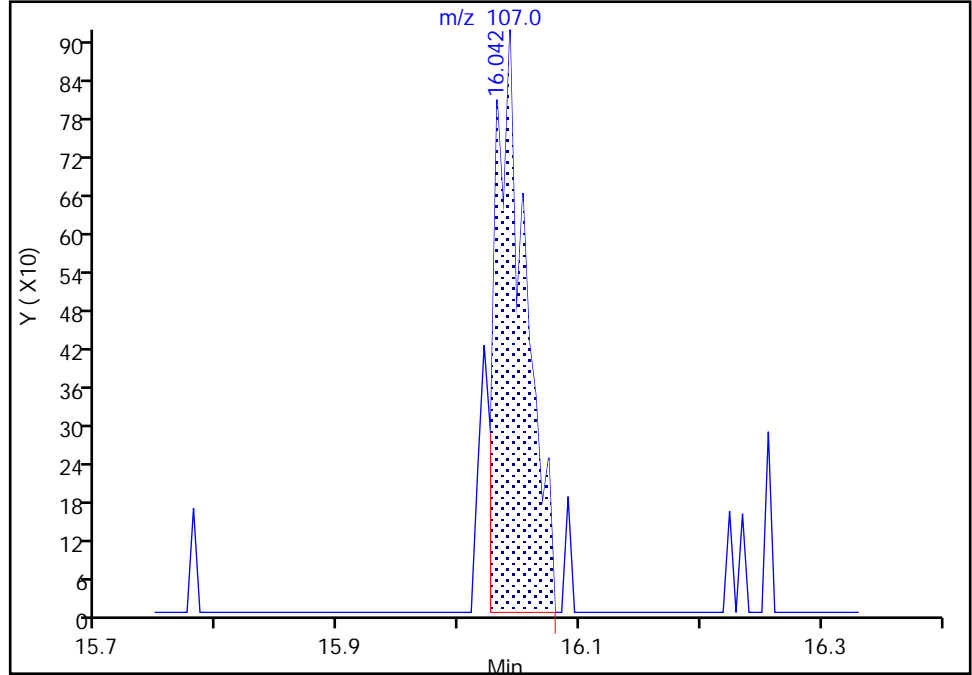
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

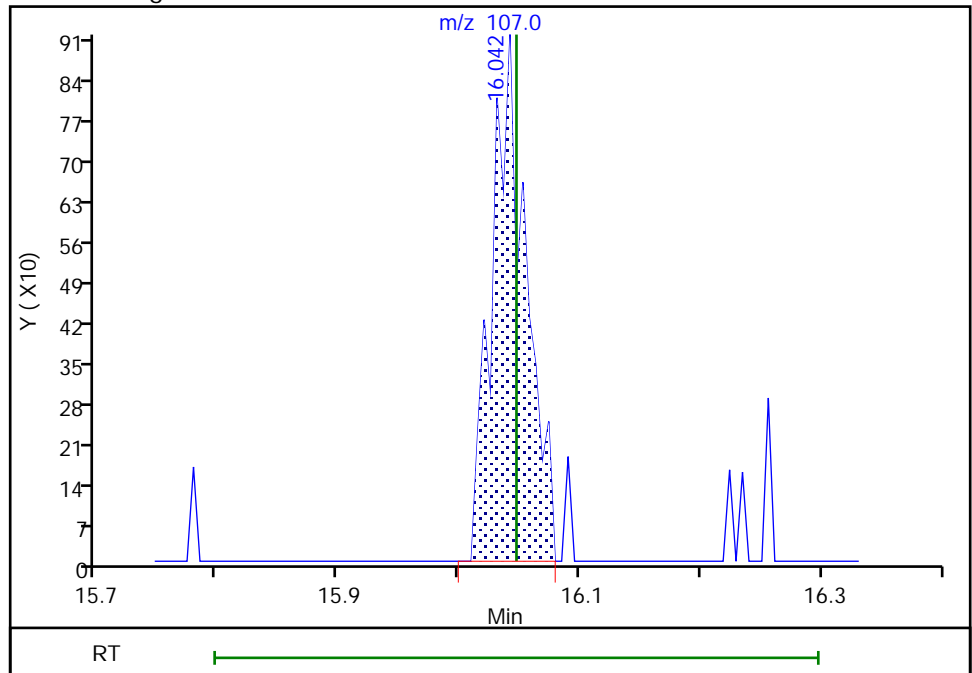
RT: 16.04  
Area: 1584  
Amount: 0.012628  
Amount Units: ppb v/v

Processing Integration Results



RT: 16.04  
Area: 1791  
Amount: 0.014278  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:02:46  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

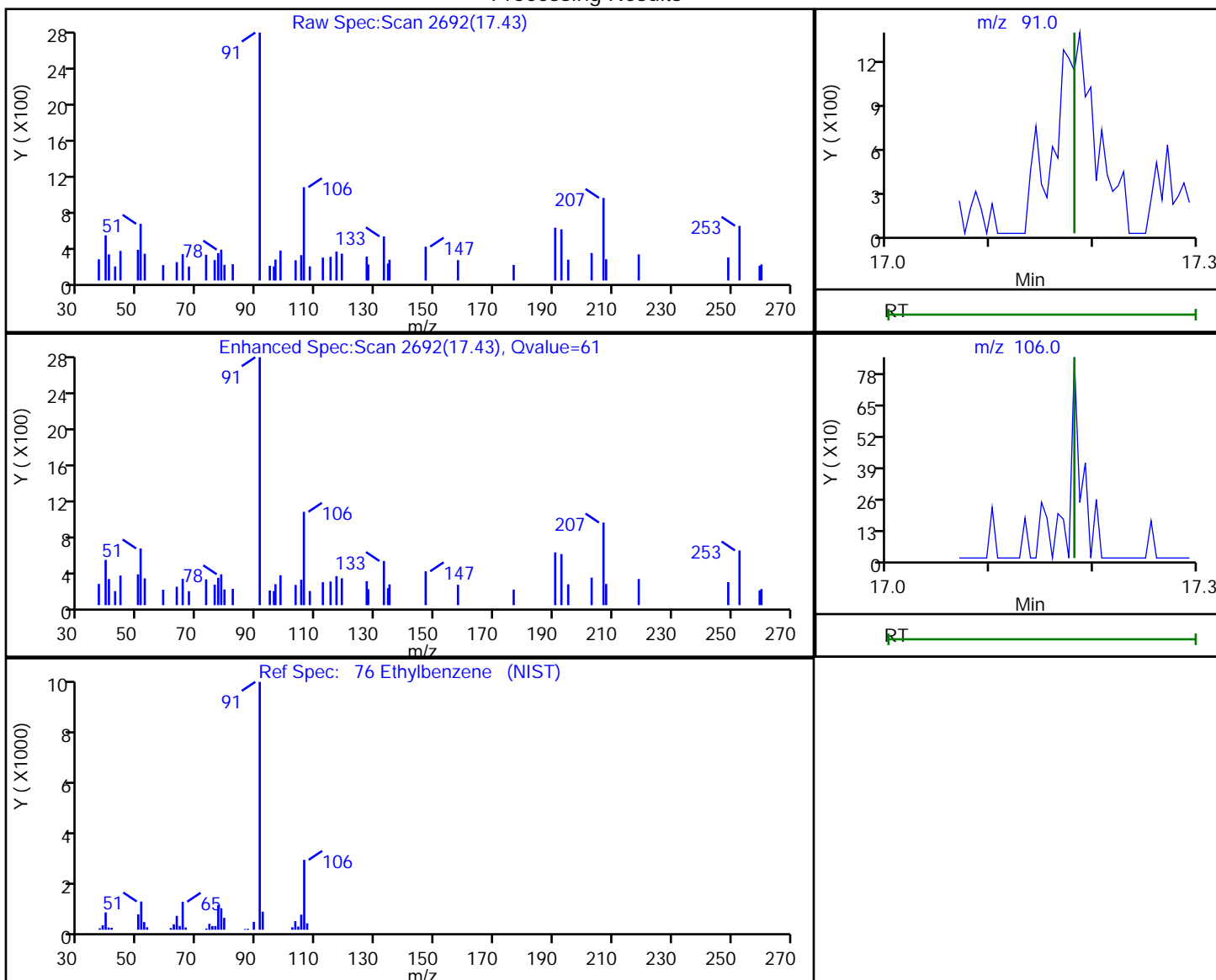


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.43 | 91.00  | 3512     | 0.013585 |
| 17.44 | 106.00 | 2485     |          |

Reviewer: bunmaa, 06-Dec-2018 13:03:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

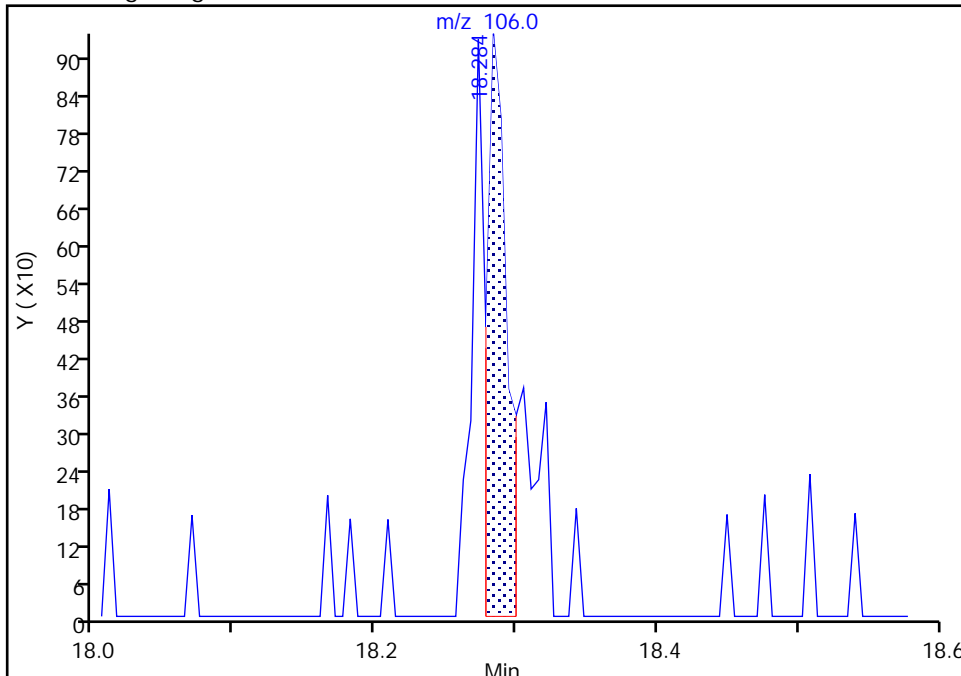
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Signal: 1

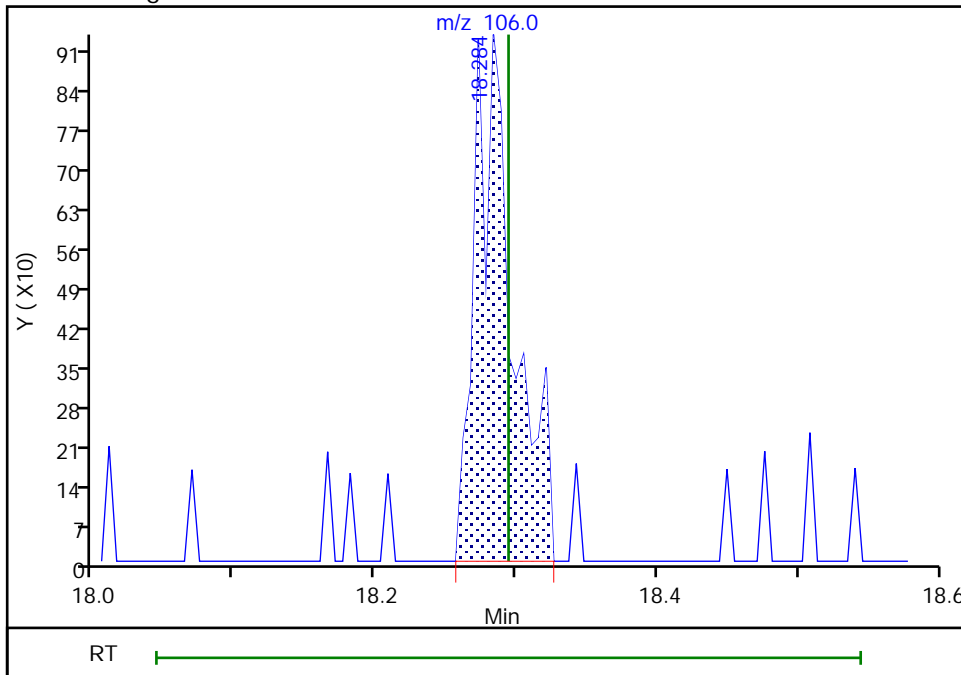
RT: 18.28  
Area: 929  
Amount: 0.009328  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.28  
Area: 1765  
Amount: 0.017722  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:03:56  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

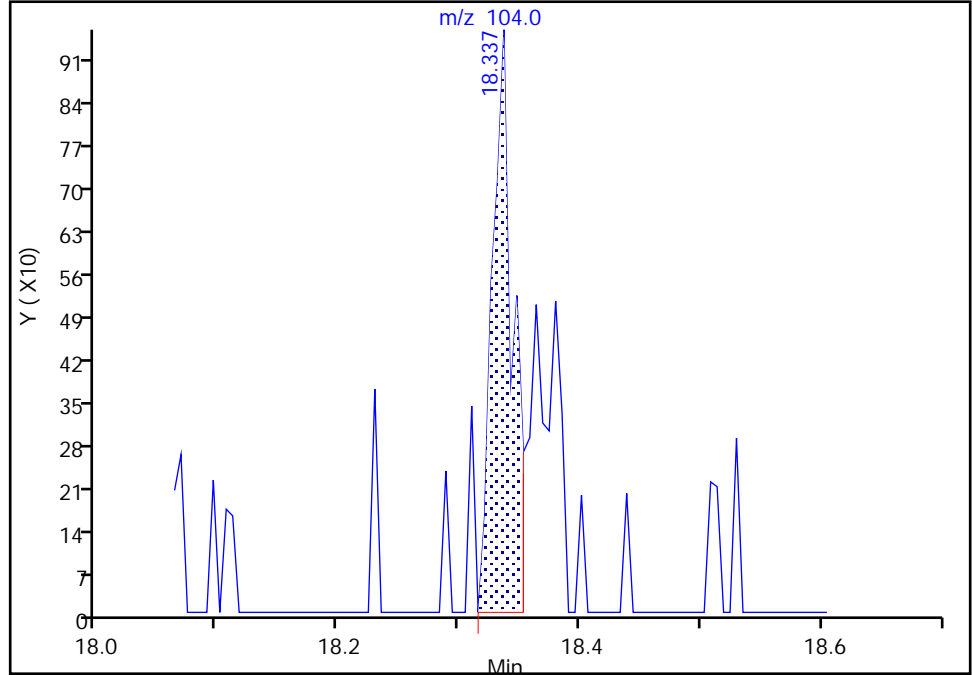
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Signal: 1

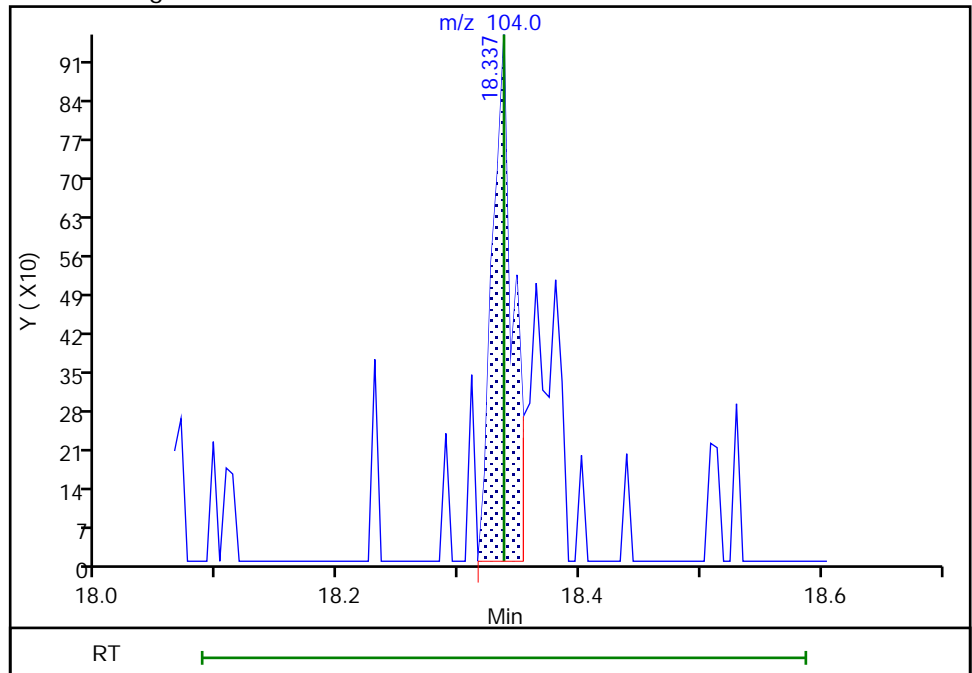
RT: 18.34  
Area: 1129  
Amount: 0.007405  
Amount Units: ppb v/v

Processing Integration Results



RT: 18.34  
Area: 1129  
Amount: 0.007405  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:04:17  
Audit Action: Assigned Compound ID

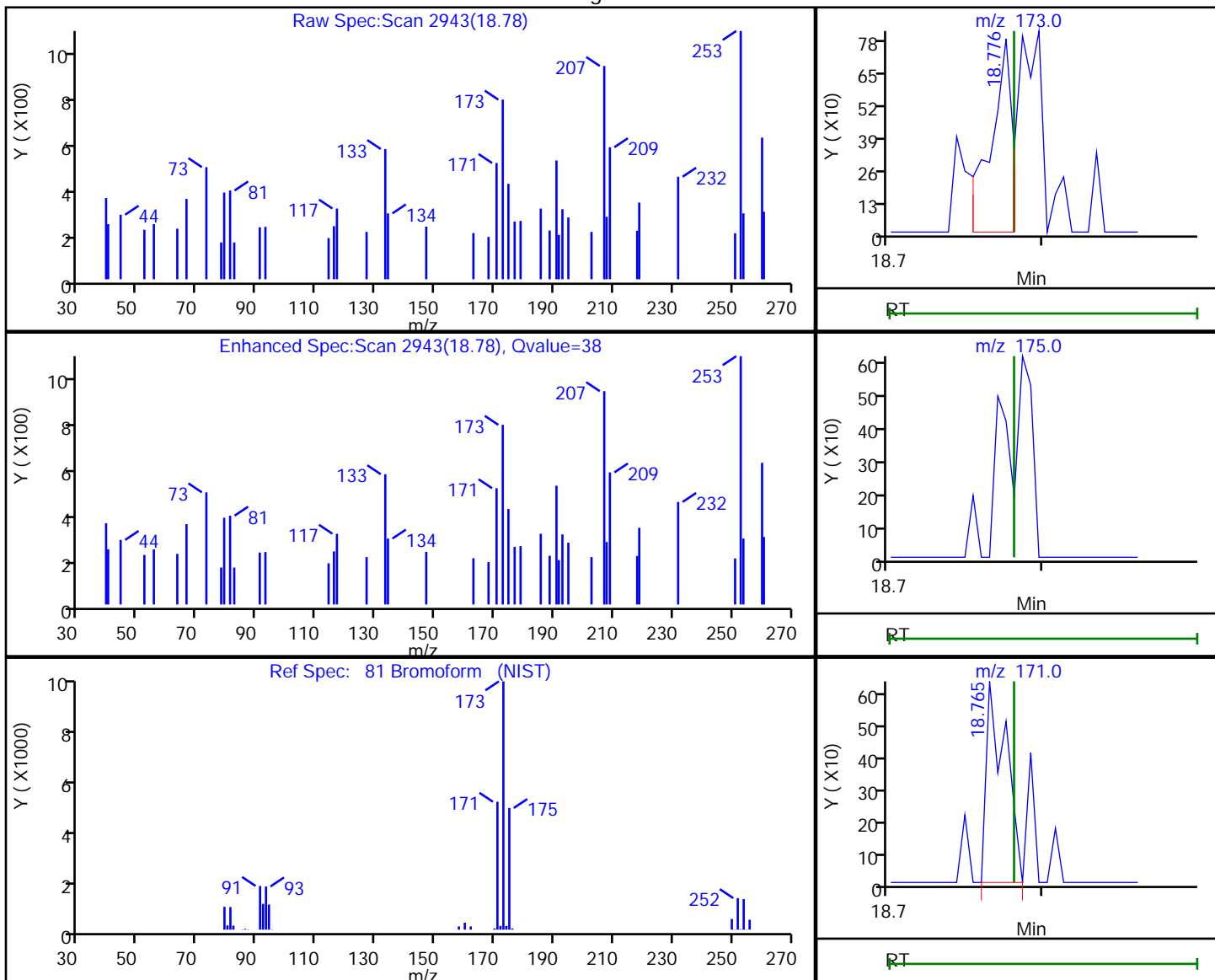
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 Bromoform, CAS: 75-25-2

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.78 | 173.00 | 776      | 0.005165 |
| 18.78 | 175.00 | 0        |          |
| 18.77 | 171.00 | 553      |          |

Reviewer: bunmaa, 06-Dec-2018 13:04:31

Audit Action: Marked Compound Undetected

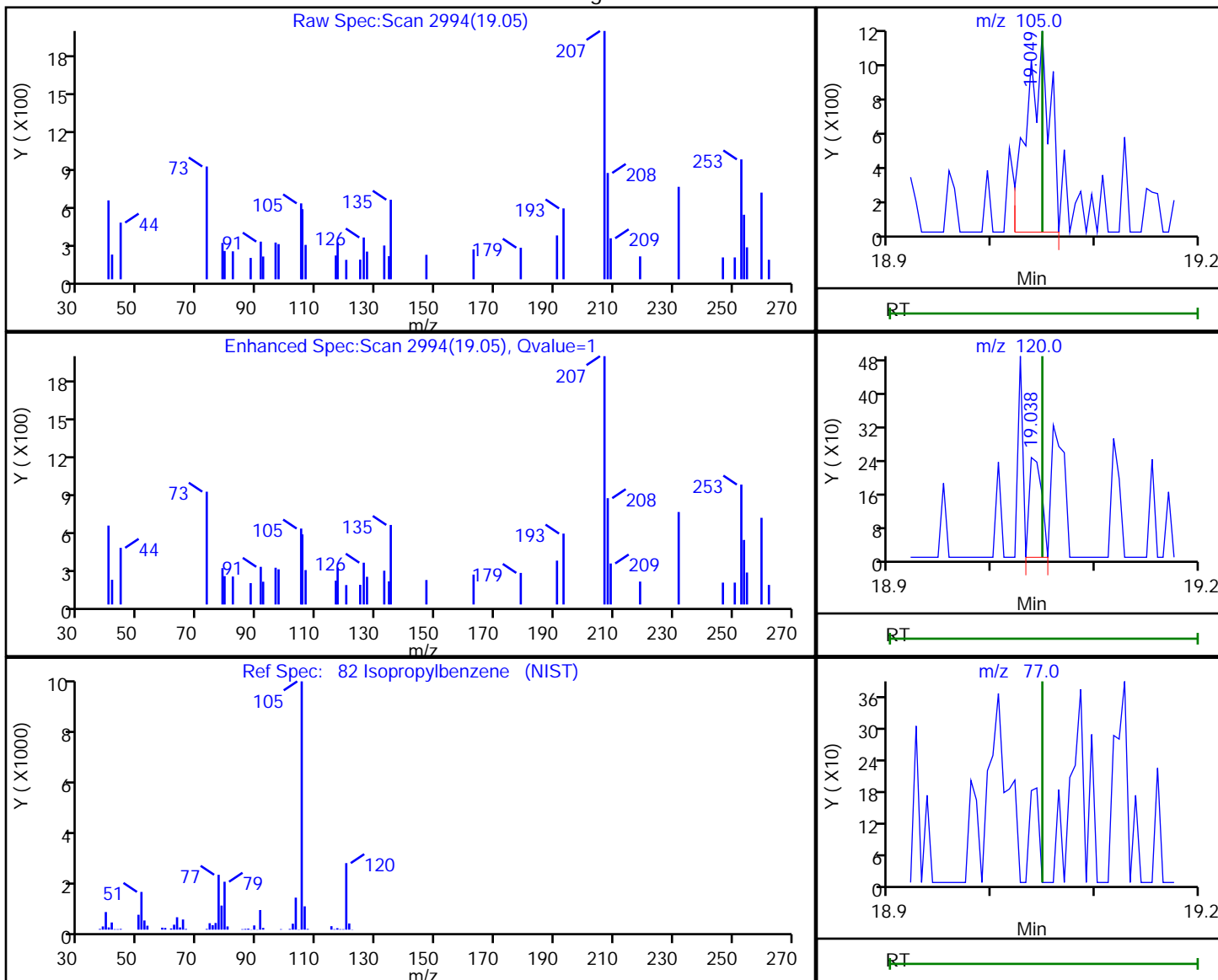
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.05 | 105.00 | 1723     | 0.005917 |
| 19.04 | 120.00 | 199      |          |
| 19.04 | 77.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:04:43

Audit Action: Marked Compound Undetected

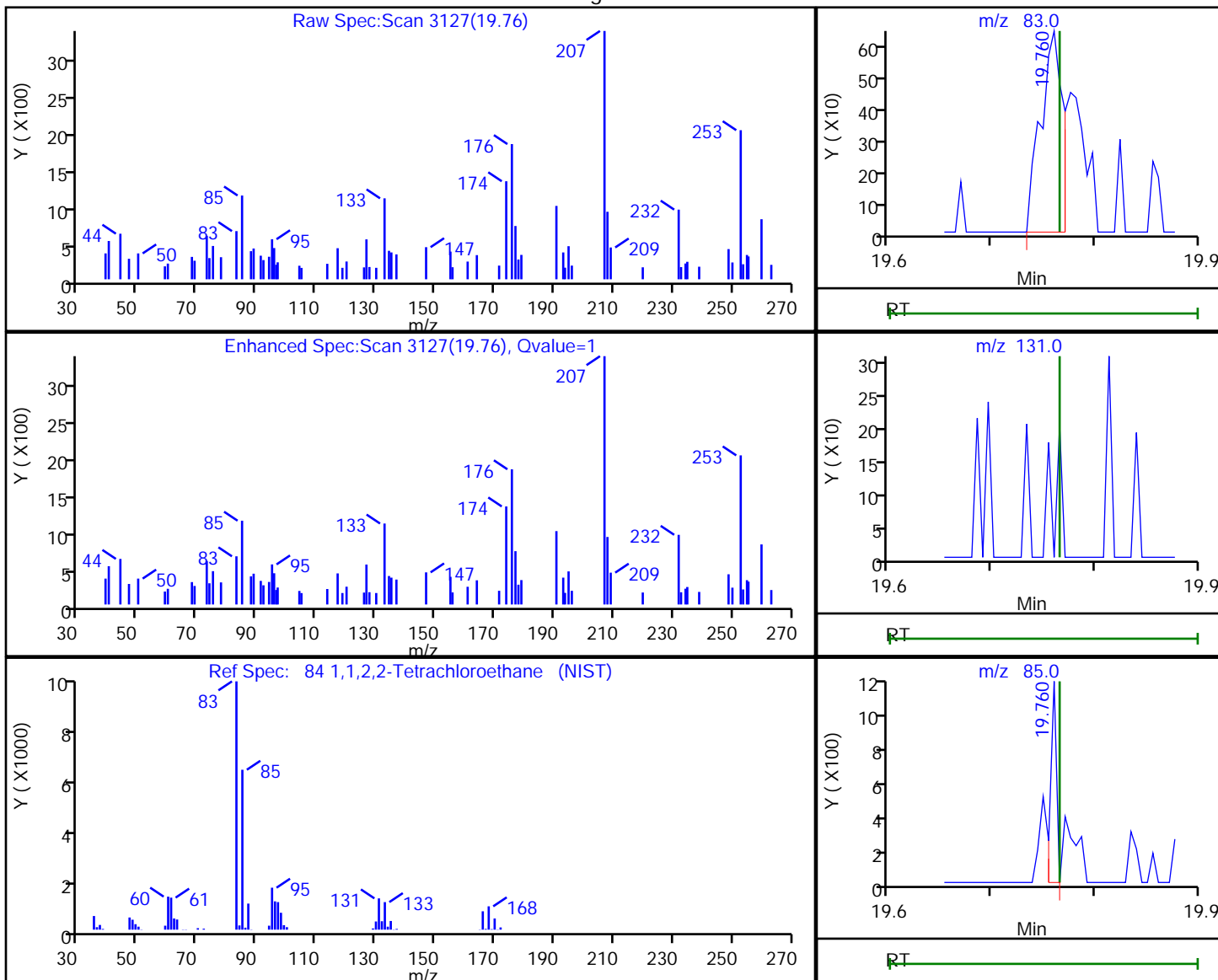
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.76 | 83.00  | 961      | 0.006048 |
| 19.77 | 131.00 | 0        |          |
| 19.76 | 85.00  | 437      |          |

Reviewer: bunmaa, 06-Dec-2018 13:04:54

Audit Action: Marked Compound Undetected

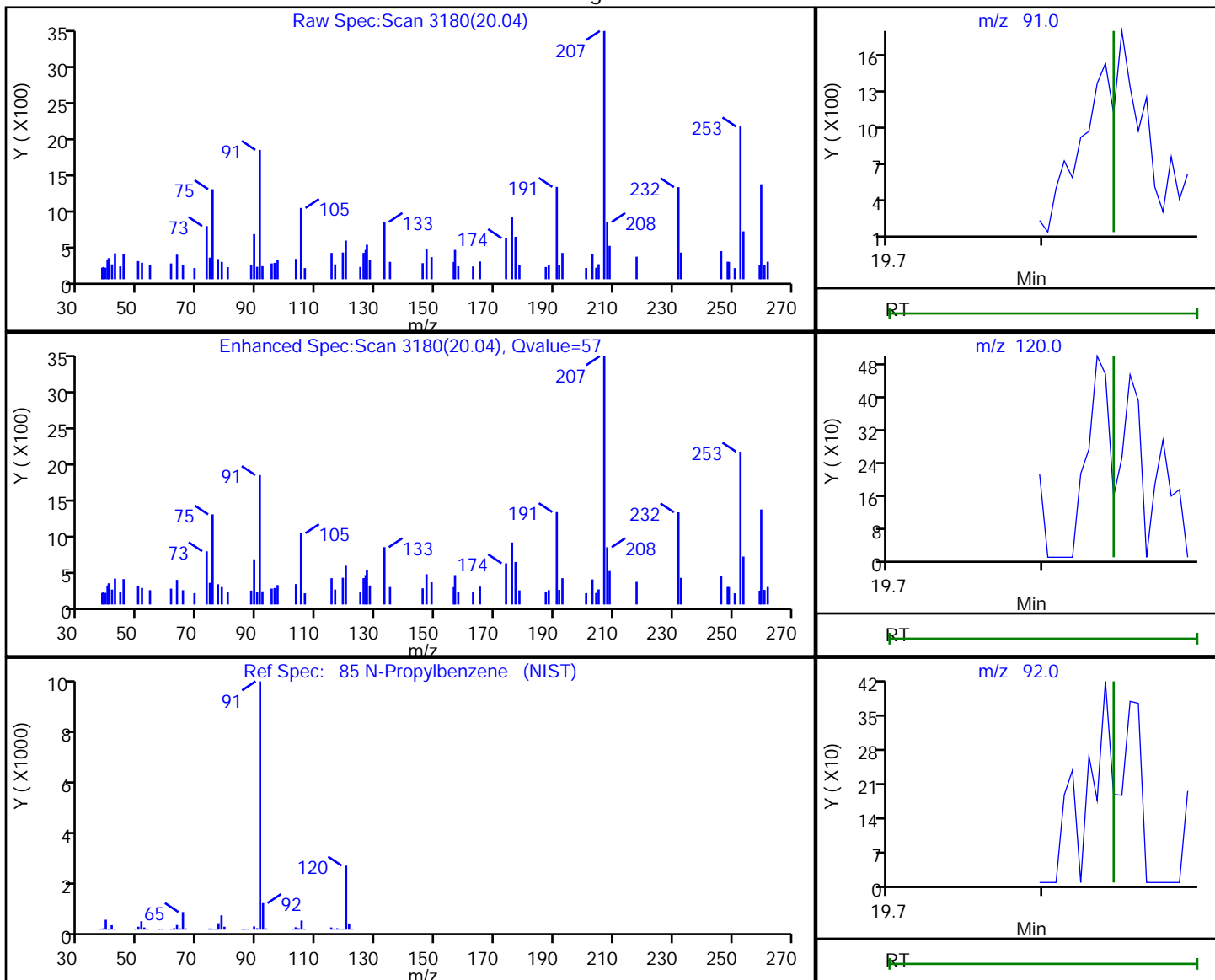
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.04 | 91.00  | 767      | 0.002212 |
| 20.04 | 120.00 | 478      |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:05:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

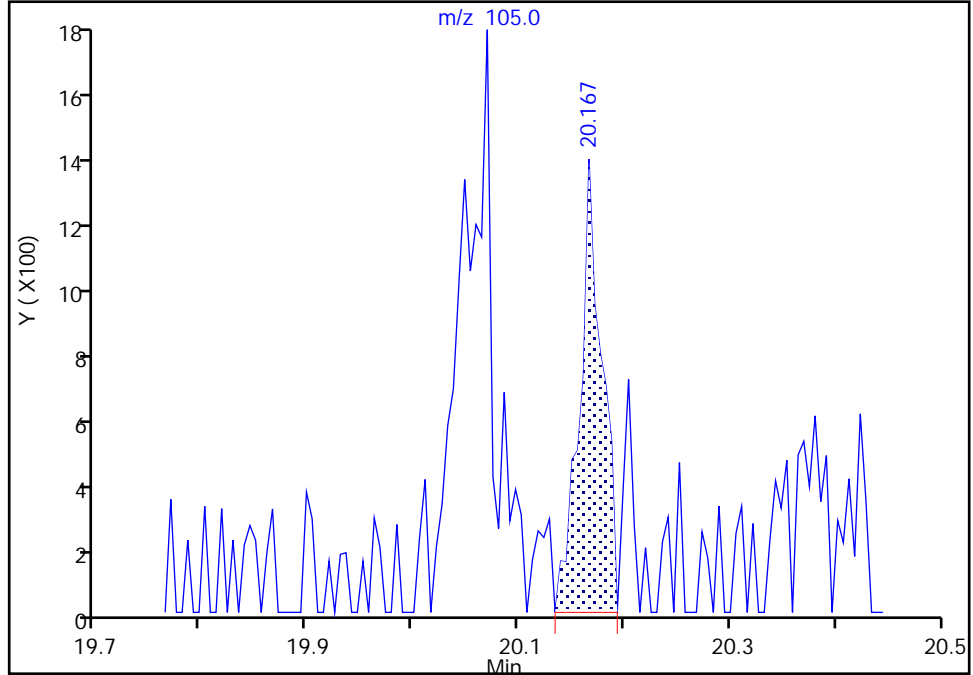
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

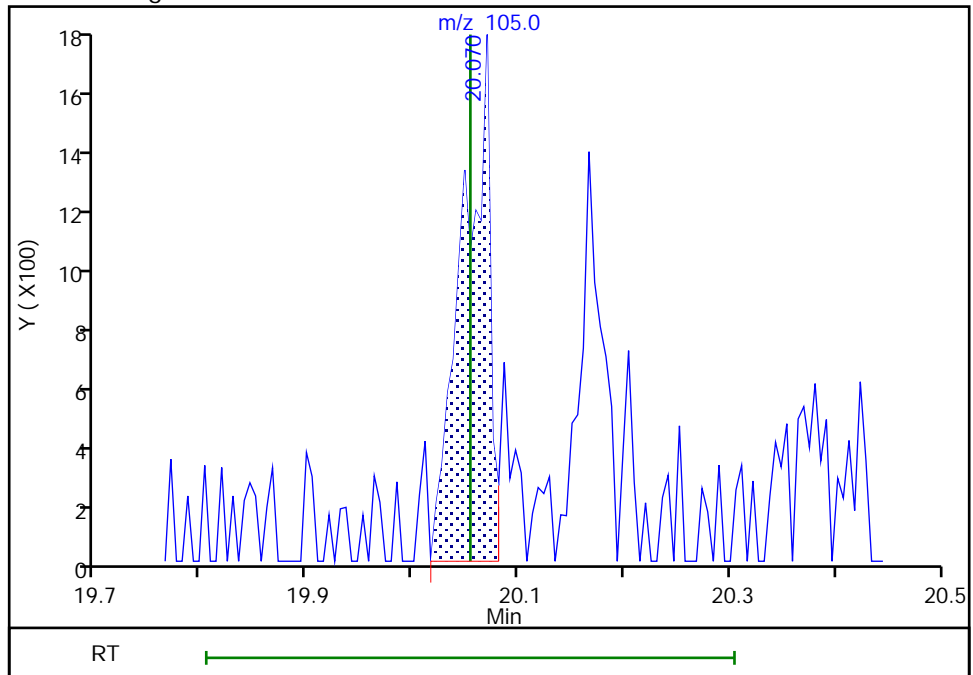
RT: 20.17  
Area: 2006  
Amount: 0.006795  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.07  
Area: 3153  
Amount: 0.010681  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:06:09  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

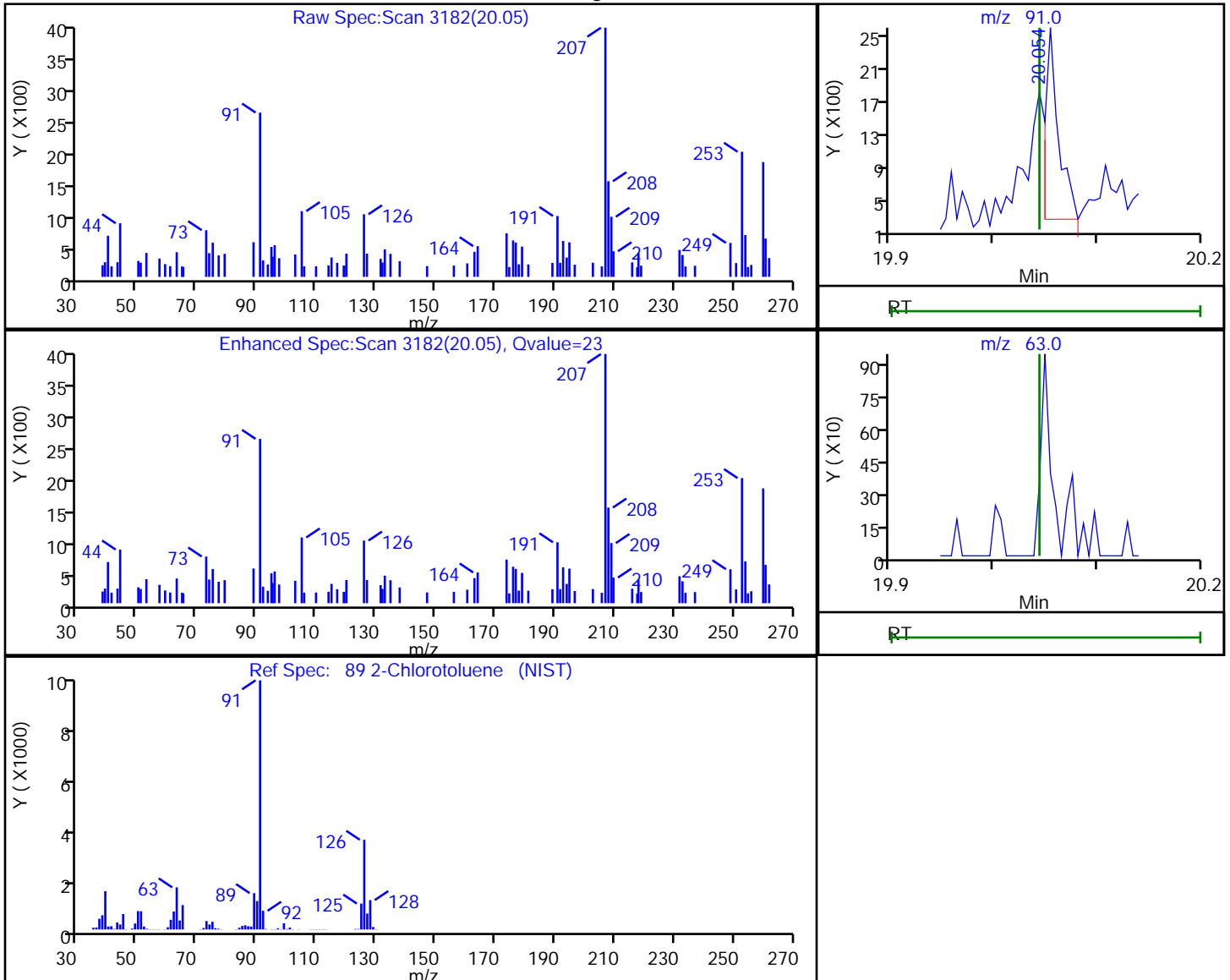


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.05 | 91.00 | 1977     | 0.007549 |
| 20.05 | 63.00 | 0        |          |

Reviewer: bunmaa, 06-Dec-2018 13:05:31

Audit Action: Marked Compound Undetected

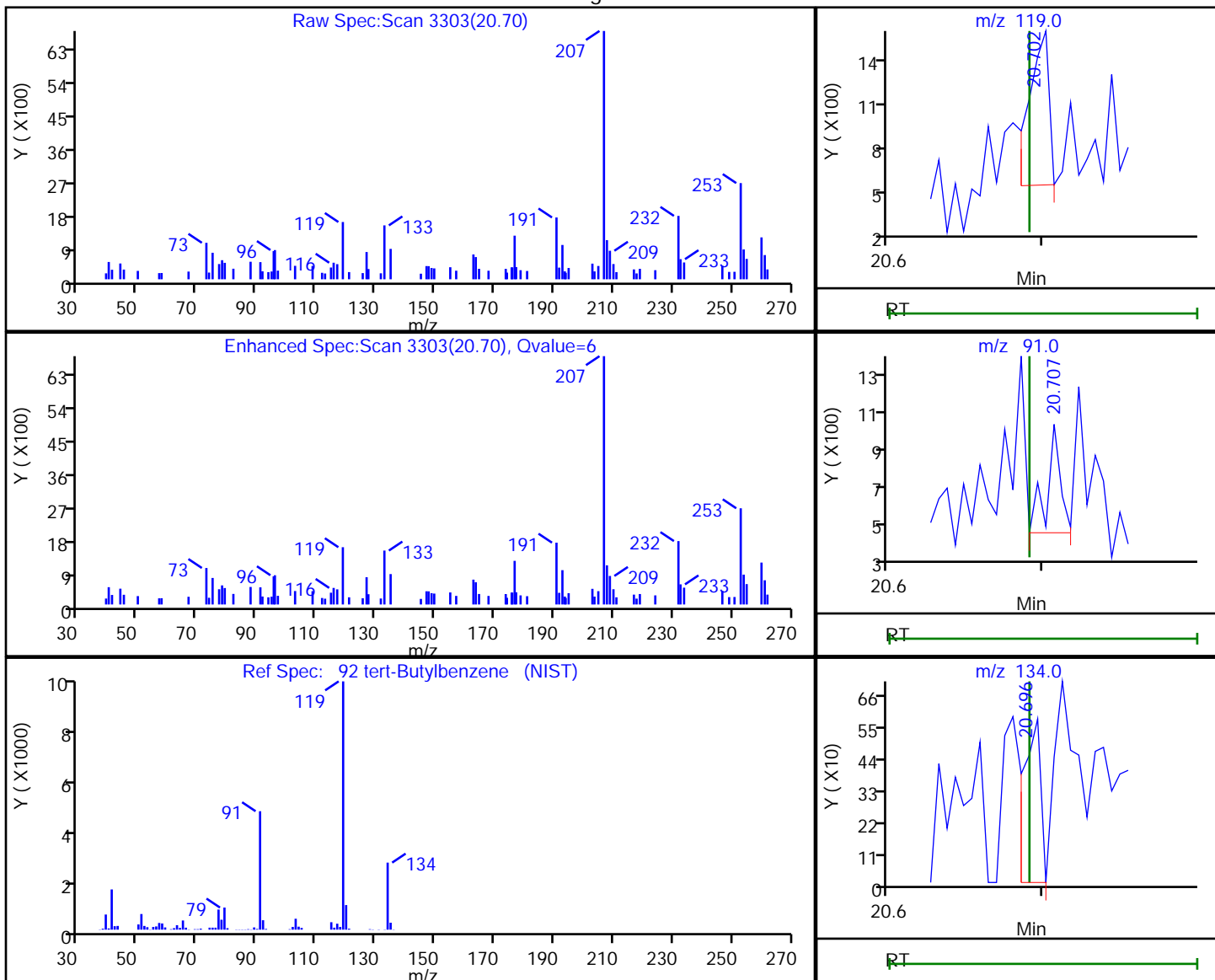
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.70 | 119.00 | 872      | 0.003691 |
| 20.71 | 91.00  | 344      |          |
| 20.70 | 134.00 | 447      |          |

Reviewer: bunmaa, 06-Dec-2018 13:06:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

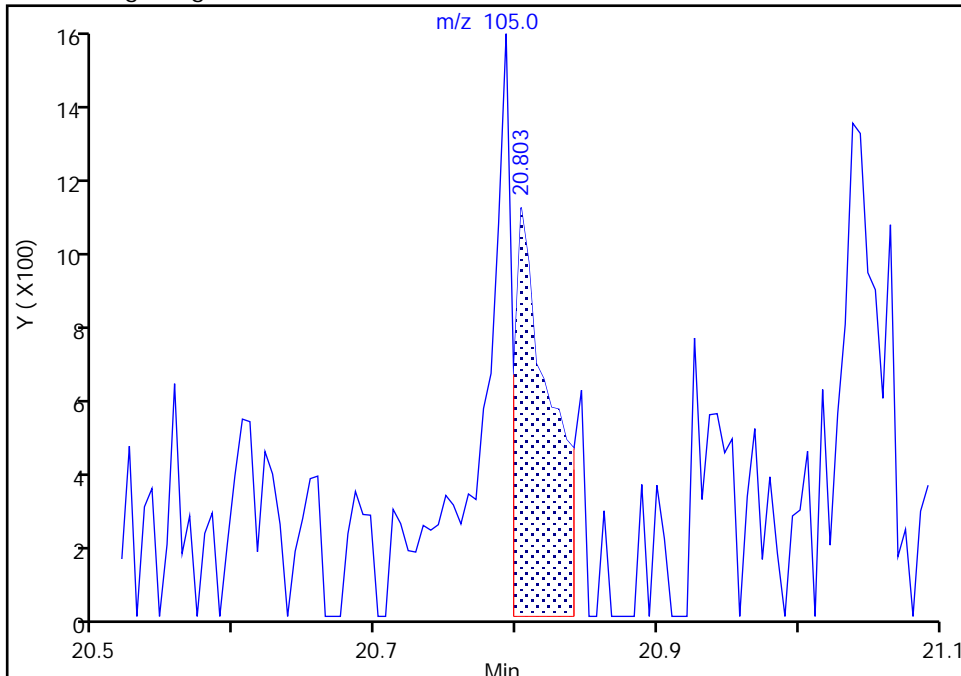
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

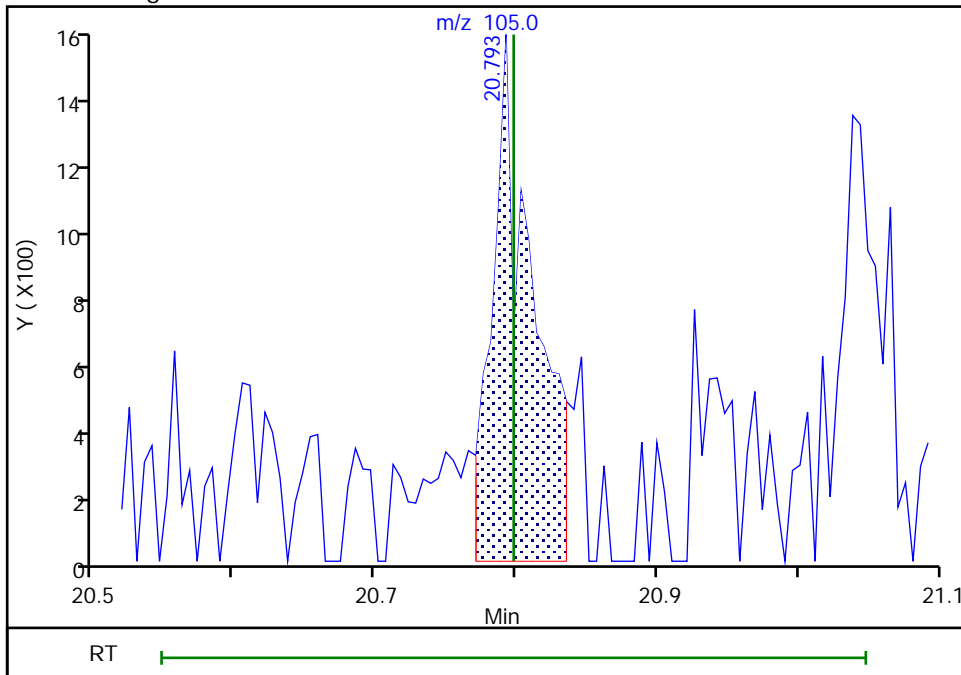
RT: 20.80  
Area: 1982  
Amount: 0.007954  
Amount Units: ppb v/v

Processing Integration Results



RT: 20.79  
Area: 3191  
Amount: 0.012806  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:07:07  
Audit Action: Manually Integrated

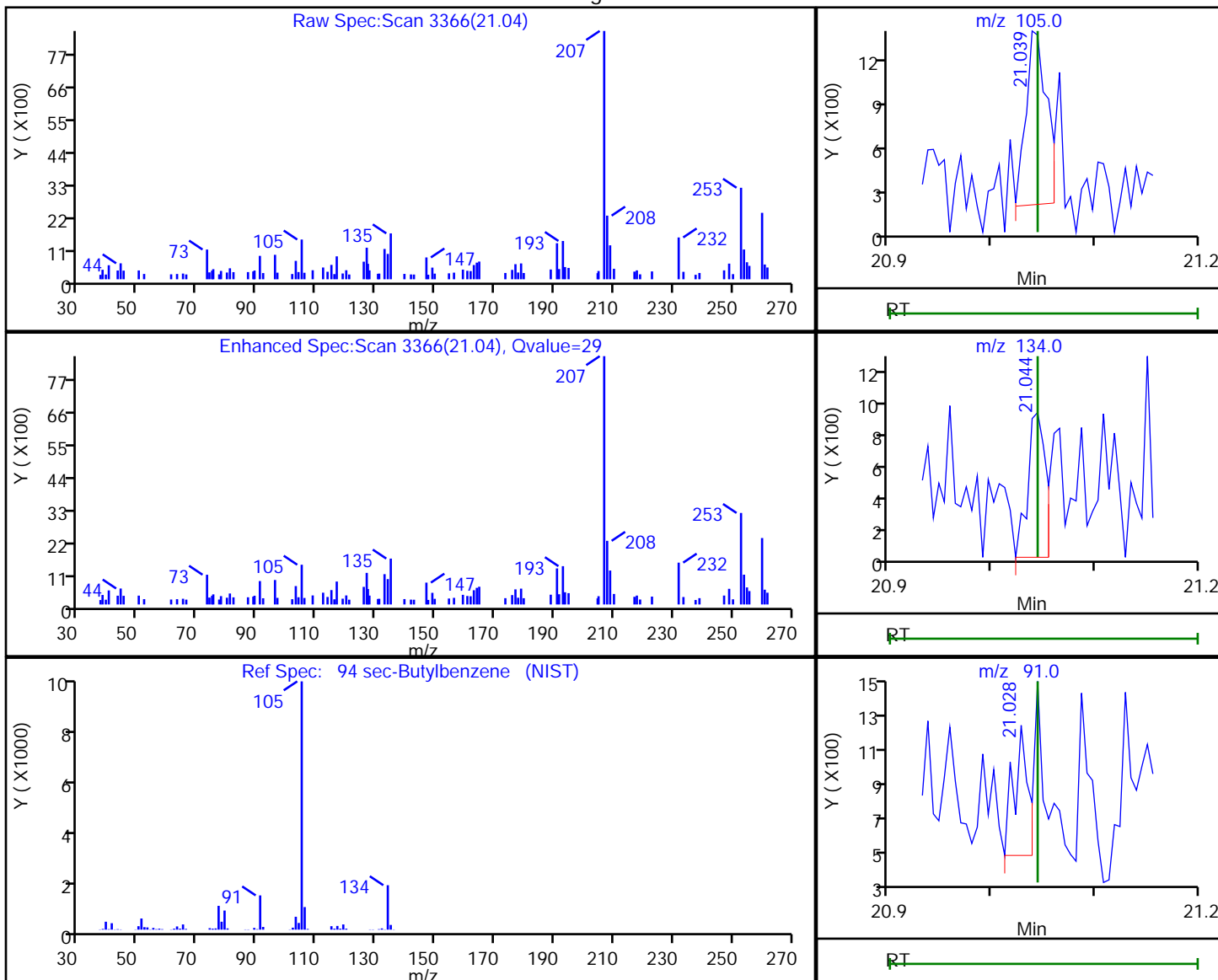
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.04 | 105.00 | 1661     | 0.004741 |
| 21.04 | 134.00 | 1097     |          |
| 21.03 | 91.00  | 629      |          |

Reviewer: bunmaa, 06-Dec-2018 13:07:35

Audit Action: Marked Compound Undetected

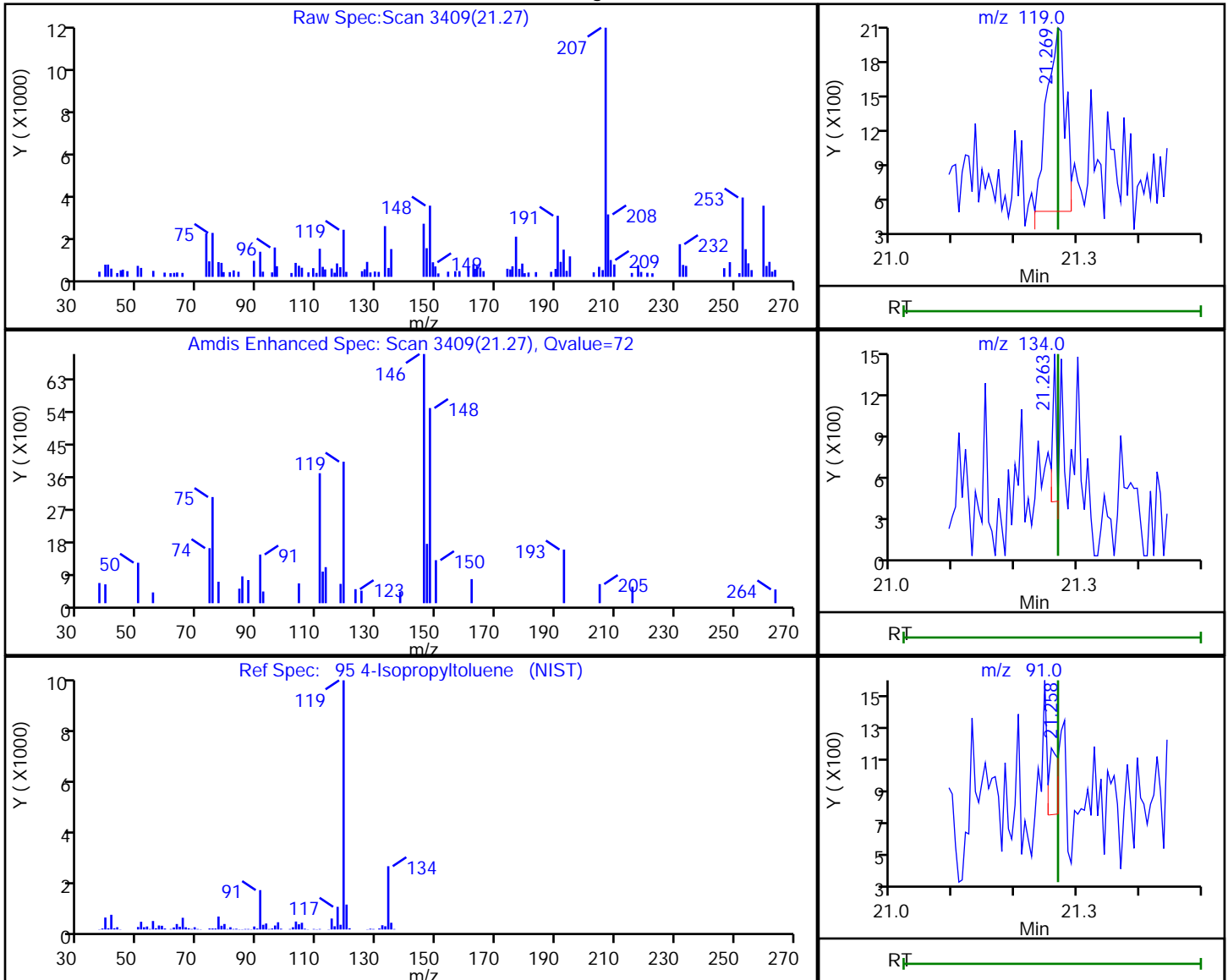
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.27 | 119.00 | 3311     | 0.011027 |
| 21.26 | 134.00 | 421      |          |
| 21.26 | 91.00  | 398      |          |

Reviewer: bunmaa, 06-Dec-2018 13:07:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

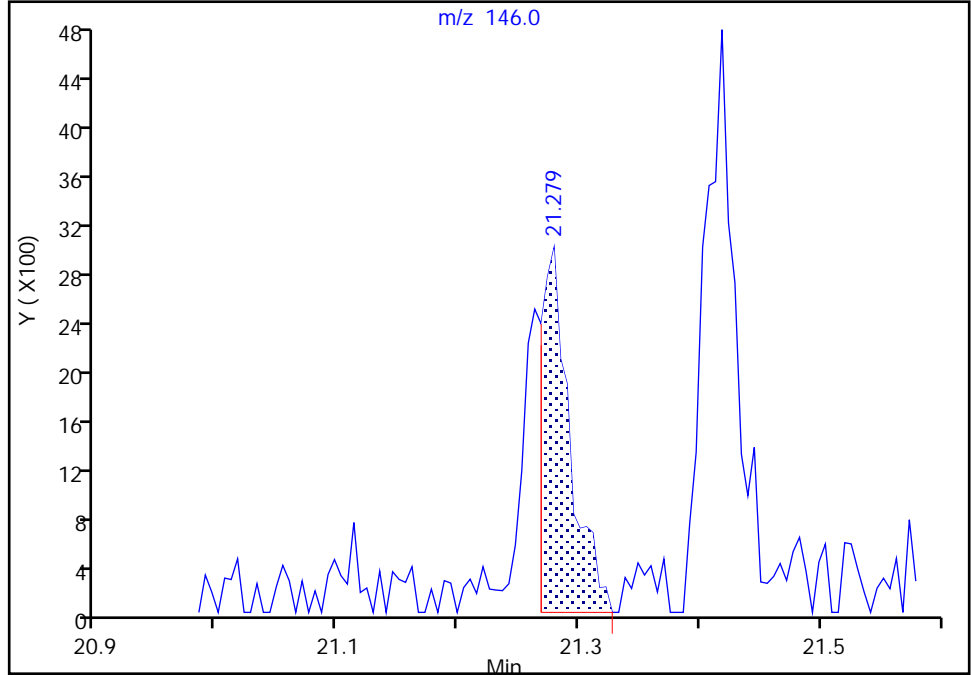
Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

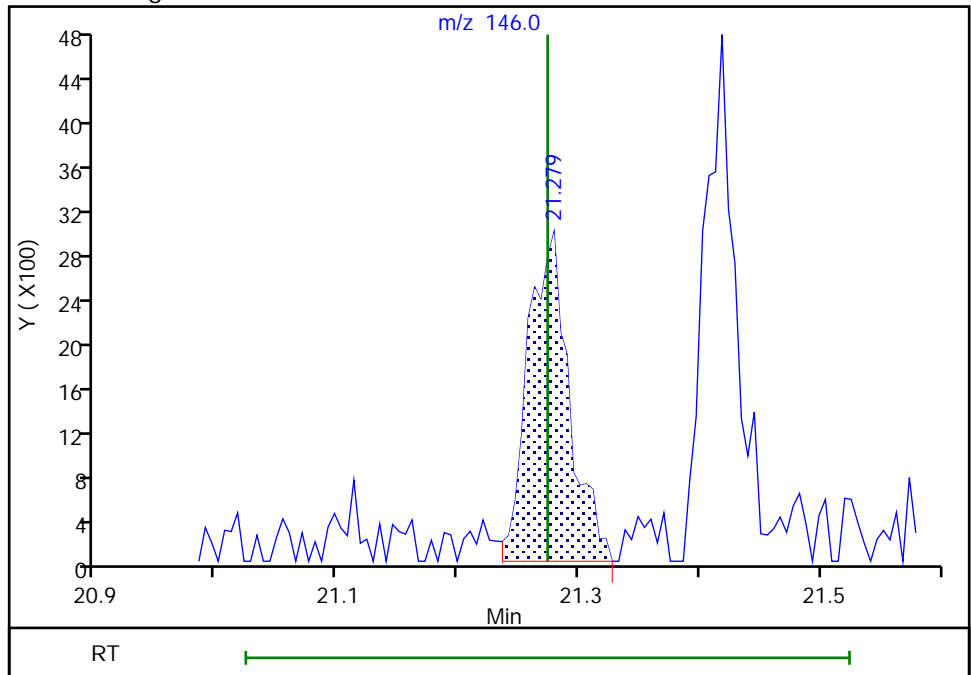
RT: 21.28  
Area: 4914  
Amount: 0.024332  
Amount Units: ppb v/v

Processing Integration Results



RT: 21.28  
Area: 7102  
Amount: 0.035166  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 06-Dec-2018 13:07:52  
Audit Action: Manually Integrated

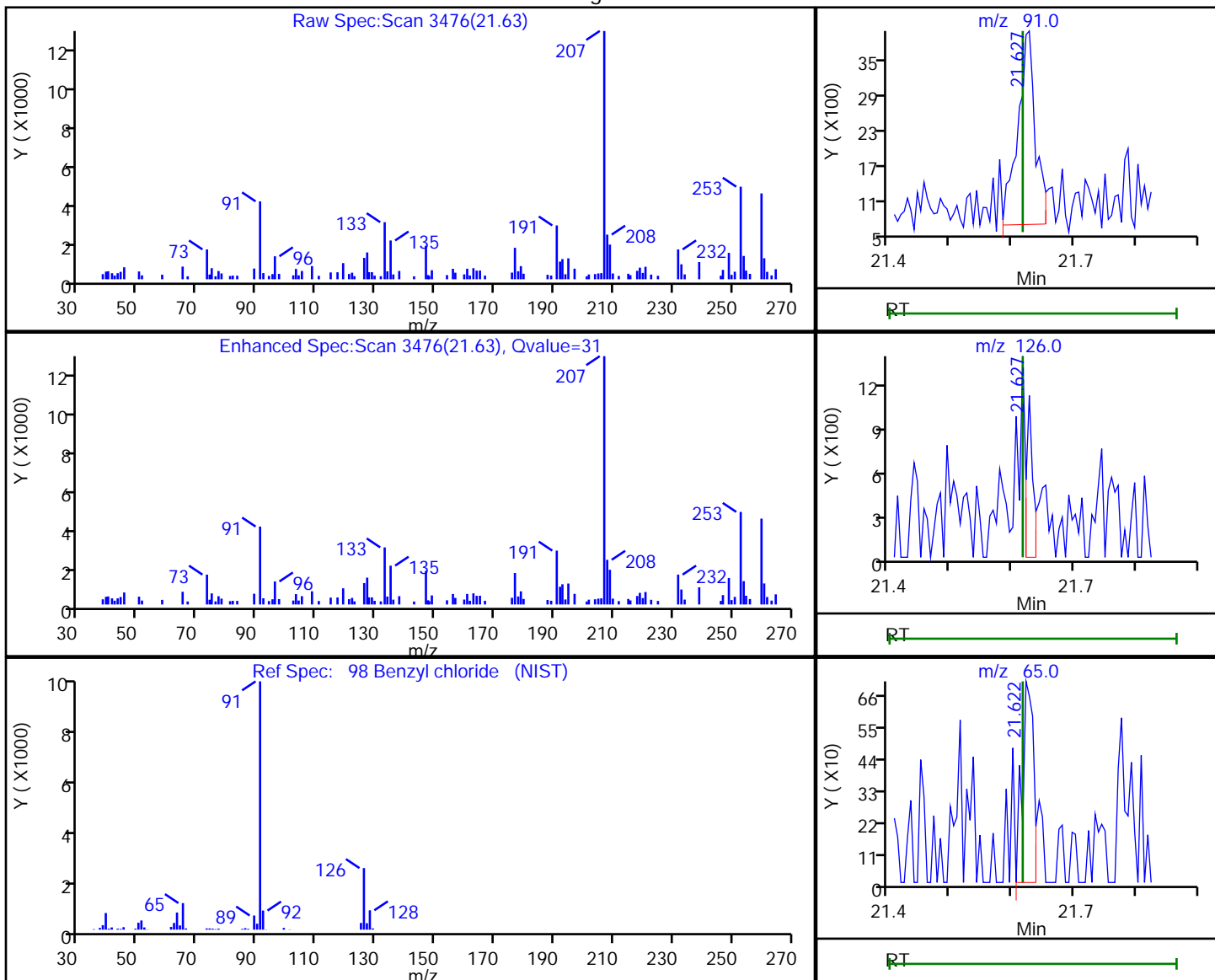
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.63 | 91.00  | 6575     | 0.027581 |
| 21.63 | 126.00 | 789      |          |
| 21.62 | 65.00  | 878      |          |

Reviewer: bunmaa, 06-Dec-2018 13:08:22

Audit Action: Marked Compound Undetected

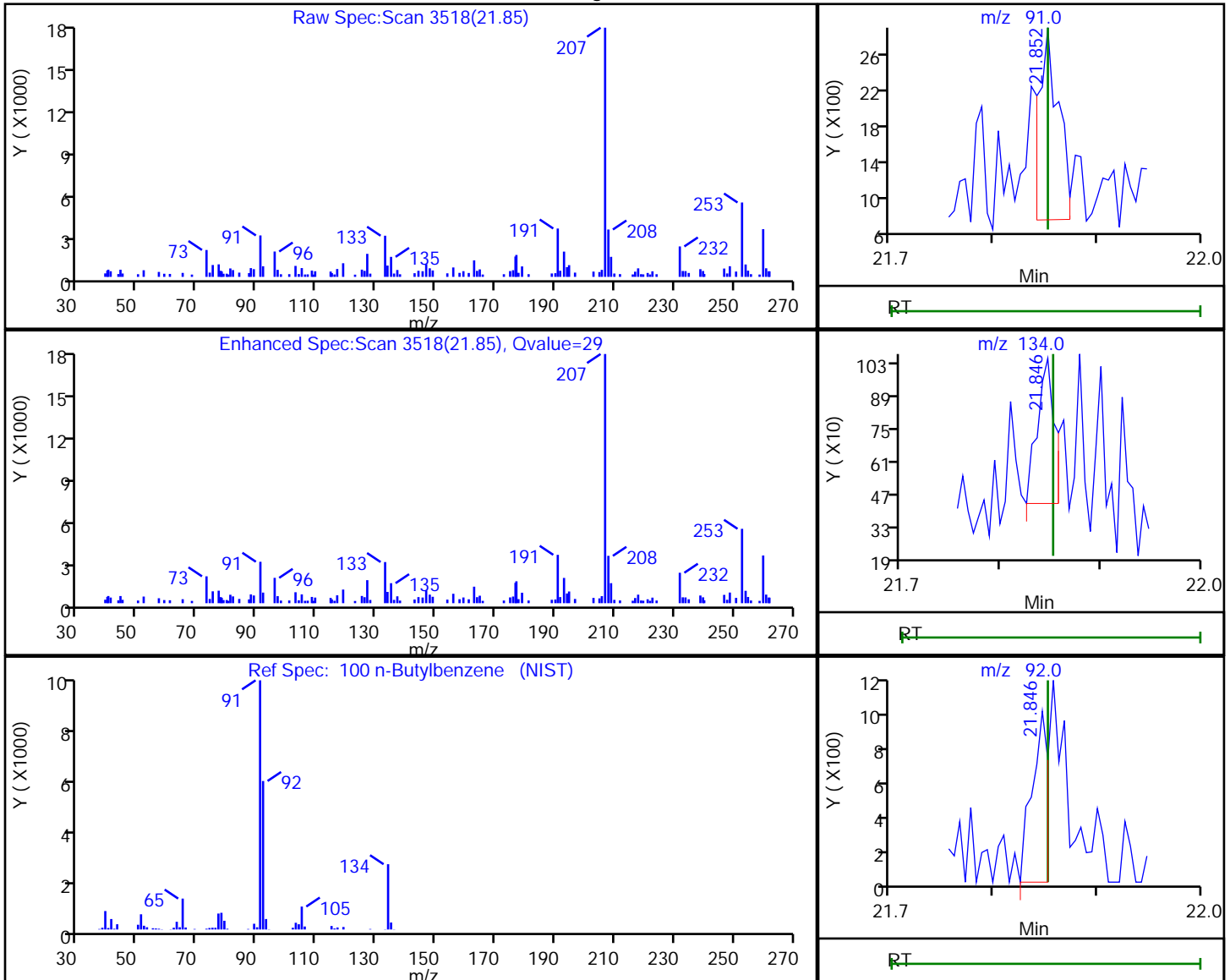
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
 Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 2808     | 0.010258 |
| 21.85 | 134.00 | 761      |          |
| 21.85 | 92.00  | 1090     |          |

Reviewer: bunmaa, 06-Dec-2018 13:08:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

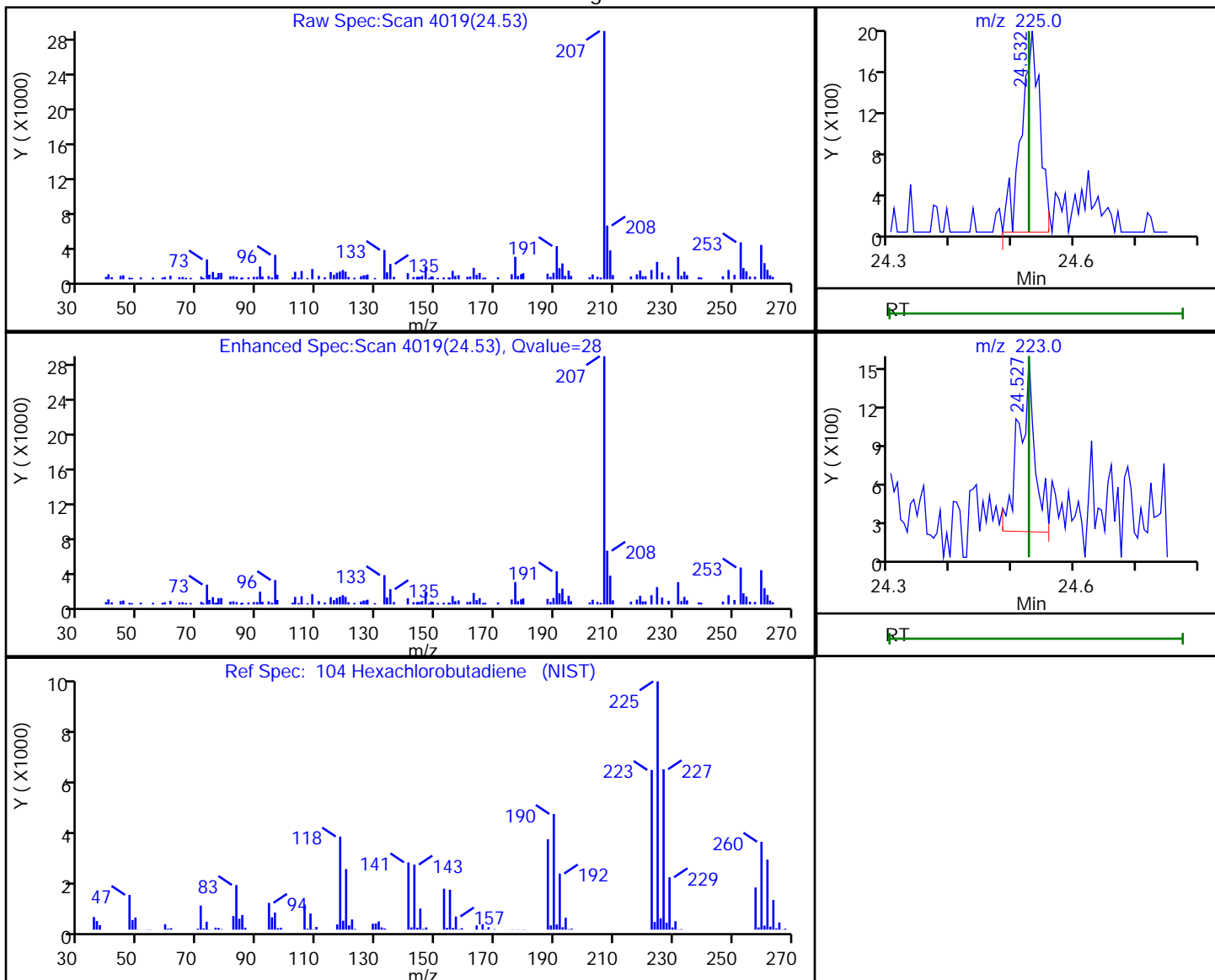


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-005.D  
Injection Date: 05-Dec-2018 17:29:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.53 | 225.00 | 4138     | 0.029818 |
| 24.53 | 223.00 | 2442     |          |

Reviewer: bunmaa, 06-Dec-2018 13:08:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.50   | U | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.50   | U | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 0.50   | U | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.20   | U | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 5.0    | U | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.20   | U | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.50   | U | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.20   | U | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.035  | U | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.20   | U | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.20   | U | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    | U | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.0    | U | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 1.2    | U | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.1    | U | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 12     | U | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 0.70   | U | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.5    | U | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.69   | U | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.22   | U | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.64   | U | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 0.75   | U | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137867/5  
 Matrix: Air Lab File ID: 200-33558-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 17:33  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 06-Dec-2018 17:33:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-005  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 15:53:05 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0310

First Level Reviewer: puangmaleek

Date: 07-Dec-2018 15:53:05

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|----------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  |           | 3.096         |                |     |          | ND              | ND                | U     |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.149         | -0.005         | 87  | 8372     | 10.0            | 0.0427            |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |                |     |          | ND              | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.347         |                |     |          | ND              | ND                |       |
| 5 Chloromethane               | 50  |           | 3.459         |                |     |          | ND              | ND                | U     |
| 6 Butane                      | 43  |           | 3.604         |                |     |          | ND              | ND                |       |
| 7 Vinyl chloride              | 62  |           | 3.641         |                |     |          | ND              | ND                | U     |
| 8 Butadiene                   | 54  |           | 3.695         |                |     |          | ND              | ND                | U     |
| 10 Bromomethane               | 94  |           | 4.208         |                |     |          | ND              | ND                | U     |
| 11 Chloroethane               | 64  |           | 4.380         |                |     |          | ND              | ND                |       |
| 12 2-Methylbutane             | 43  |           | 4.438         |                |     |          | ND              | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.685         |                |     |          | ND              | ND                | U     |
| 14 Trichlorofluoromethane     | 101 |           | 4.759         |                |     |          | ND              | ND                | U     |
| 16 Pentane                    | 43  |           | 4.866         |                |     |          | ND              | ND                |       |
| 17 Ethanol                    | 45  |           | 5.203         |                |     |          | ND              | ND                | U     |
| 18 Ethyl ether                | 59  |           | 5.284         |                |     |          | ND              | ND                |       |
| 19 Acrolein                   | 56  |           | 5.589         |                |     |          | ND              | ND                | U     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.605         |                |     |          | ND              | ND                | U     |
| 21 1,1-Dichloroethene         | 96  |           | 5.658         |                |     |          | ND              | ND                | U     |
| 22 Acetone                    | 43  | 5.883     | 5.856         | 0.027          | 100 | 57010    | 10.0            | 1.39              |       |
| 23 Carbon disulfide           | 76  |           | 6.017         |                |     |          | ND              | ND                | U     |
| 24 Isopropyl alcohol          | 45  |           | 6.092         |                |     |          | ND              | ND                | U     |
| 25 3-Chloro-1-propene         | 41  |           | 6.306         |                |     |          | ND              | ND                | U     |
| 26 Acetonitrile               | 41  |           | 6.418         |                |     |          | ND              | ND                | U     |
| 27 Methylene Chloride         | 49  | 6.562     | 6.562         | 0.005          | 54  | 2572     | 10.0            | 0.0593            | 7M    |
| 28 2-Methyl-2-propanol        | 59  |           | 6.766         |                |     |          | ND              | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.937         |                |     |          | ND              | ND                | U     |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.947         |                |     |          | ND              | ND                | U     |
| 32 Acrylonitrile              | 53  |           | 7.071         |                |     |          | ND              | ND                | U     |
| 33 Hexane                     | 57  |           | 7.290         |                |     |          | ND              | ND                | U     |
| 34 1,1-Dichloroethane         | 63  |           | 7.723         |                |     |          | ND              | ND                | U     |
| 35 Vinyl acetate              | 43  |           | 7.787         |                |     |          | ND              | ND                |       |



| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 37 cis-1,2-Dichloroethene      | 96  |           | 8.729          |               |    |          | ND              | ND                | U     |
| 38 2-Butanone (MEK)            | 72  | 8.804     | 8.788          | 0.016         | 71 | 1662     | 10.0            | 0.1132            |       |
| 39 Ethyl acetate               | 88  |           | 8.820          |               |    |          | ND              | ND                |       |
| * 40 Chlorobromomethane        | 128 | 9.146     | 9.157          | -0.011        | 73 | 525512   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  |           | 9.205          |               |    |          | ND              | ND                | U     |
| 42 Chloroform                  | 83  |           | 9.269          |               |    |          | ND              | ND                |       |
| 43 Cyclohexane                 | 84  |           | 9.531          |               |    |          | ND              | ND                | U     |
| 44 1,1,1-Trichloroethane       | 97  |           | 9.542          |               |    |          | ND              | ND                | U     |
| S 30 1,2-Dichloroethene, Total | 61  |           | 9.665          |               |    |          | 20.0            | ND                |       |
| 45 Carbon tetrachloride        | 117 |           | 9.783          |               |    |          | ND              | ND                | U     |
| 46 Isooctane                   | 57  |           | 10.200         |               |    |          | ND              | ND                |       |
| 47 Benzene                     | 78  |           | 10.216         |               |    |          | ND              | ND                | U     |
| 48 1,2-Dichloroethane          | 62  |           | 10.382         |               |    |          | ND              | ND                |       |
| 49 n-Heptane                   | 43  |           | 10.569         |               |    |          | ND              | ND                | U     |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019         | -0.006        | 93 | 2113688  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  |           | 11.463         |               |    |          | ND              | ND                | U     |
| 53 Trichloroethene             | 95  | 11.473    | 11.473         | -0.011        | 24 | 1252     | 10.0            | 0.0170            | M     |
| 54 1,2-Dichloropropane         | 63  |           | 12.019         |               |    |          | ND              | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.201         |               |    |          | ND              | ND                |       |
| A 51 GRO                       | 1   | 12.257    | (4.428-20.086) |               | 0  | 9849369  | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.260    | 12.260         | -0.005        | 58 | 1453     | 10.0            | 0.0214            | M     |
| 56 1,4-Dioxane                 | 88  |           | 12.281         |               |    |          | ND              | ND                | U     |
| 58 Dichlorobromomethane        | 83  |           | 12.554         |               |    |          | ND              | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.474         |               |    |          | 10.0            | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.790         |               |    |          | ND              | ND                | U     |
| 65 Toluene                     | 92  |           | 14.063         |               |    |          | ND              | ND                | U     |
| 64 n-Octane                    | 43  |           | 14.148         |               |    |          | ND              | ND                | U     |
| A 59 TVOC as Toluene           | 92  | 14.153    | (3.080-25.227) |               | 0  | 10012618 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.656         |               |    |          | ND              | ND                | U     |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.026         |               |    |          | ND              | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 15.138         |               |    |          | ND              | ND                | U     |
| 69 2-Hexanone                  | 43  |           | 15.507         |               |    |          | ND              | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.780         |               |    |          | ND              | ND                | U     |
| 72 Ethylene Dibromide          | 107 | 16.047    | 16.042         | 0.005         | 17 | 966      | 10.0            | 0.009749          |       |
| * 74 Chlorobenzene-d5          | 117 | 16.951    | 16.957         | -0.006        | 84 | 2238866  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.016         |               |    |          | ND              | ND                | U     |
| 76 Ethylbenzene                | 91  |           | 17.181         |               |    |          | ND              | ND                | U     |
| 77 n-Nonane                    | 57  |           | 17.353         |               |    |          | ND              | ND                | U     |
| 78 m-Xylene & p-Xylene         | 106 |           | 17.438         |               |    |          | ND              | ND                | U     |
| 79 o-Xylene                    | 106 |           | 18.283         |               |    |          | ND              | ND                | U     |
| 80 Styrene                     | 104 |           | 18.342         |               |    |          | ND              | ND                | U     |
| 81 Bromoform                   | 173 |           | 18.781         |               |    |          | ND              | ND                | U     |
| 82 Isopropylbenzene            | 105 |           | 19.043         |               |    |          | ND              | ND                | U     |
| S 73 Xylenes, Total            | 106 |           | 19.600         |               |    |          | 30.0            | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.765         |               |    |          | ND              | ND                | U     |
| 85 N-Propylbenzene             | 91  |           | 19.840         |               |    |          | ND              | ND                | U     |
| 86 1,2,3-Trichloropropane      | 75  |           | 19.856         |               |    |          | 10.0            | ND                |       |
| 89 2-Chlorotoluene             | 91  |           | 20.049         |               |    |          | ND              | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.054         |               |    |          | ND              | ND                | U     |
| 87 n-Decane                    | 57  |           | 20.076         |               |    |          | ND              | ND                |       |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 20.172         |               |    |          | ND              | ND                | U     |
| 91 Alpha Methyl Styrene        | 118 |           | 20.562         |               |    |          | ND              | ND                | U     |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 92 tert-Butylbenzene           | 119 |           | 20.691        |               |    |          | ND              | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 |           | 20.798        |               |    |          | ND              | ND                | U     |
| 94 sec-Butylbenzene            | 105 |           | 21.044        |               |    |          | ND              | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.263        |               |    |          | ND              | ND                | U     |
| 96 1,3-Dichlorobenzene         | 146 | 21.274    | 21.269        | 0.005         | 38 | 5275     | 10.0            | 0.0331            |       |
| 97 1,4-Dichlorobenzene         | 146 | 21.408    | 21.413        | -0.005        | 39 | 6191     | 10.0            | 0.0406            |       |
| 98 Benzyl chloride             | 91  |           | 21.616        |               |    |          | ND              | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.846        |               |    |          | ND              | ND                | U     |
| 99 Undecane                    | 57  |           | 21.905        |               |    |          | ND              | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 | 21.948    | 21.948        | 0.000         | 21 | 4439     | 10.0            | 0.0303            |       |
| 102 Dodecane                   | 57  |           | 23.435        |               |    |          | ND              | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 | 24.334    | 24.334        | 0.000         | 84 | 7090     | 10.0            | 0.0643            |       |
| 104 Hexachlorobutadiene        | 225 |           | 24.527        |               |    |          | ND              | ND                | U     |
| 105 Naphthalene                | 128 | 24.773    | 24.773        | 0.000         | 46 | 12591    | 10.0            | 0.0589            |       |
| 106 1,2,3-Trichlorobenzene     | 180 | 25.222    | 25.222        | 0.000         | 15 | 5796     | 10.0            | 0.0609            |       |
| 118 Chlorotrifluoroethene TIC  | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 119 Difluoroethane TIC         | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 120 Total Alkanes TIC          | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 121 Freon 115 TIC              | 1   |           | 0.000         |               |    |          |                 | ND                |       |
| 122 1,1,1-Trifluoro-2,2-dichlo | 1   |           | 0.000         |               |    |          |                 | ND                |       |

### QC Flag Legend

#### Processing Flags

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

#### Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

ATTO15LCSW\_00791

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D

Injection Date: 06-Dec-2018 17:33:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

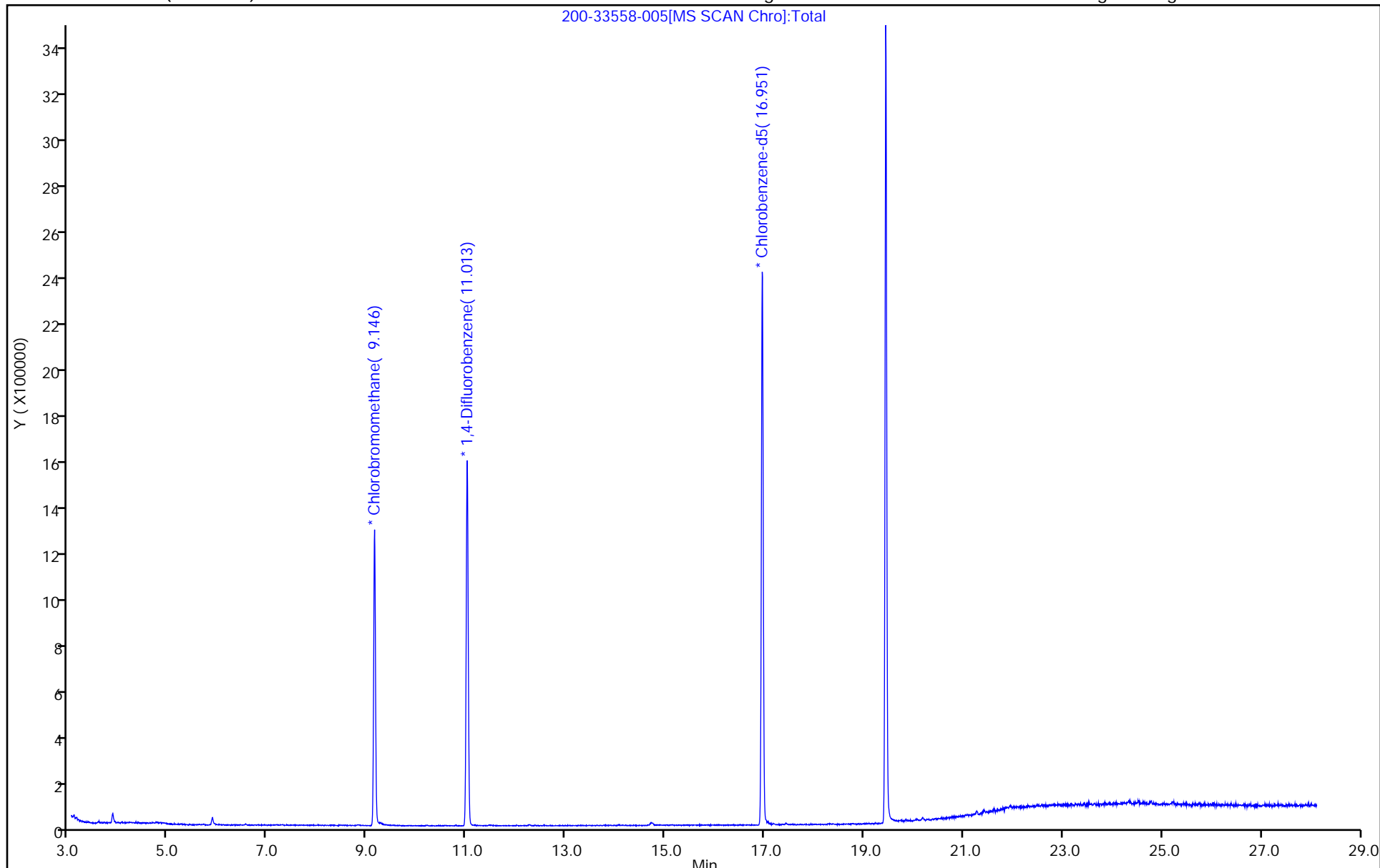
ALS Bottle#: 5

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

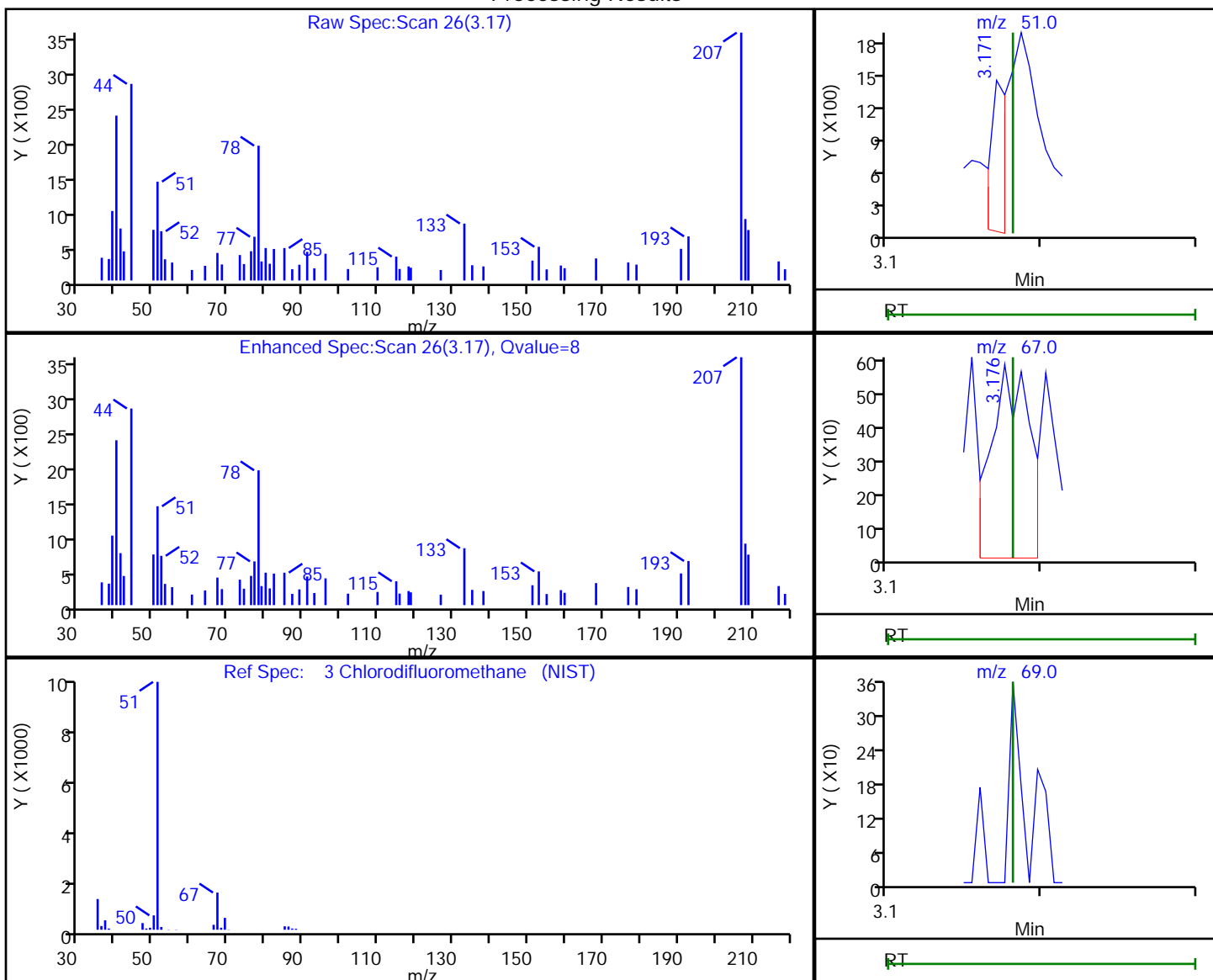


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.17 | 51.00 | 1047     | 0.012545 |
| 3.18 | 67.00 | 1037     |          |
| 3.18 | 69.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:08

Audit Action: Marked Compound Undetected

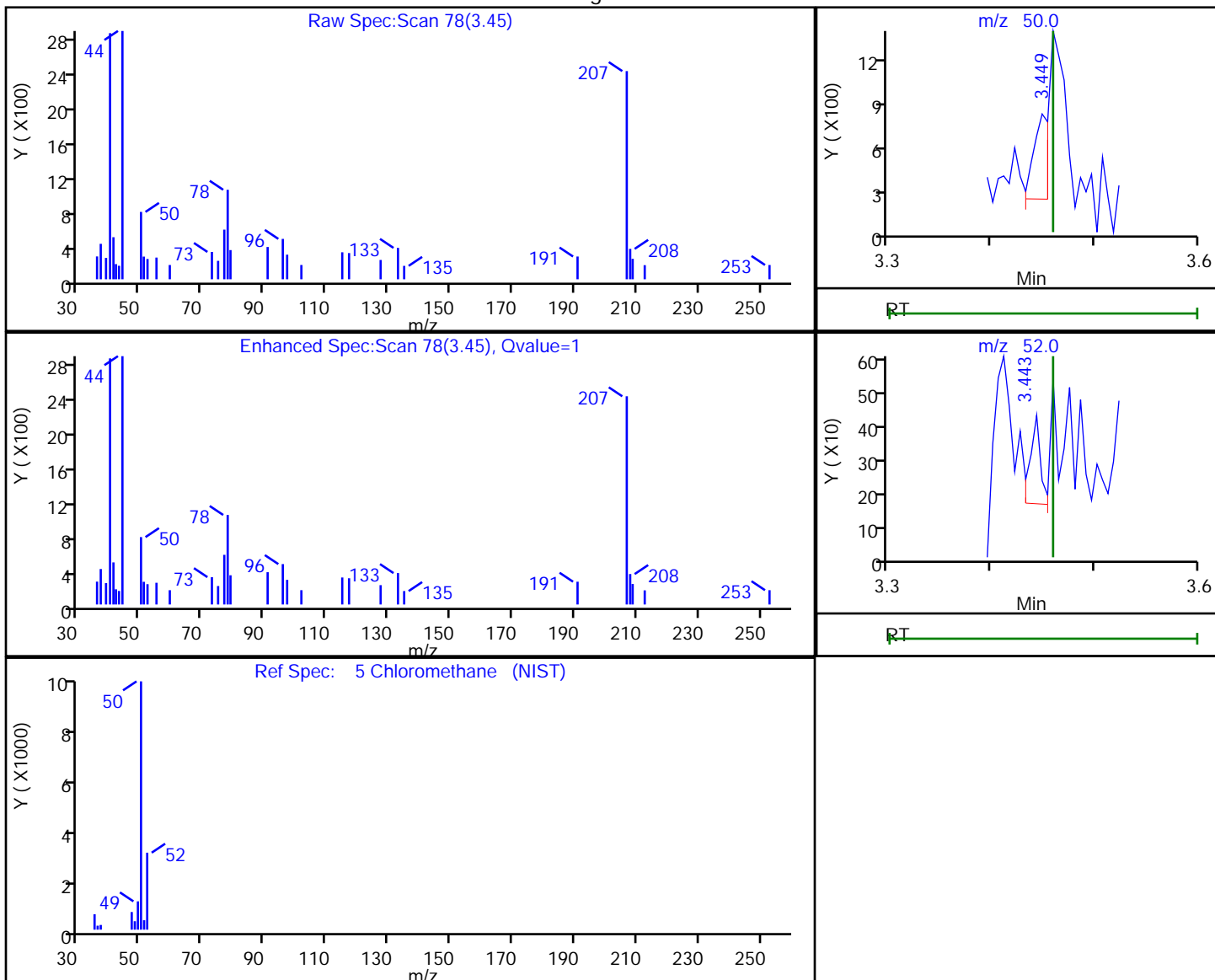
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.45 | 50.00 | 559      | 0.014653 |
| 3.44 | 52.00 | 187      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:10

Audit Action: Marked Compound Undetected

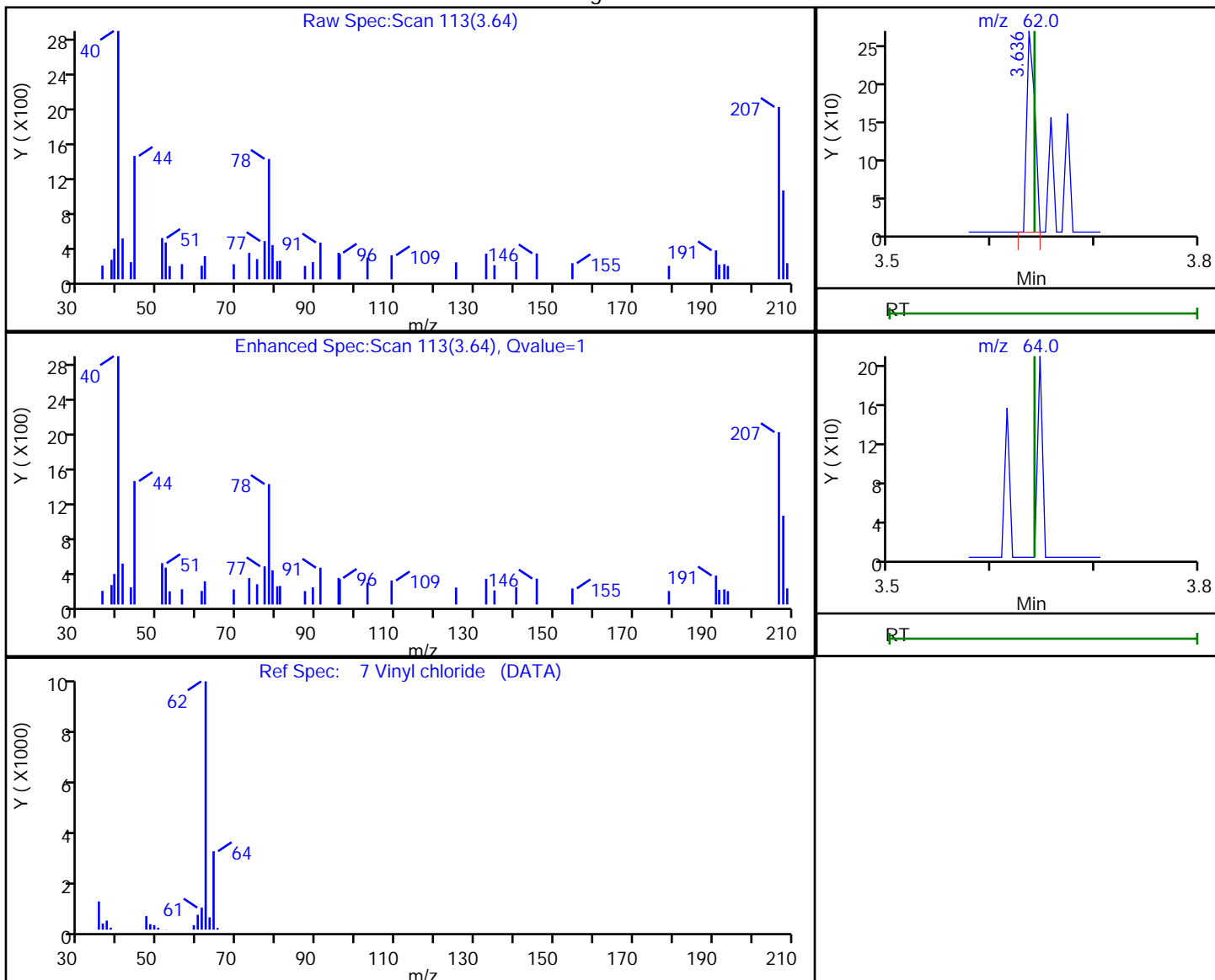
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

7 Vinyl chloride, CAS: 75-01-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.64 | 62.00 | 141      | 0.003071 |
| 3.64 | 64.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:12

Audit Action: Marked Compound Undetected

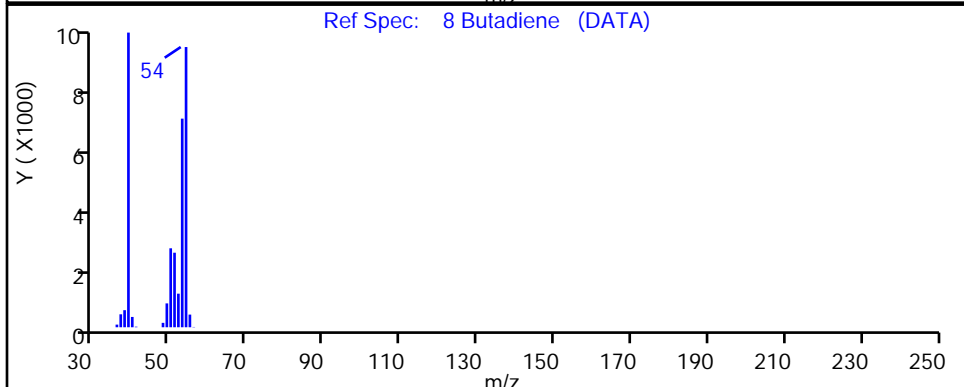
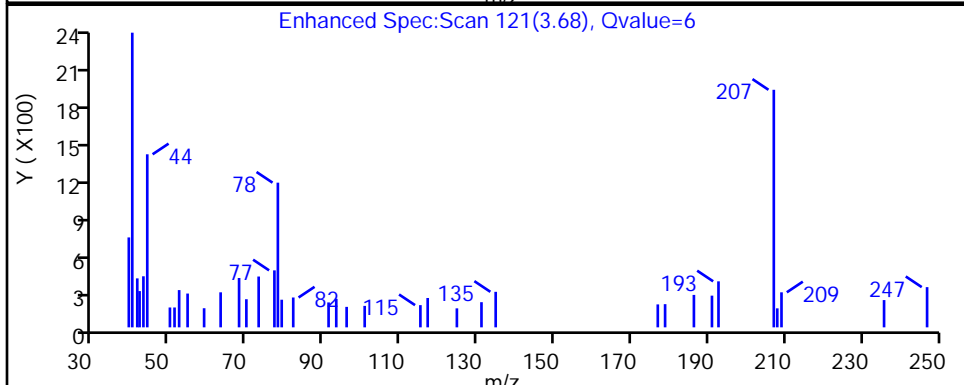
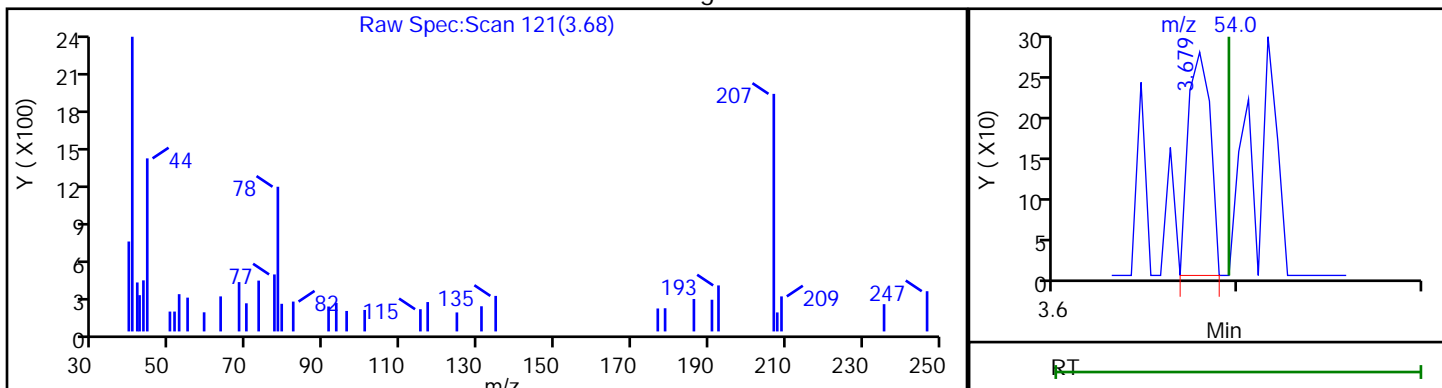
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.68 | 54.00 | 230      | 0.008050 |

Reviewer: puangmaleek, 07-Dec-2018 15:50:13

Audit Action: Marked Compound Undetected

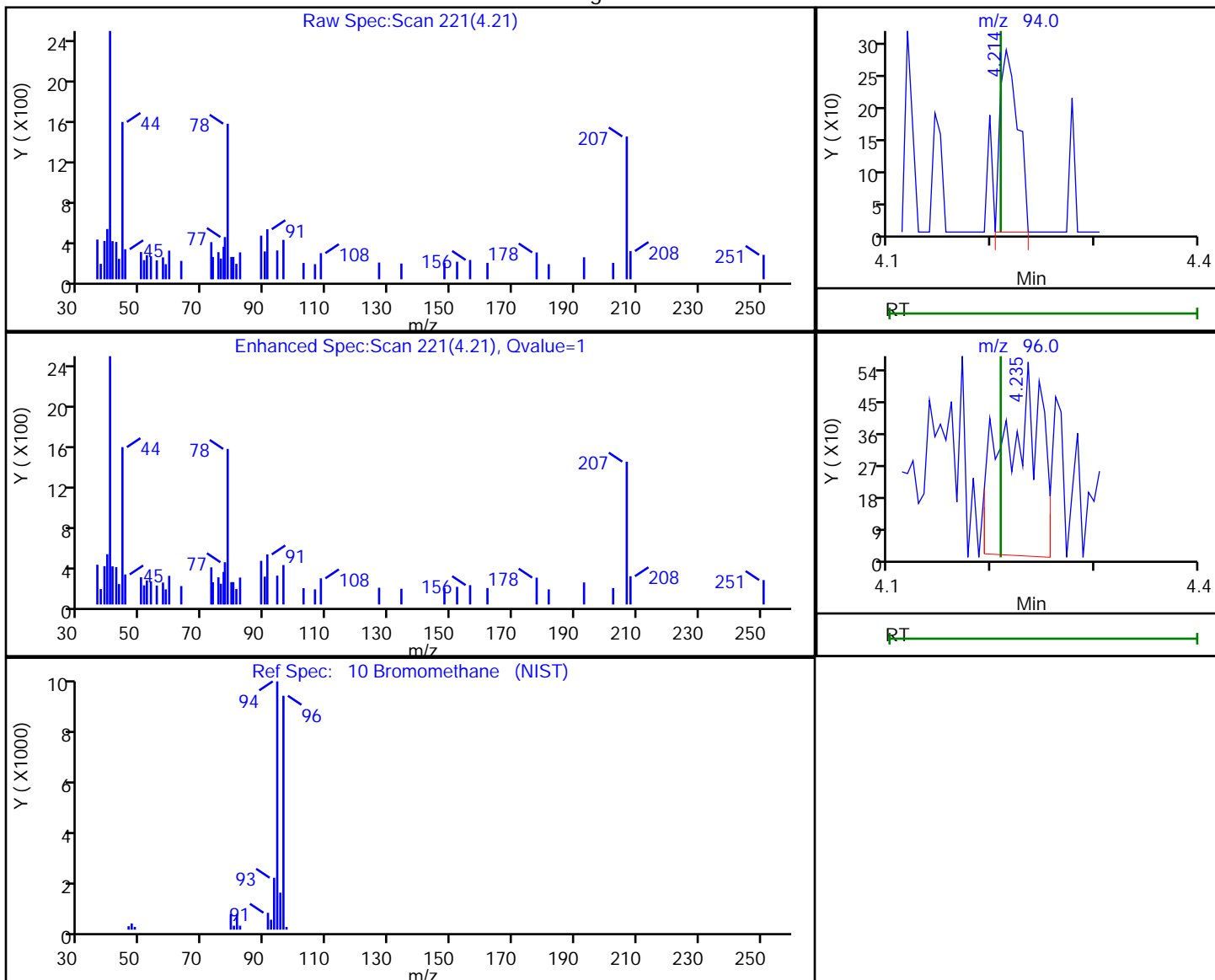
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

10 Bromomethane, CAS: 74-83-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.21 | 94.00 | 348      | 0.006564 |
| 4.24 | 96.00 | 1374     |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

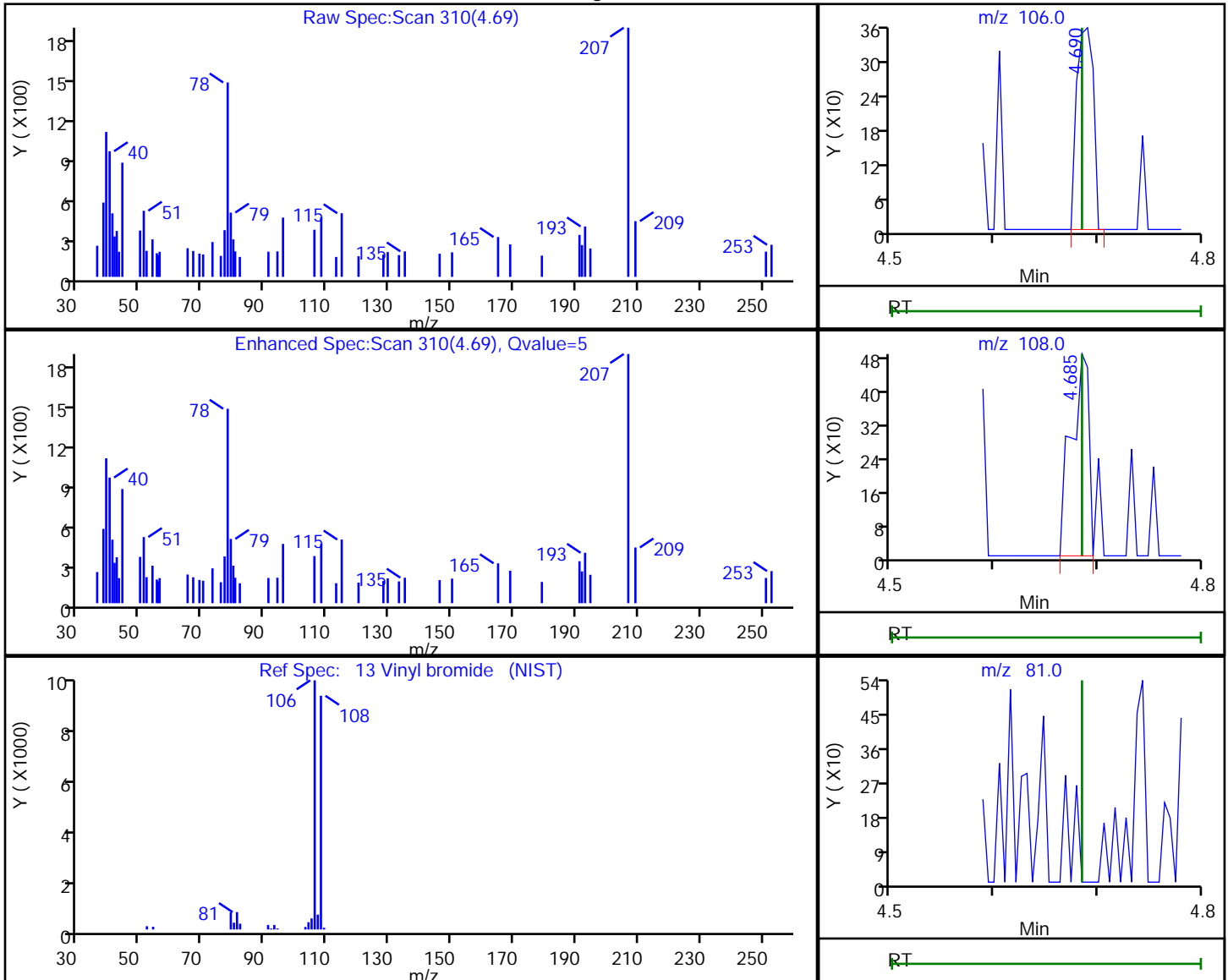


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

13 Vinyl bromide, CAS: 593-60-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.69 | 106.00 | 402      | 0.007669 |
| 4.68 | 108.00 | 570      |          |
| 4.68 | 81.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:16

Audit Action: Marked Compound Undetected

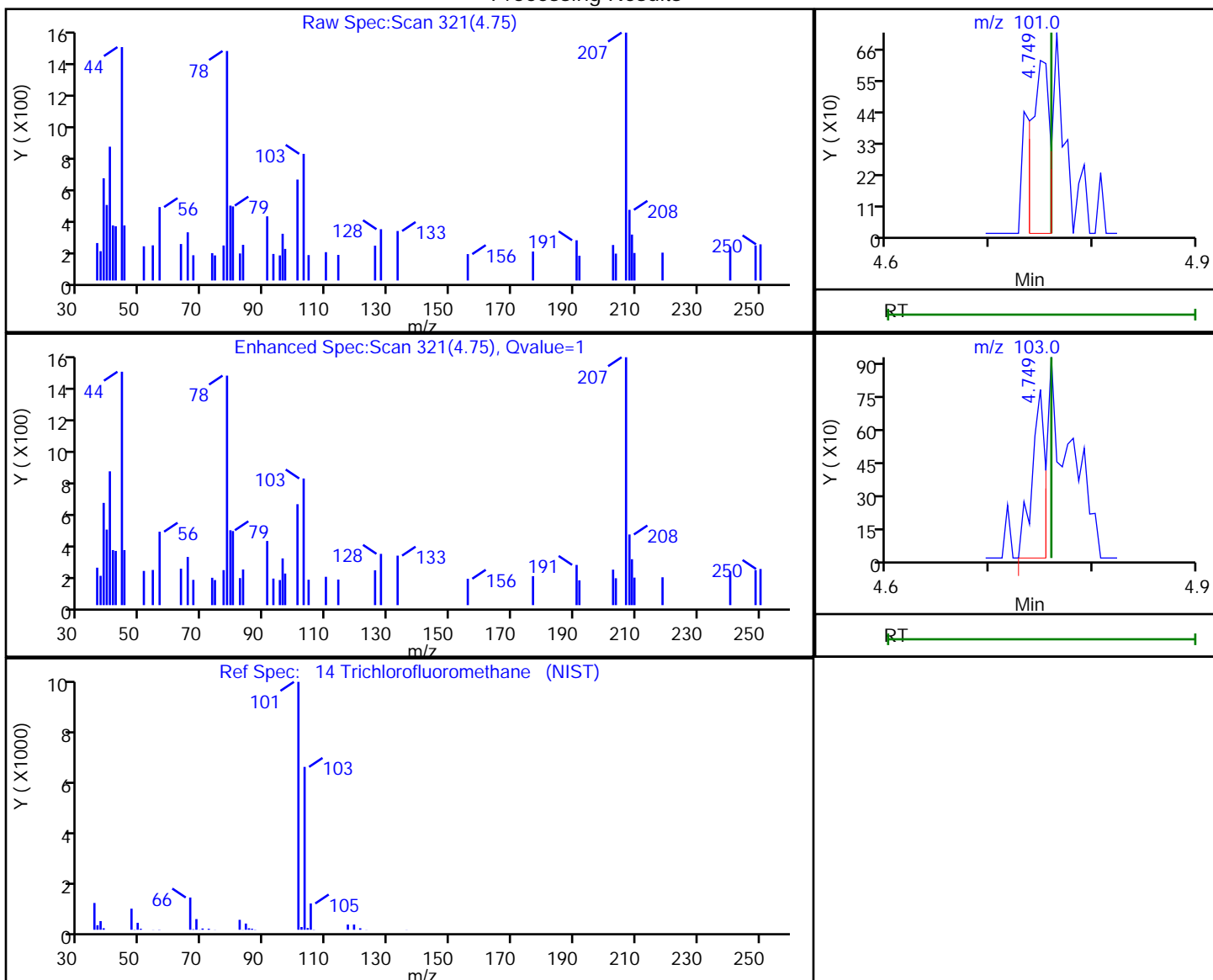
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 4.75 | 101.00 | 753      | 0.004860 |
| 4.75 | 103.00 | 694      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:17

Audit Action: Marked Compound Undetected

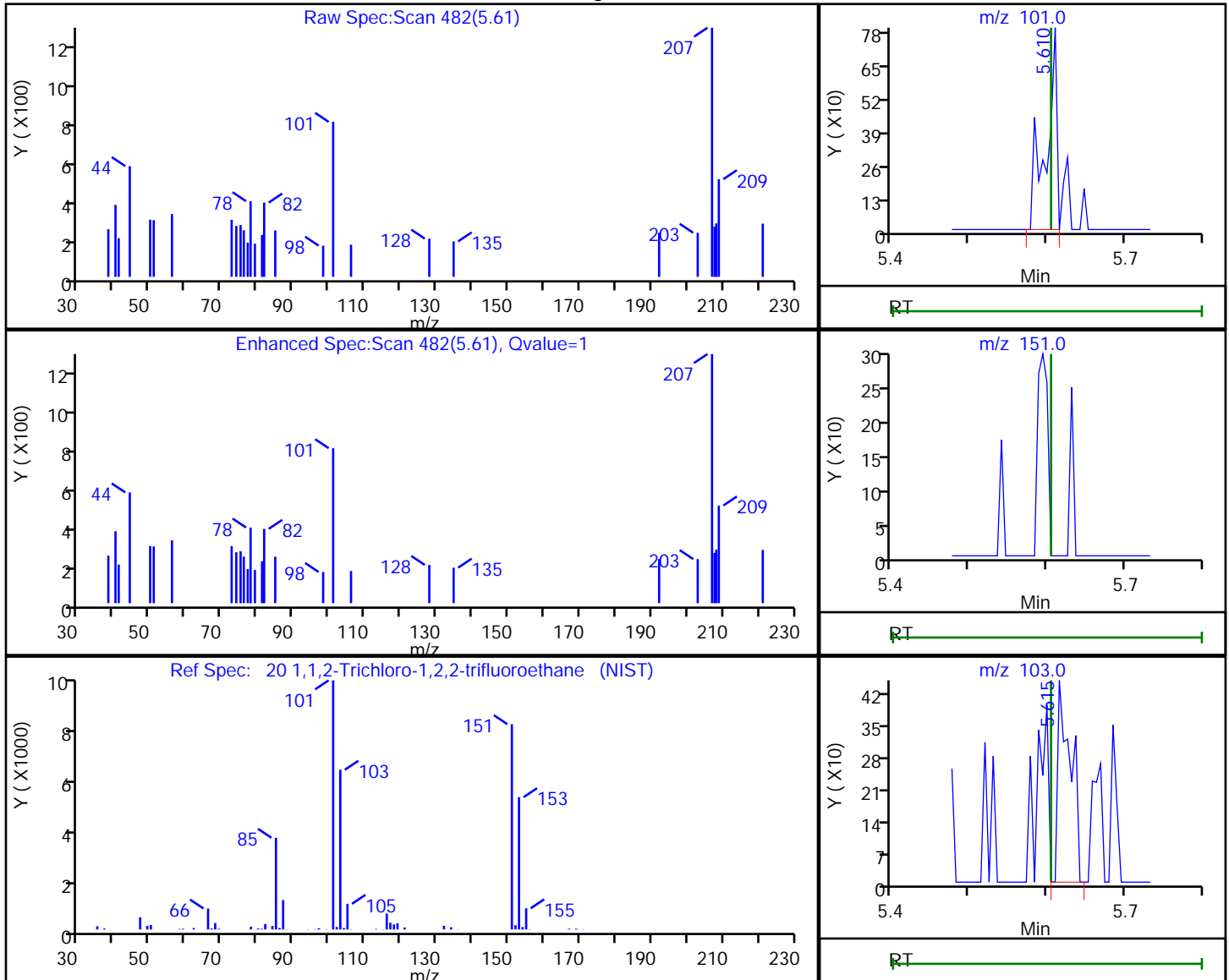
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 5.61 | 101.00 | 748      | 0.006854 |
| 5.60 | 151.00 | 0        |          |
| 5.62 | 103.00 | 516      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:23

Audit Action: Marked Compound Undetected

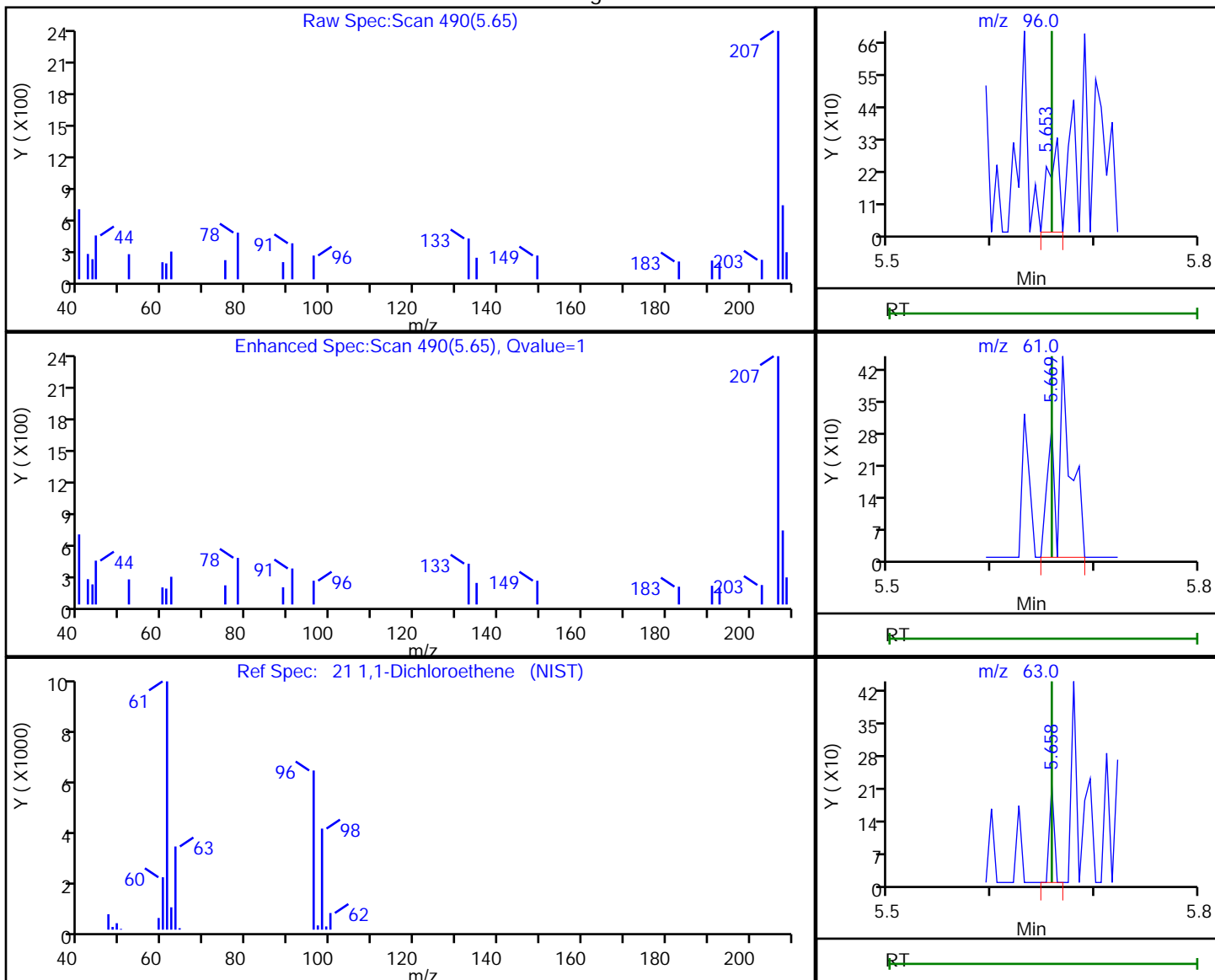
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.65 | 96.00 | 237      | 0.004933 |
| 5.67 | 61.00 | 463      |          |
| 5.66 | 63.00 | 68       |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:24

Audit Action: Marked Compound Undetected

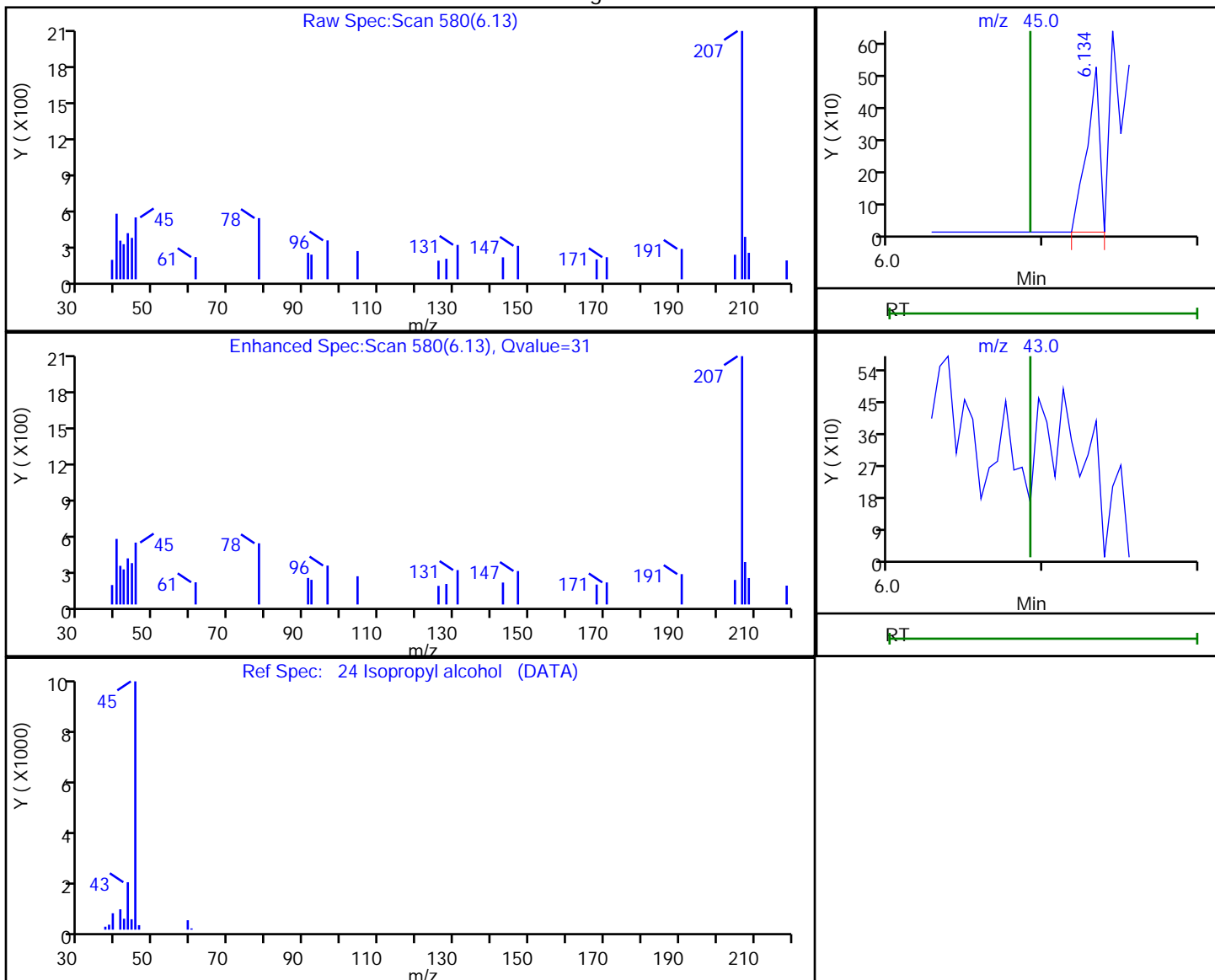
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.13 | 45.00 | 303      | 0.006702 |
| 6.09 | 43.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:28

Audit Action: Marked Compound Undetected

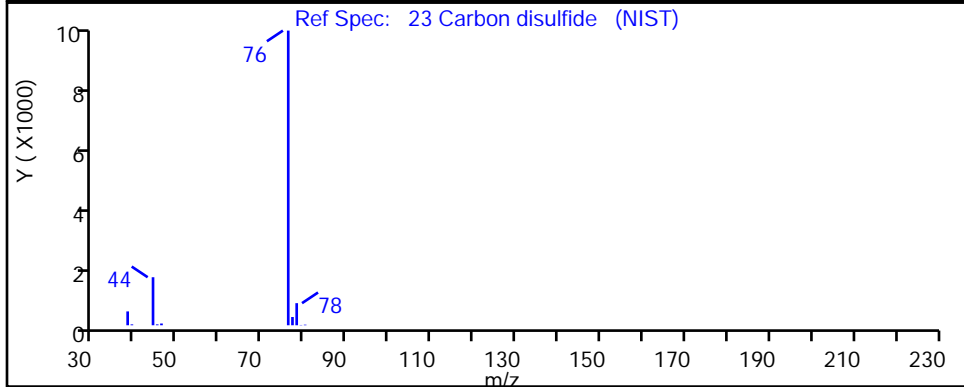
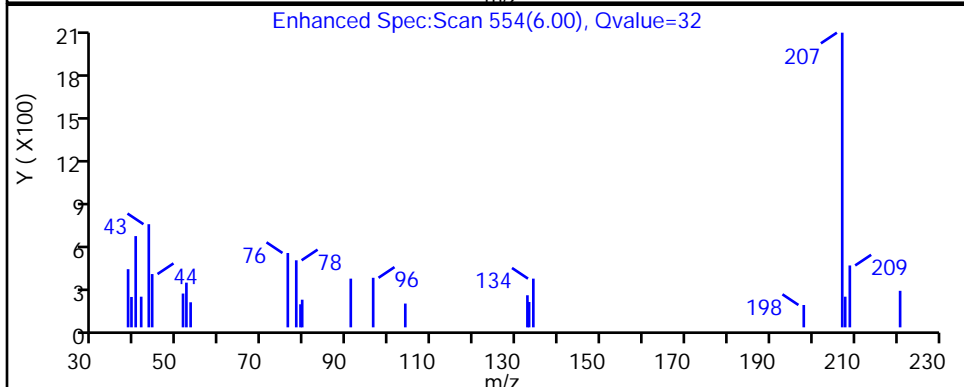
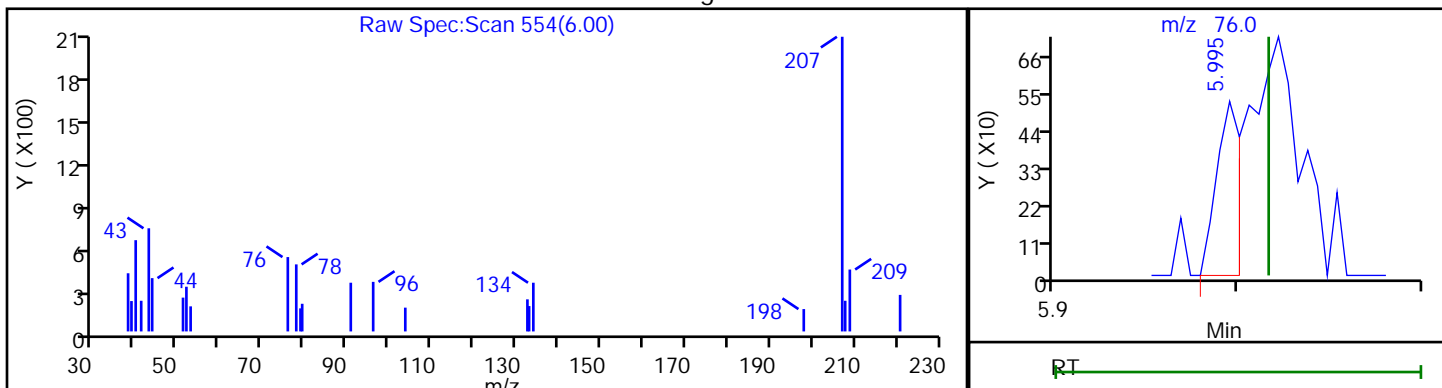
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.00 | 76.00 | 470      | 0.003803 |

Reviewer: puangmaleek, 07-Dec-2018 15:50:26

Audit Action: Marked Compound Undetected

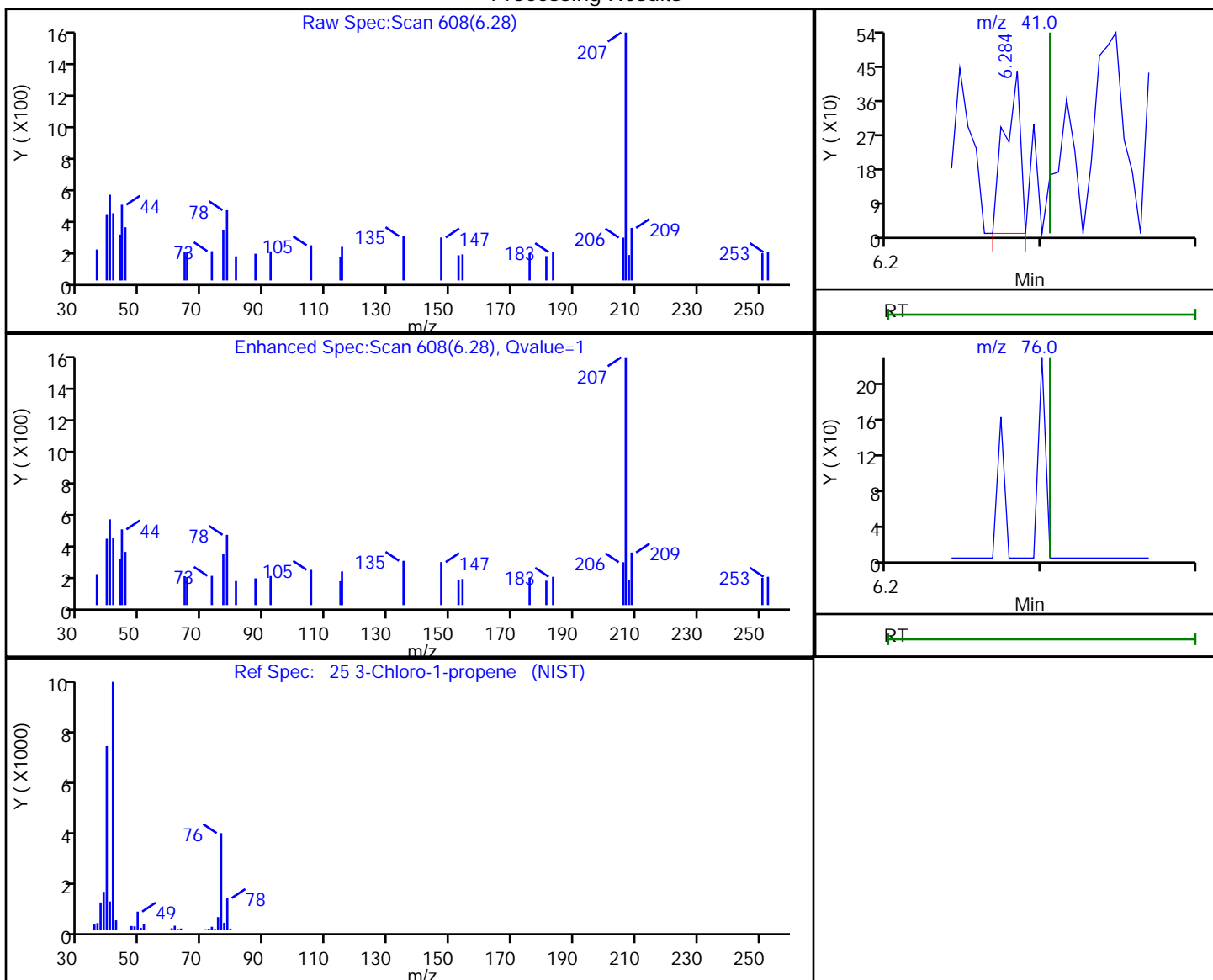
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.28 | 41.00 | 306      | 0.008562 |
| 6.30 | 76.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

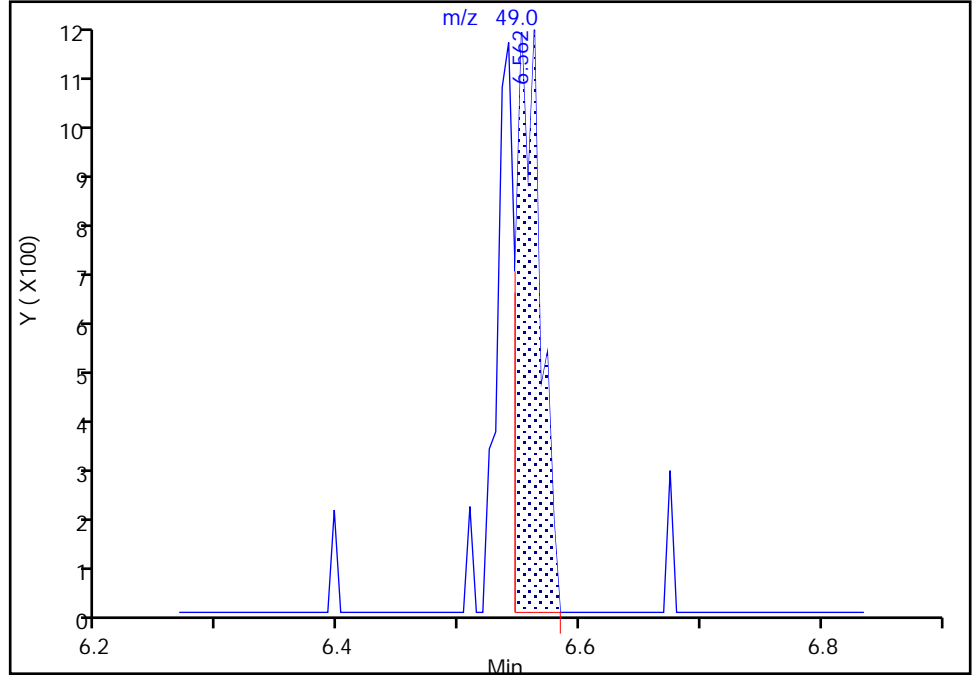
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

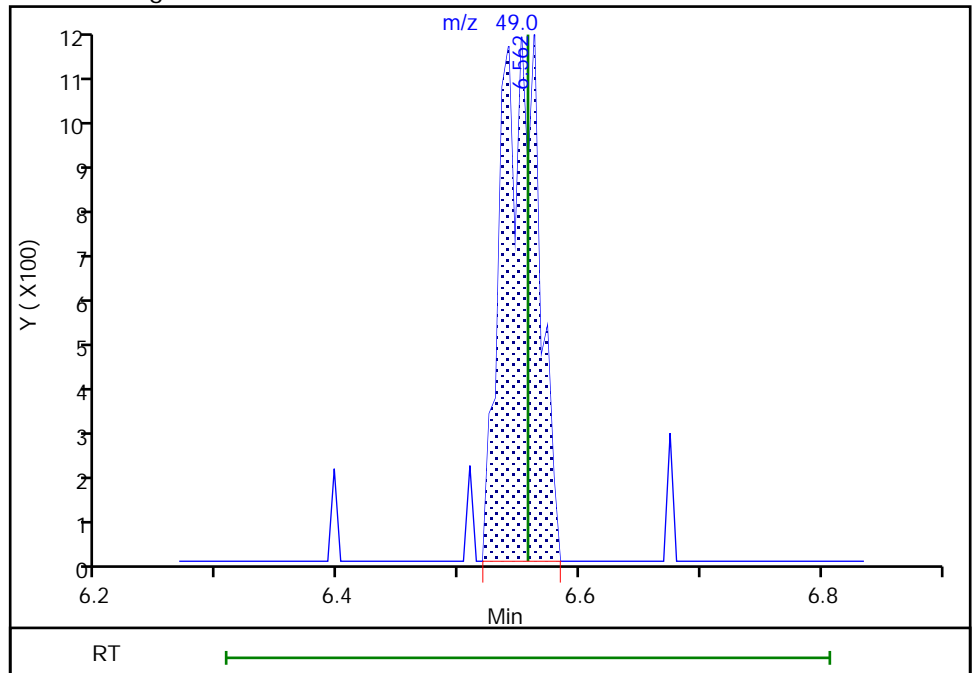
RT: 6.56  
Area: 1634  
Amount: 0.037689  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.56  
Area: 2572  
Amount: 0.059324  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 15:50:52

Audit Action: Manually Integrated

Audit Reason: Assign Peak

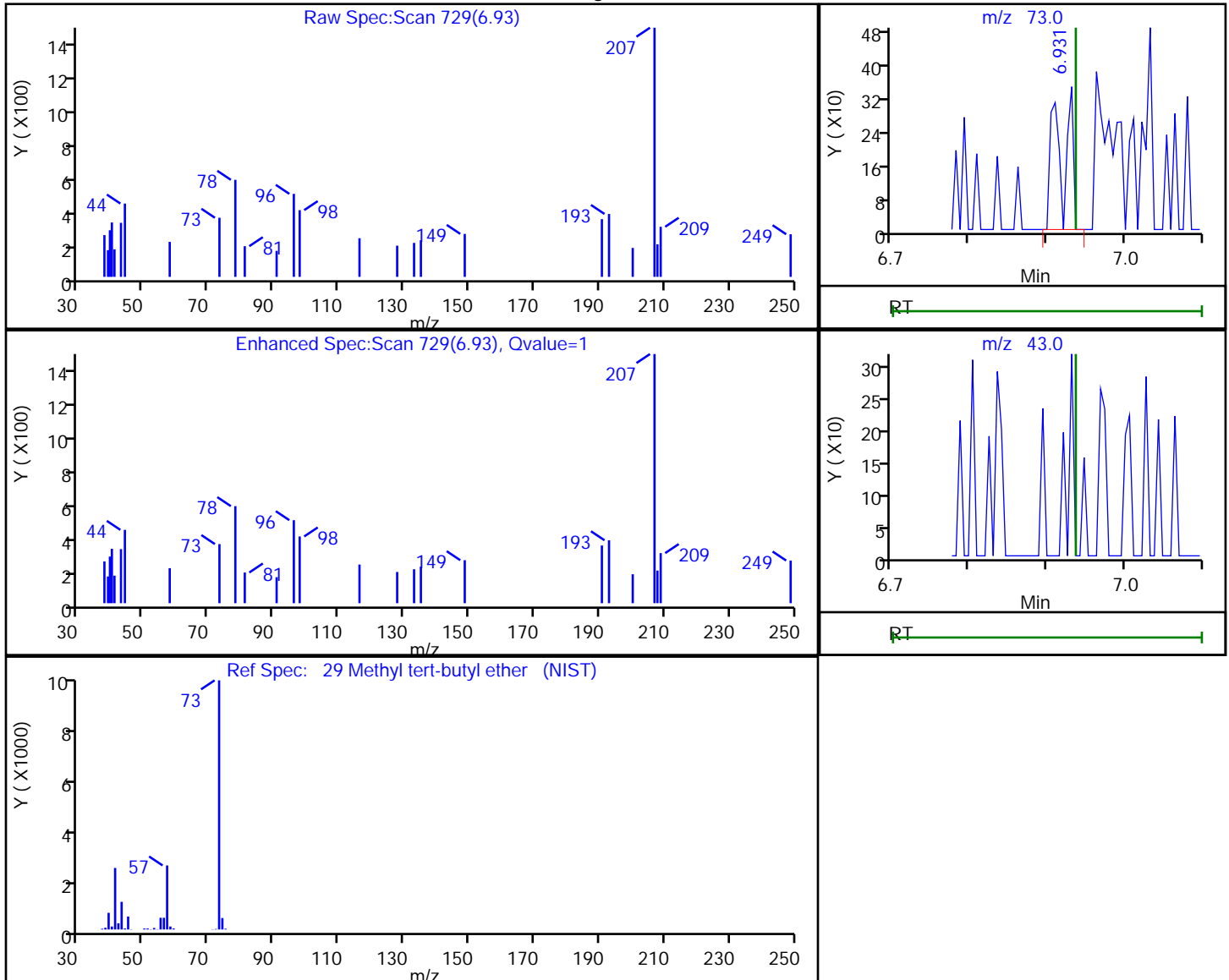


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.93 | 73.00 | 430      | 0.004604 |
| 6.93 | 43.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:50:59

Audit Action: Marked Compound Undetected

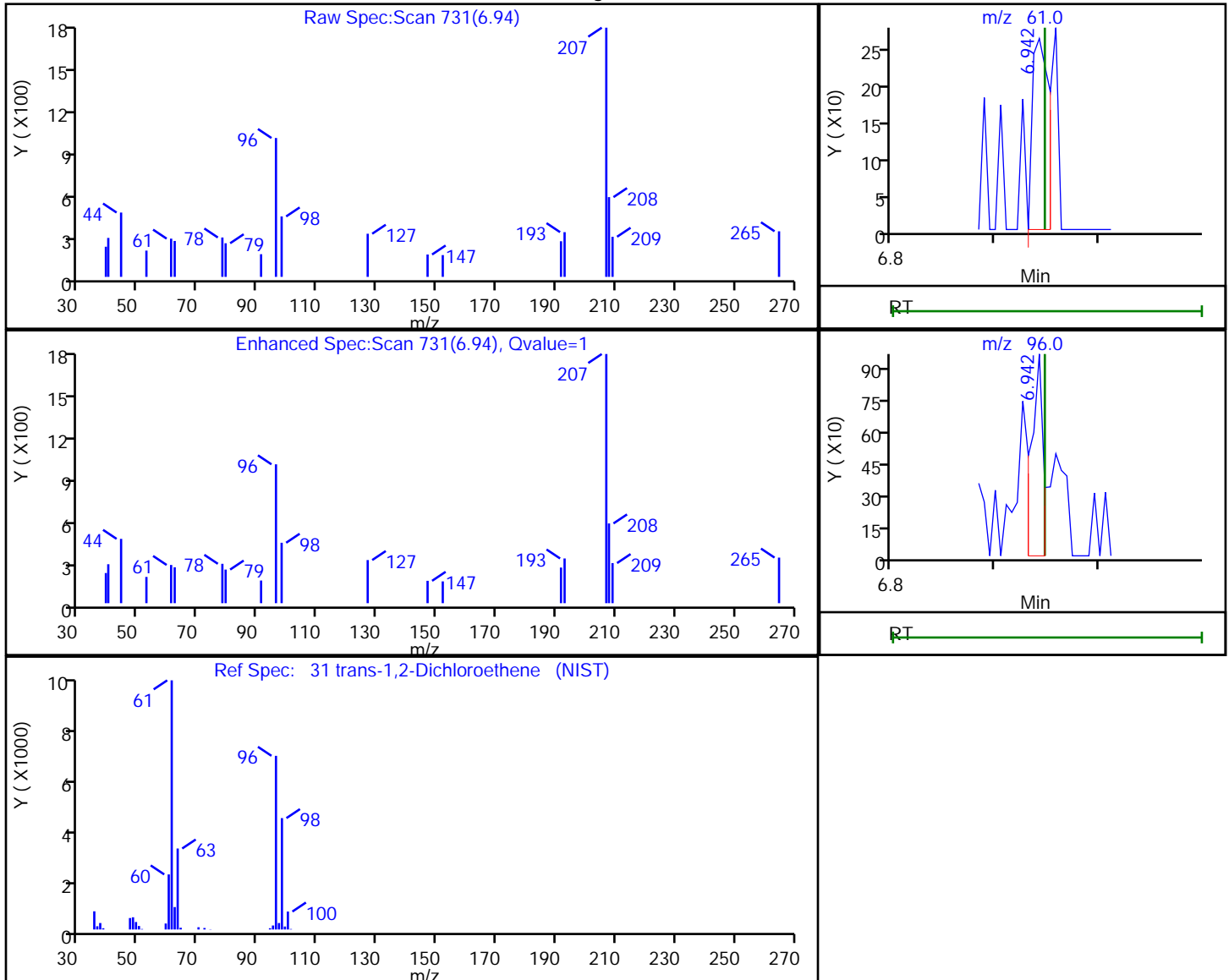
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

31 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.94 | 61.00 | 298      | 0.005120 |
| 6.94 | 96.00 | 757      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:01

Audit Action: Marked Compound Undetected

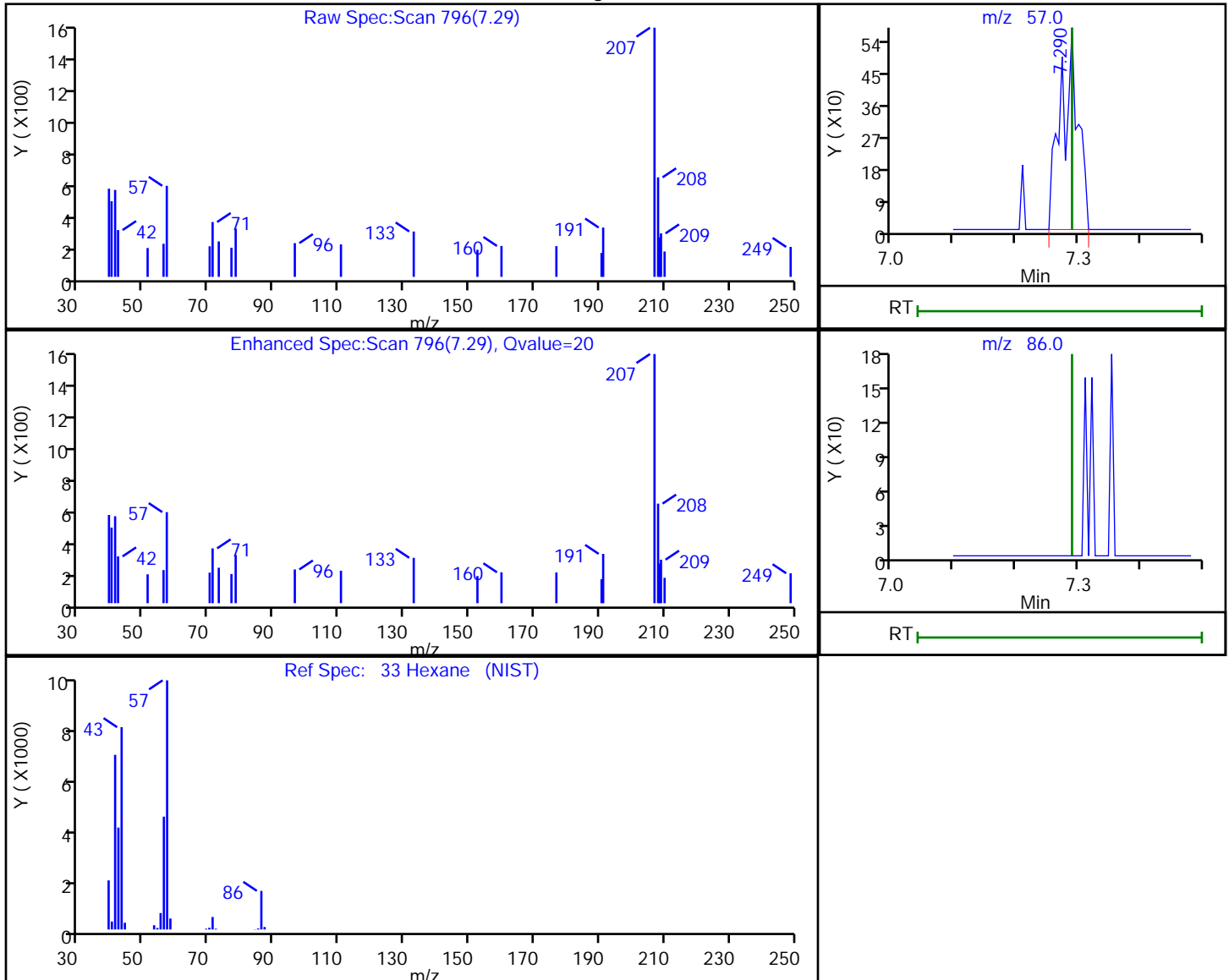
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

33 Hexane, CAS: 110-54-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.29 | 57.00 | 1098     | 0.023666 |
| 7.29 | 86.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:05

Audit Action: Marked Compound Undetected

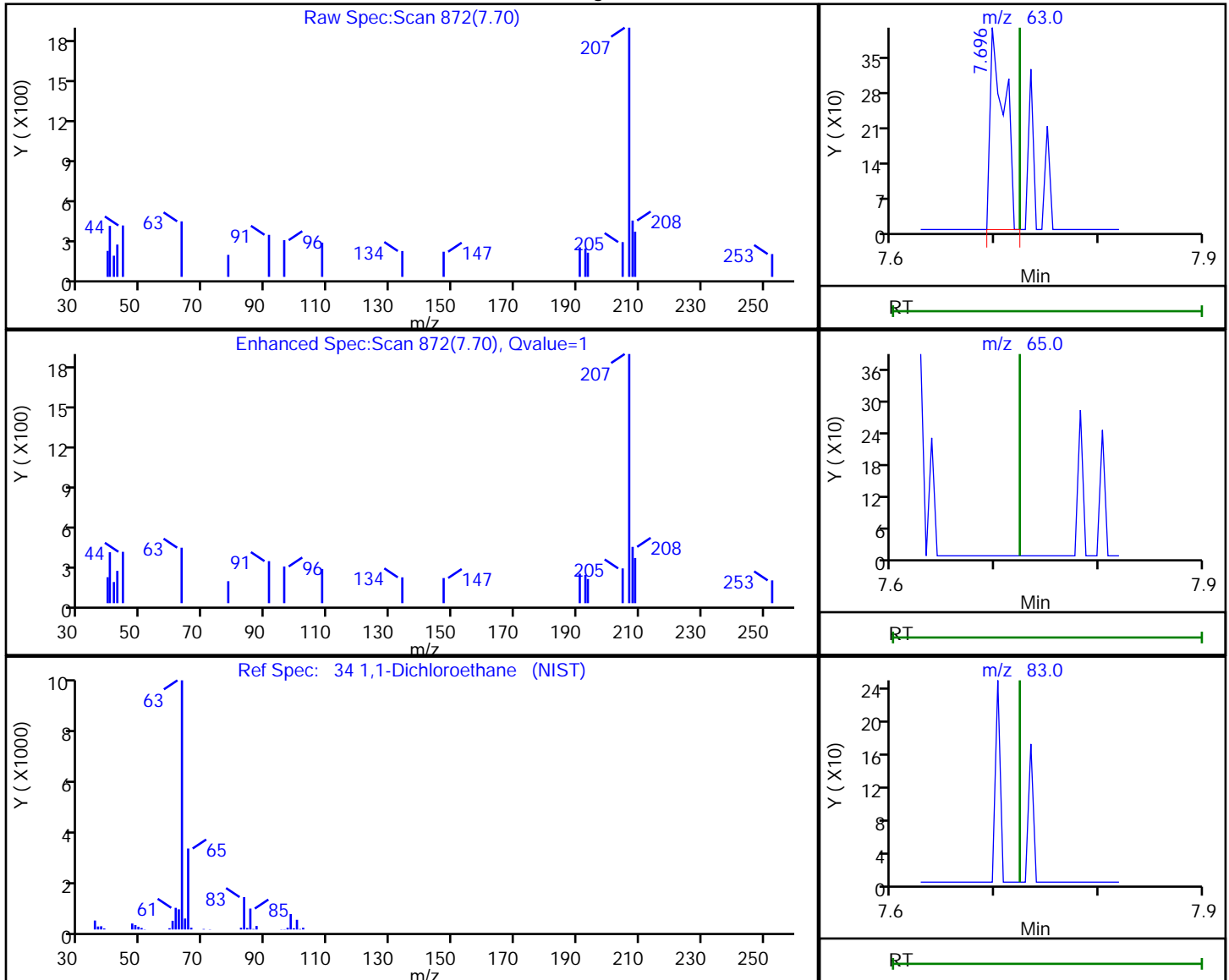
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.70 | 63.00 | 387      | 0.005152 |
| 7.72 | 65.00 | 0        |          |
| 7.72 | 83.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:08

Audit Action: Marked Compound Undetected

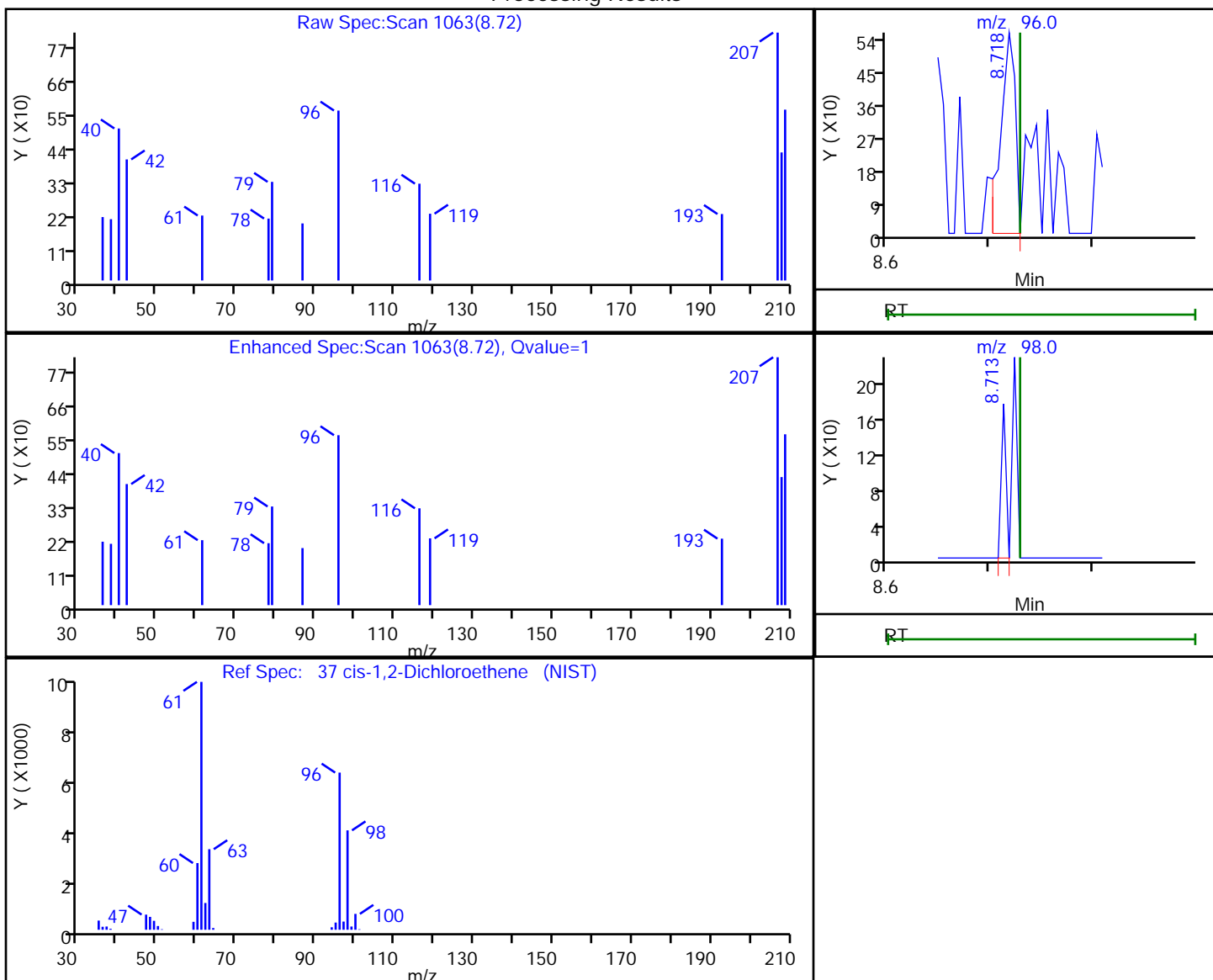
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.72 | 96.00 | 547      | 0.012020 |
| 8.71 | 98.00 | 55       |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:12

Audit Action: Marked Compound Undetected

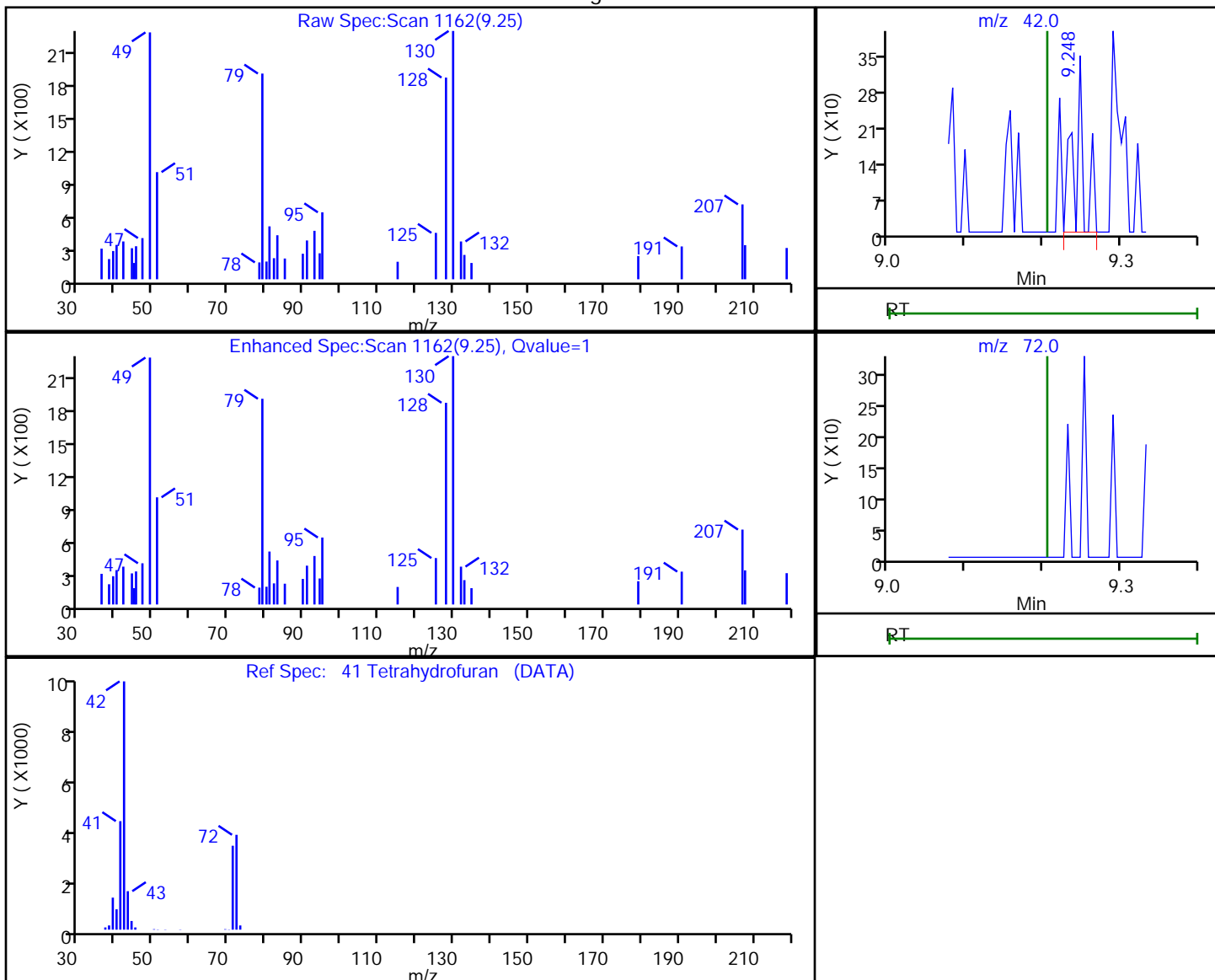
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

41 Tetrahydrofuran, CAS: 109-99-9

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.25 | 42.00 | 296      | 0.012275 |
| 9.21 | 72.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:18

Audit Action: Marked Compound Undetected

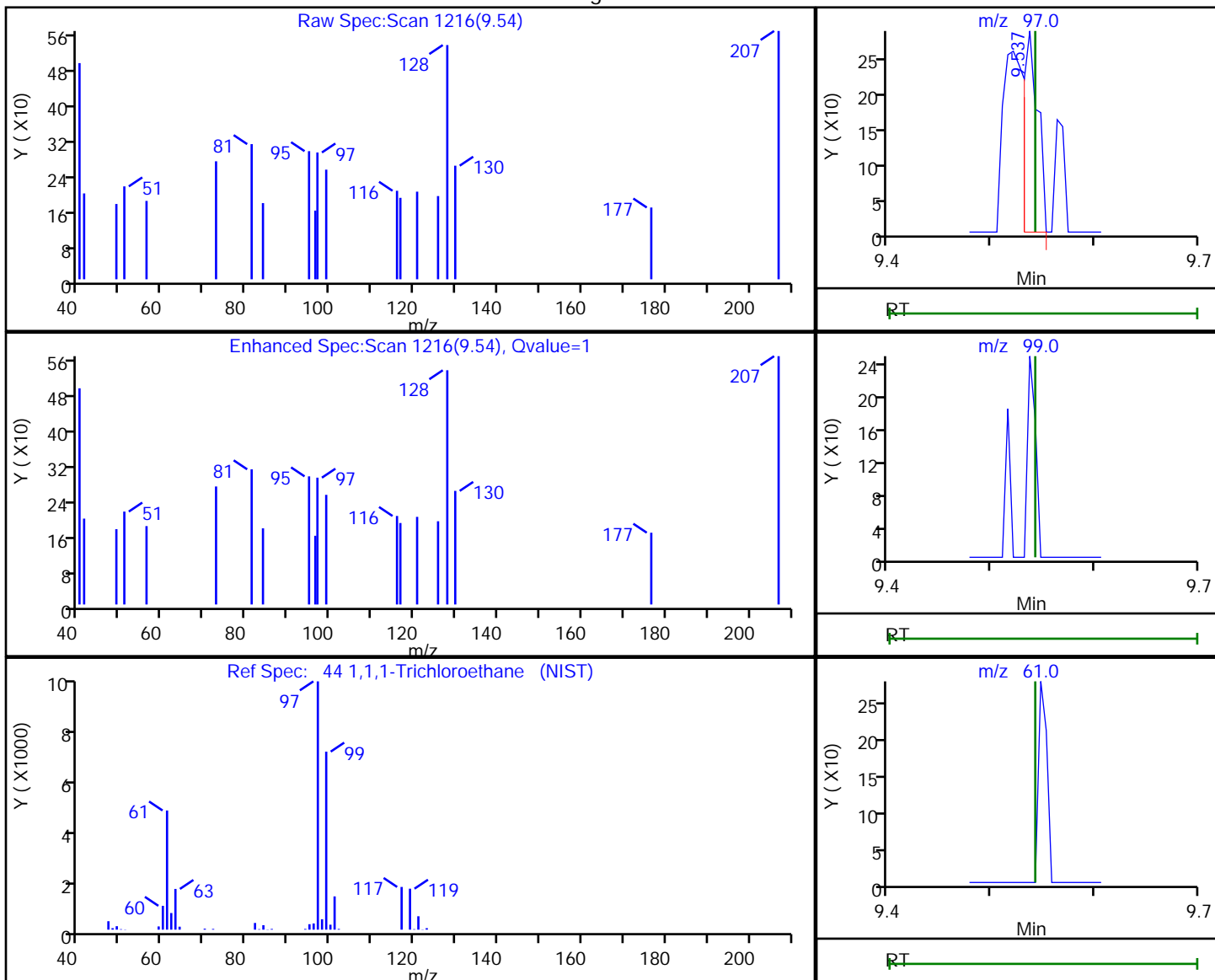
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.54 | 97.00 | 274      | 0.002333 |
| 9.54 | 99.00 | 0        |          |
| 9.54 | 61.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:22

Audit Action: Marked Compound Undetected

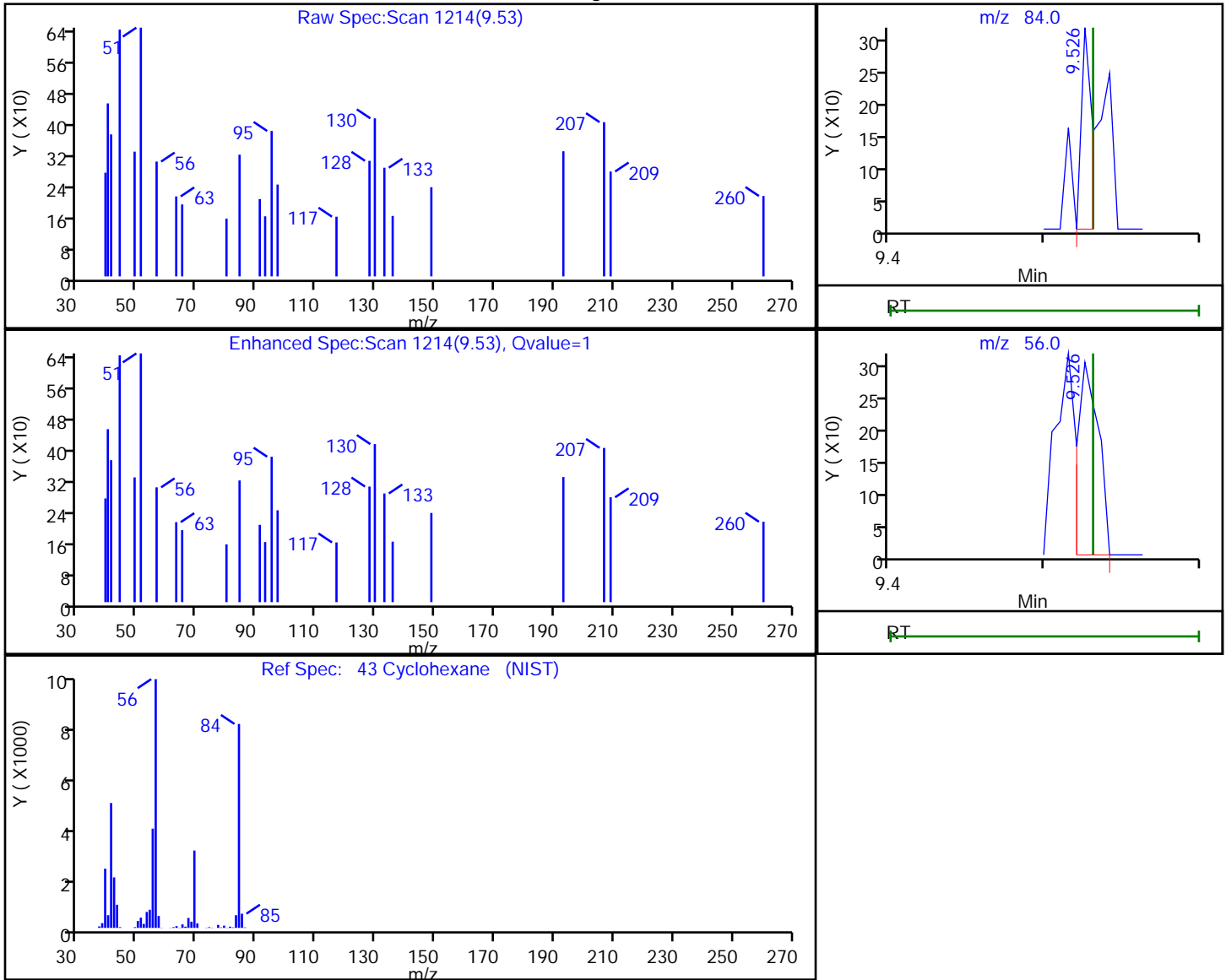
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

43 Cyclohexane, CAS: 110-82-7

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.53 | 84.00 | 152      | 0.003133 |
| 9.53 | 56.00 | 283      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

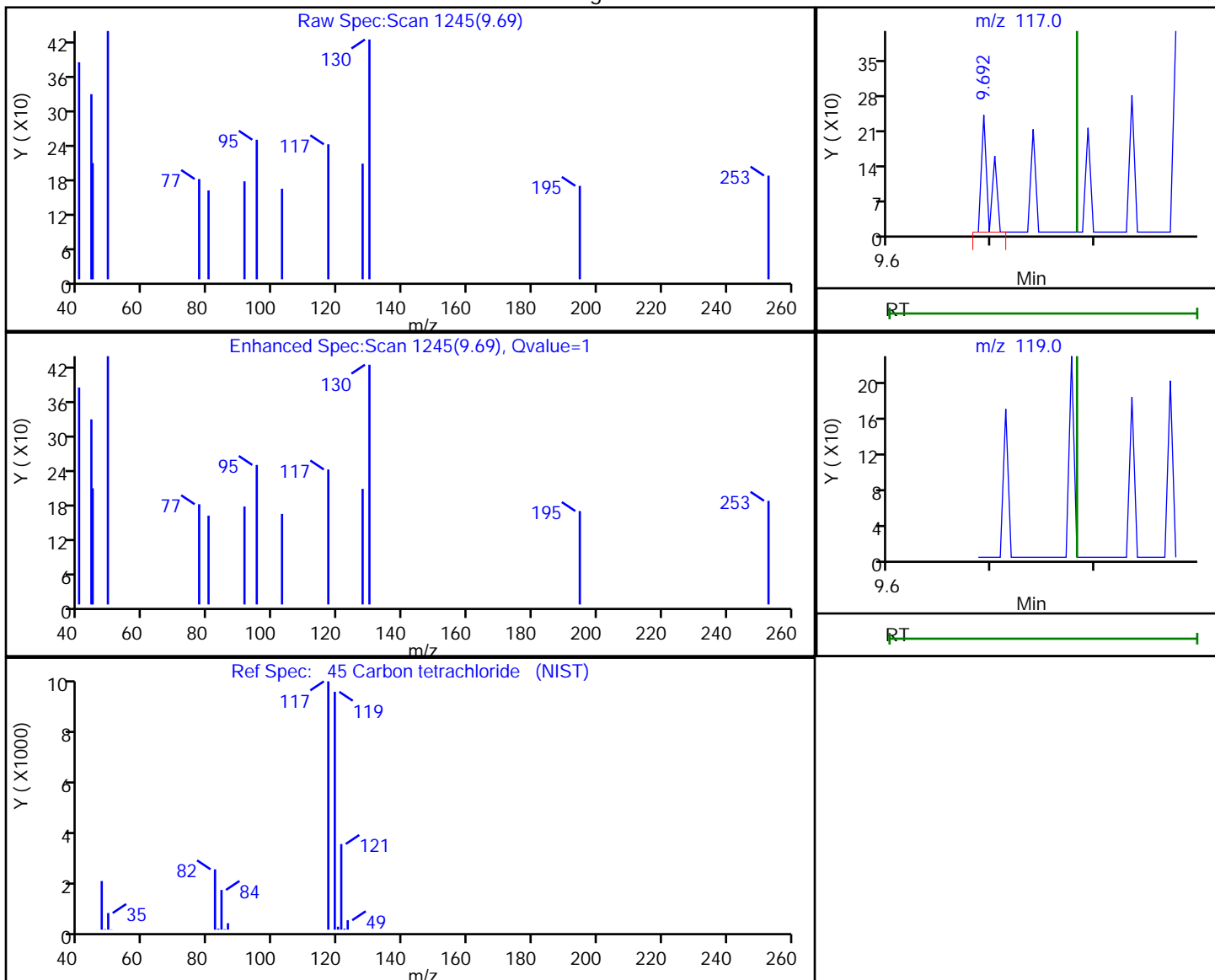


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

45 Carbon tetrachloride, CAS: 56-23-5

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.69 | 117.00 | 126      | 0.001004 |
| 9.78 | 119.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:24

Audit Action: Marked Compound Undetected

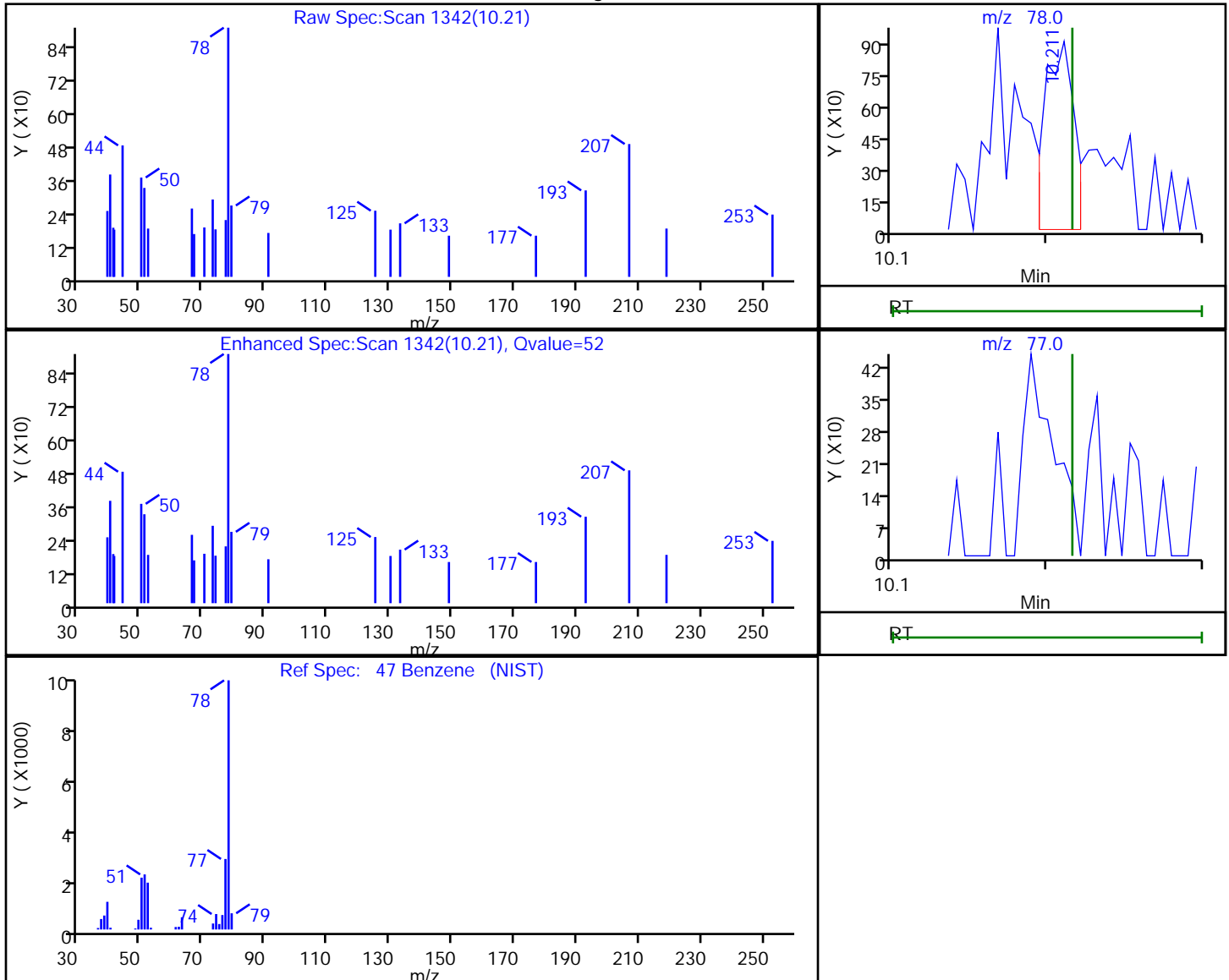
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.21 | 78.00 | 1208     | 0.010733 |
| 10.22 | 77.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:27

Audit Action: Marked Compound Undetected

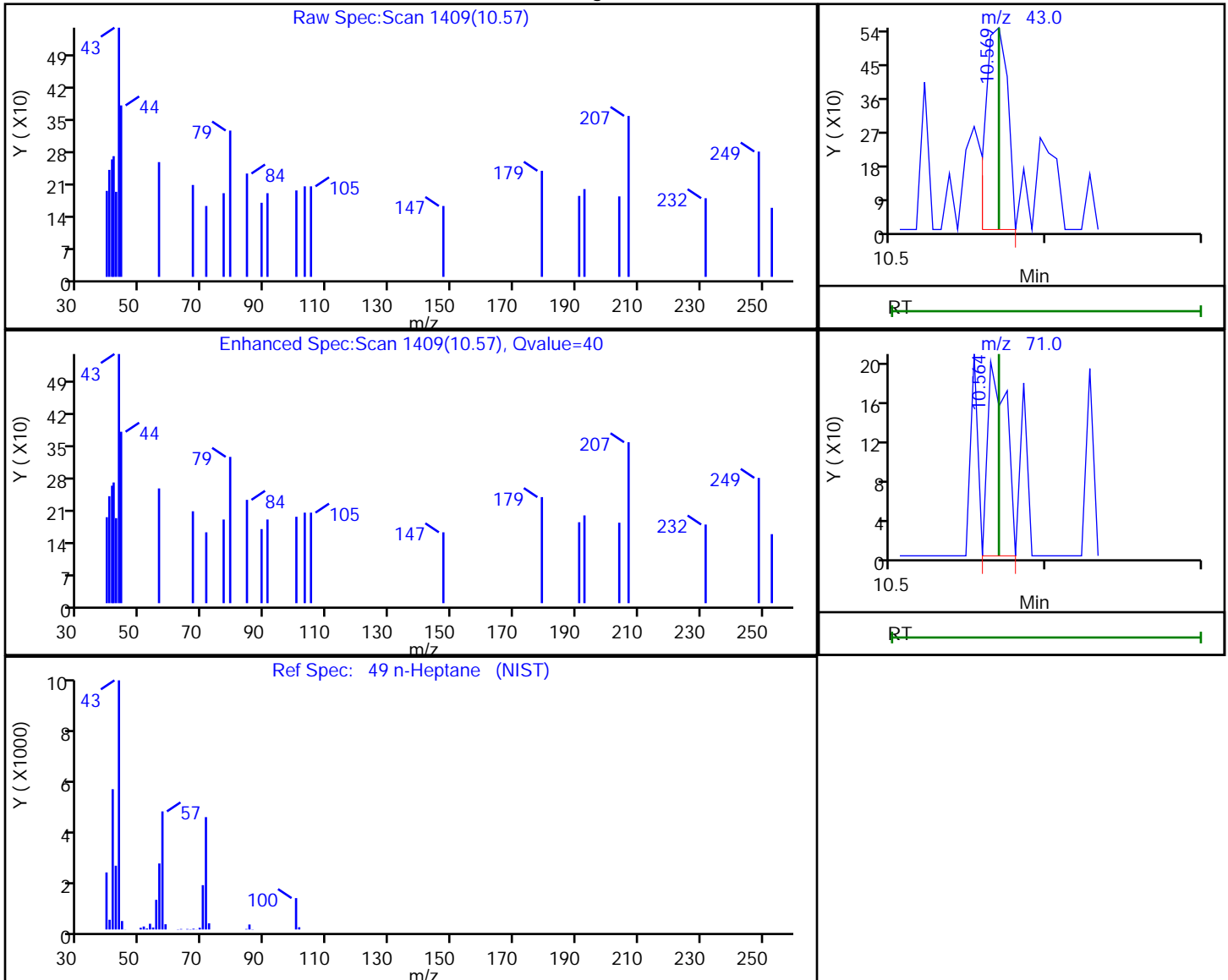
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

49 n-Heptane, CAS: 142-82-5

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.57 | 43.00 | 538      | 0.009290 |
| 10.56 | 71.00 | 169      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

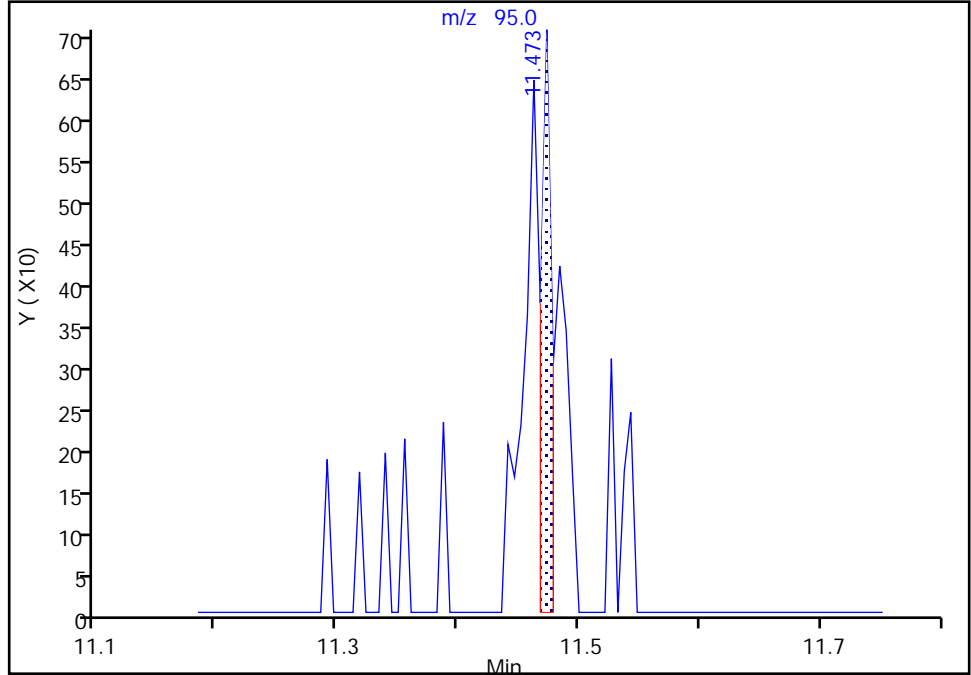
Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

Signal: 1

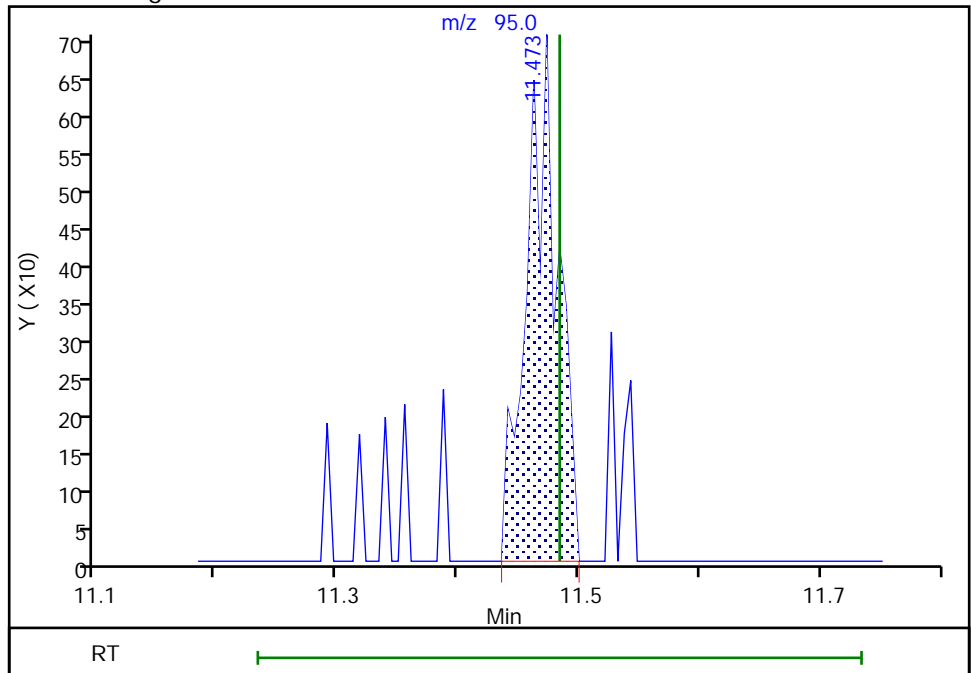
RT: 11.47  
Area: 443  
Amount: 0.006015  
Amount Units: ppb v/v

Processing Integration Results



RT: 11.47  
Area: 1252  
Amount: 0.016998  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 07-Dec-2018 15:51:39  
Audit Action: Manually Integrated

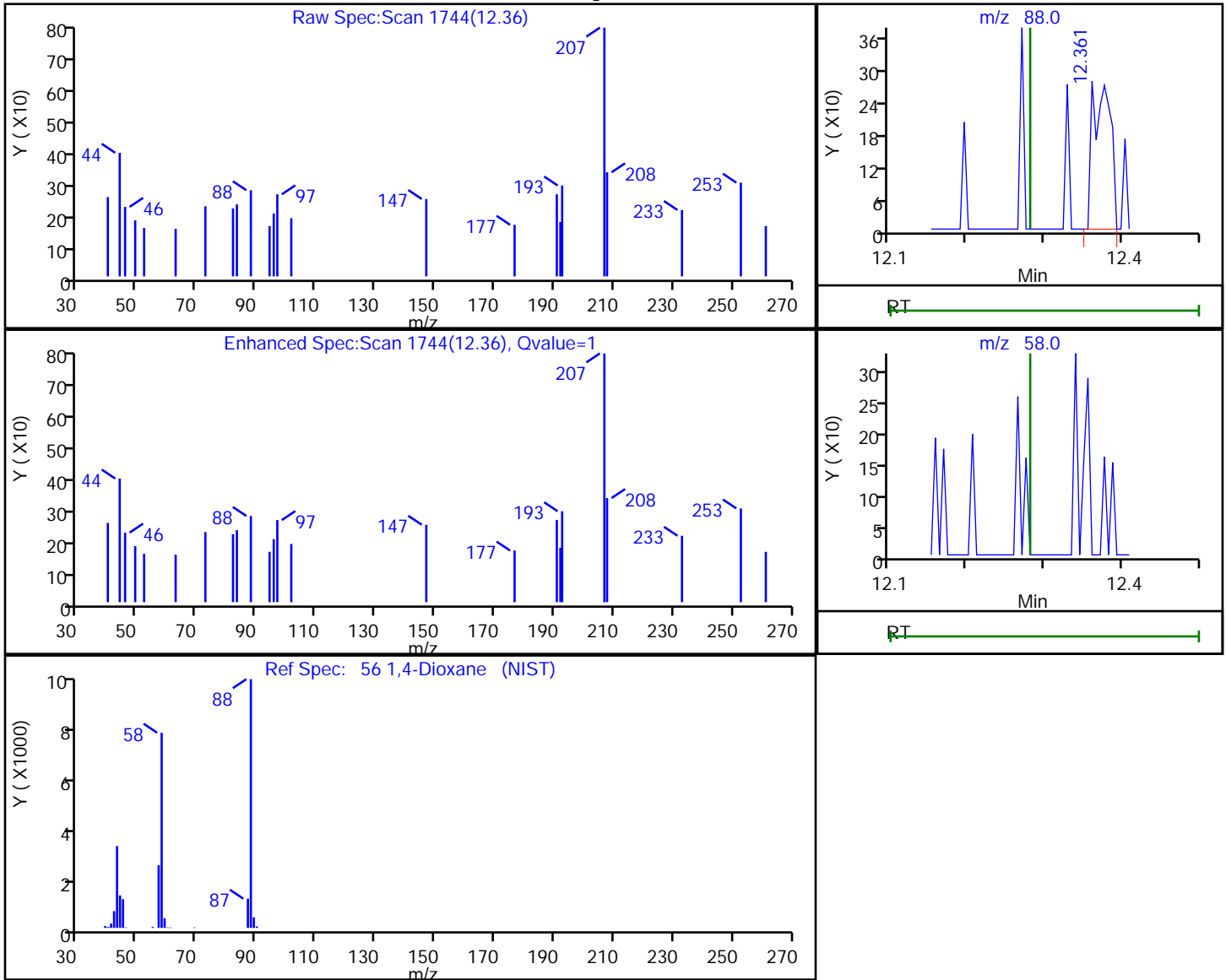
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

56 1,4-Dioxane, CAS: 123-91-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 12.36 | 88.00 | 434      | 0.020977 |
| 12.28 | 58.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:51:53

Audit Action: Marked Compound Undetected

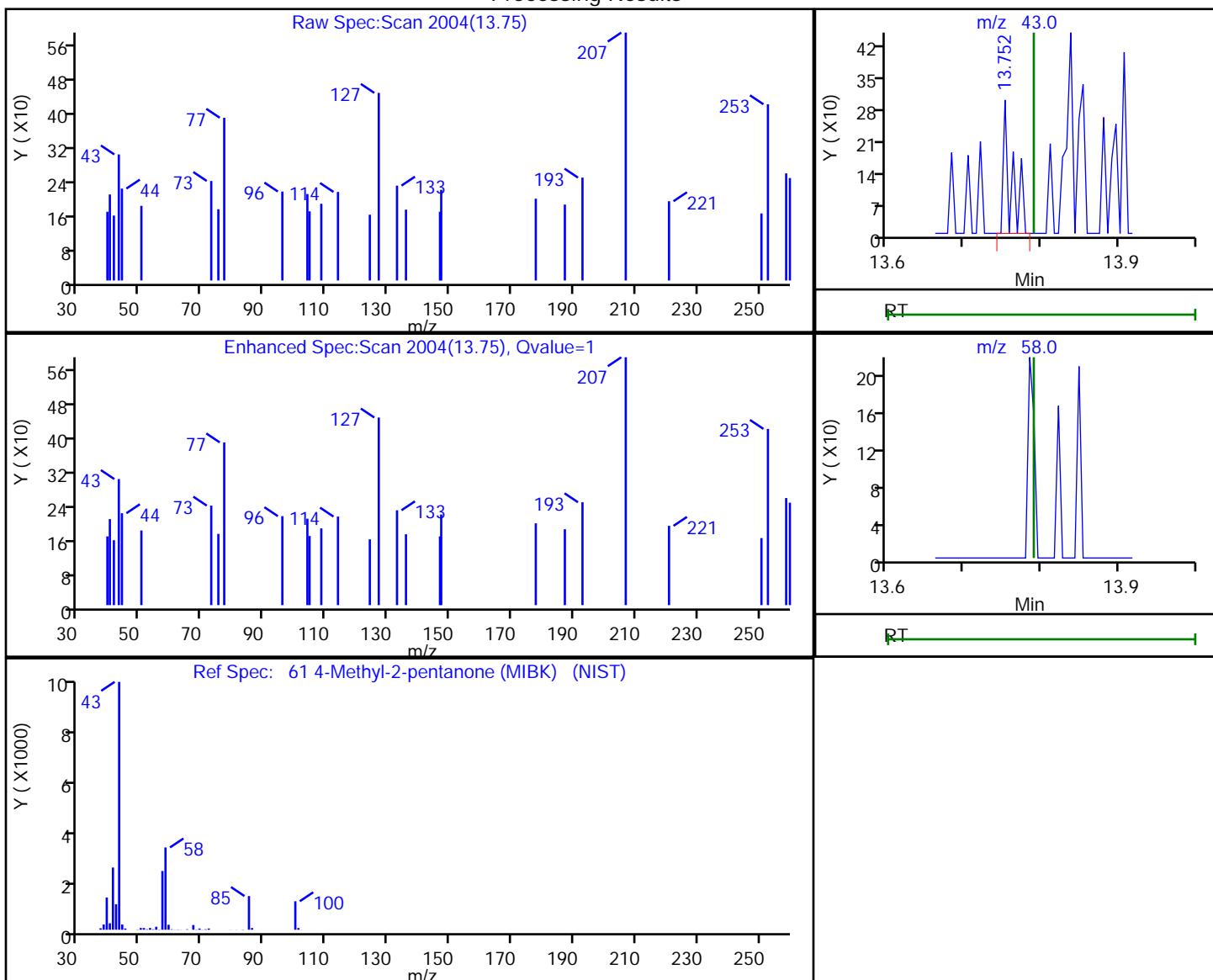
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

61 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 13.75 | 43.00 | 209      | 0.002856 |
| 13.79 | 58.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:00

Audit Action: Marked Compound Undetected

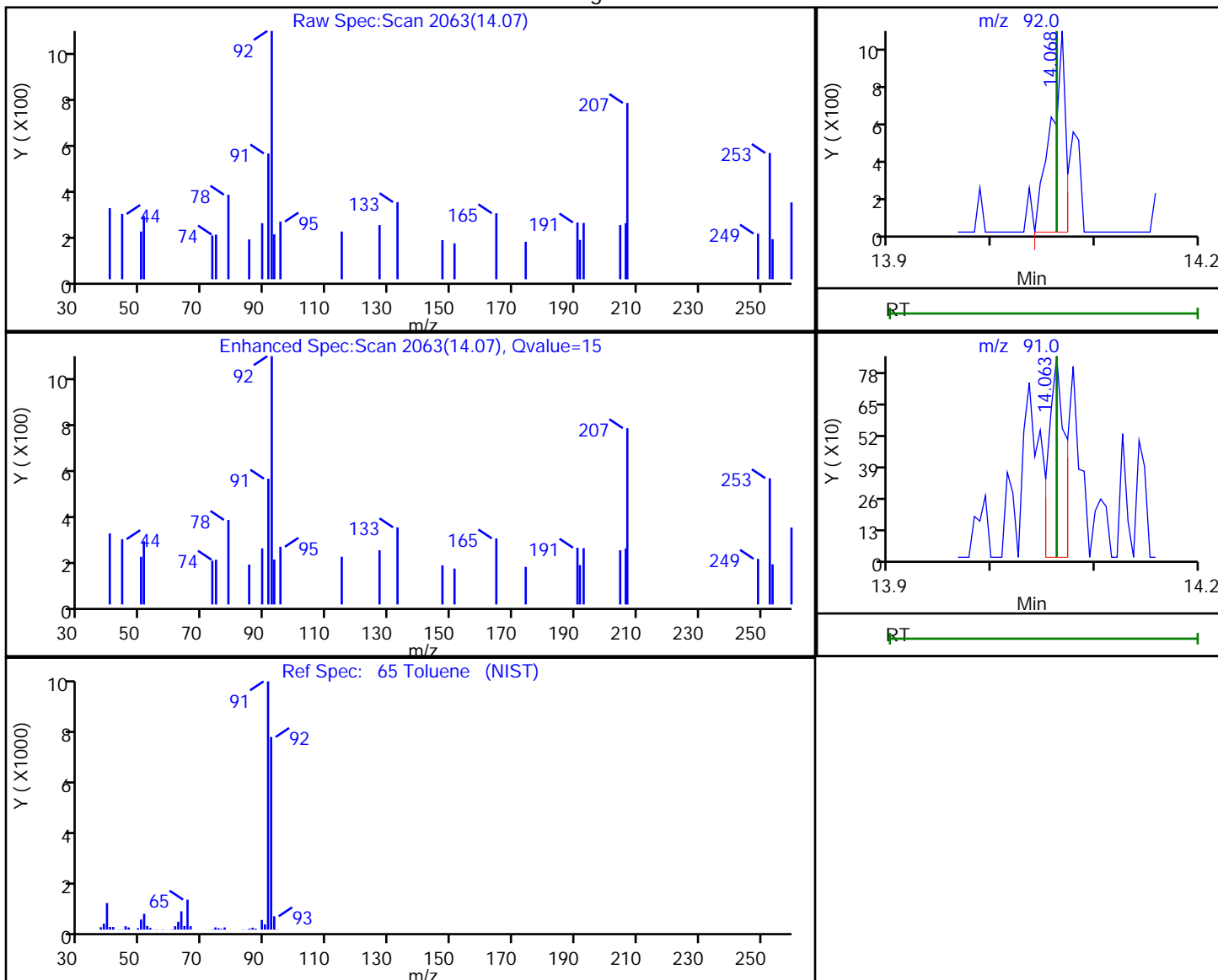
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 14.07 | 92.00 | 1028     | 0.011335 |
| 14.06 | 91.00 | 910      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:01

Audit Action: Marked Compound Undetected

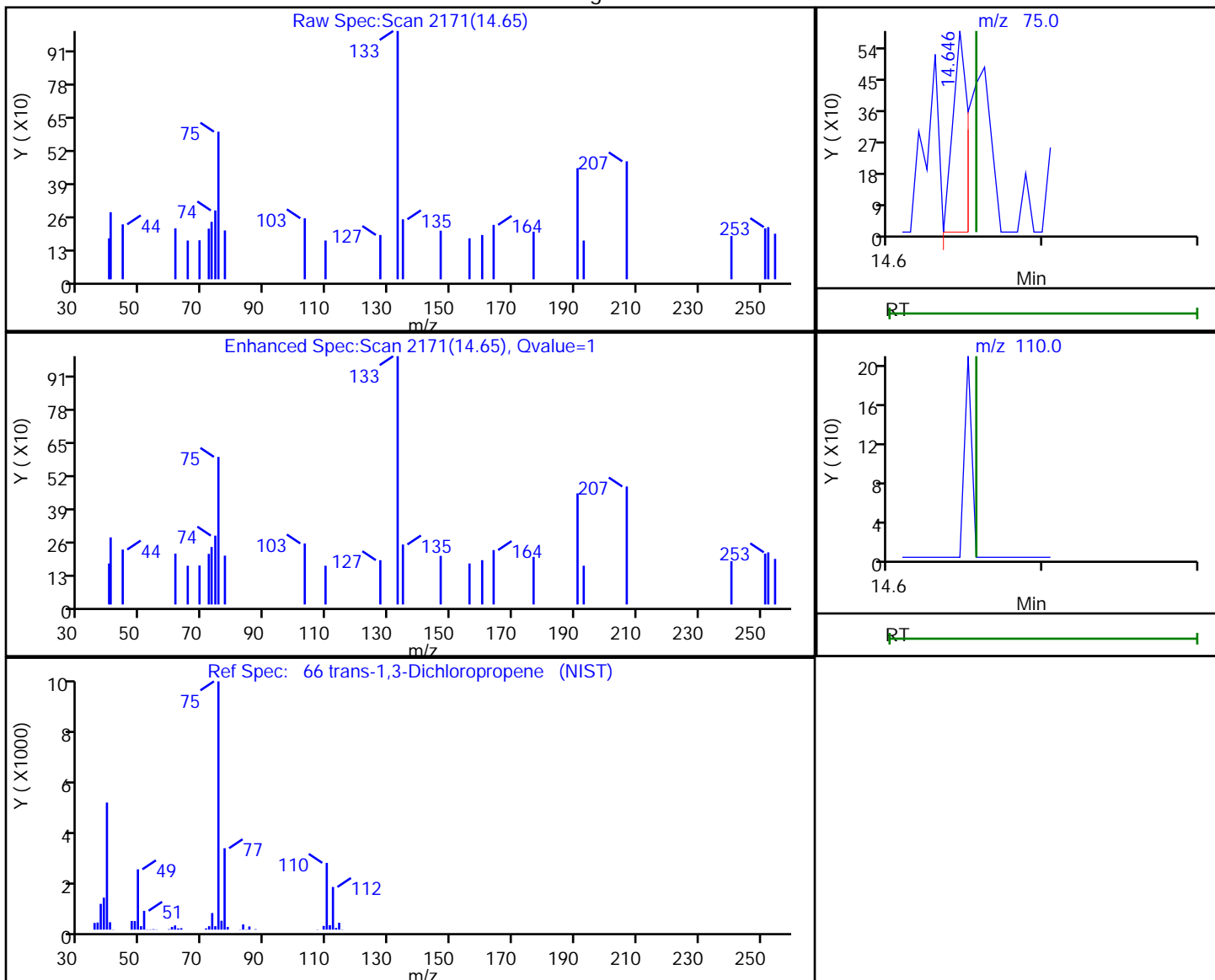
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

66 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 14.65 | 75.00  | 389      | 0.005585 |
| 14.65 | 110.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

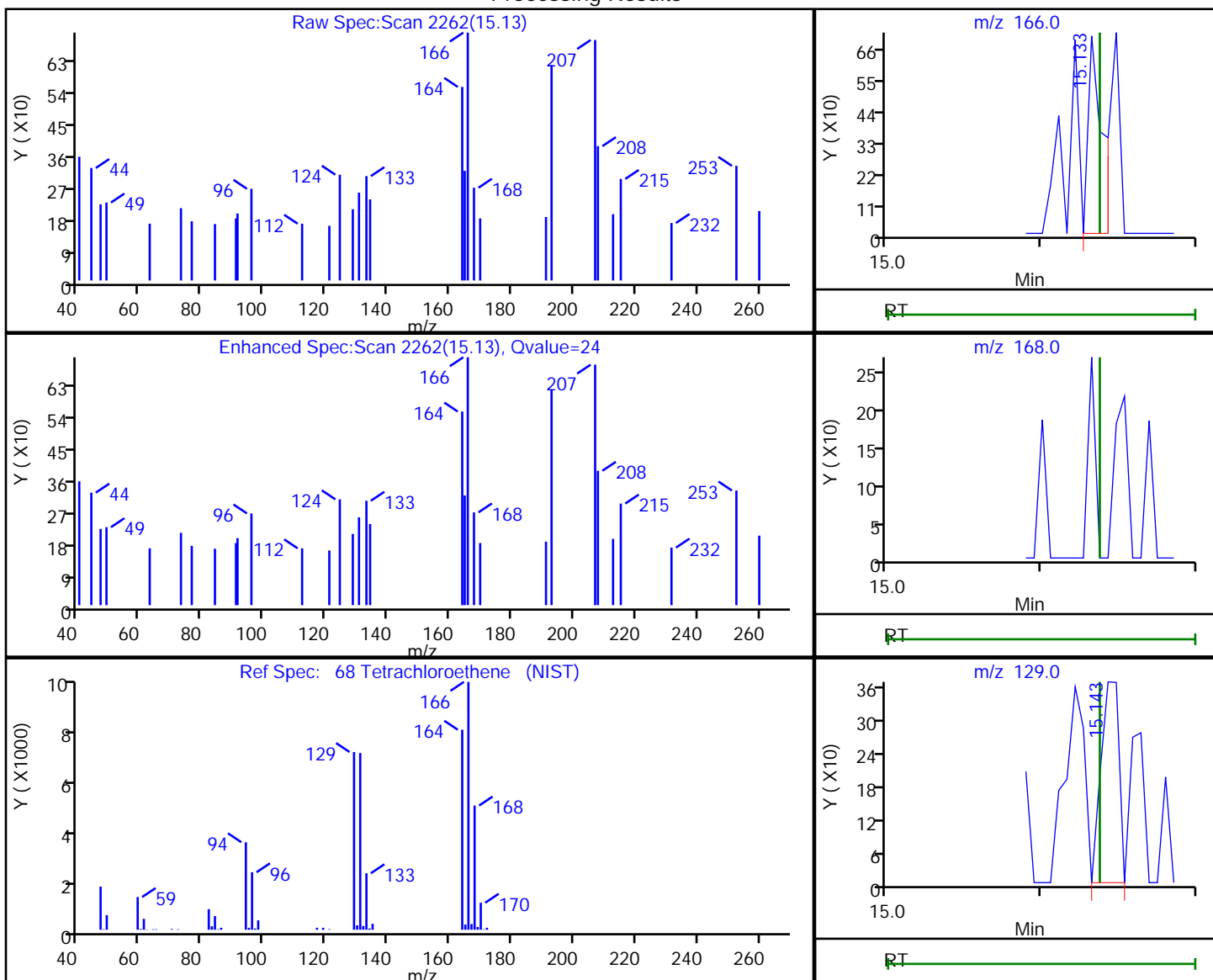


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.13 | 166.00 | 451      | 0.004153 |
| 15.14 | 129.00 | 295      |          |
| 15.14 | 168.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:07

Audit Action: Marked Compound Undetected

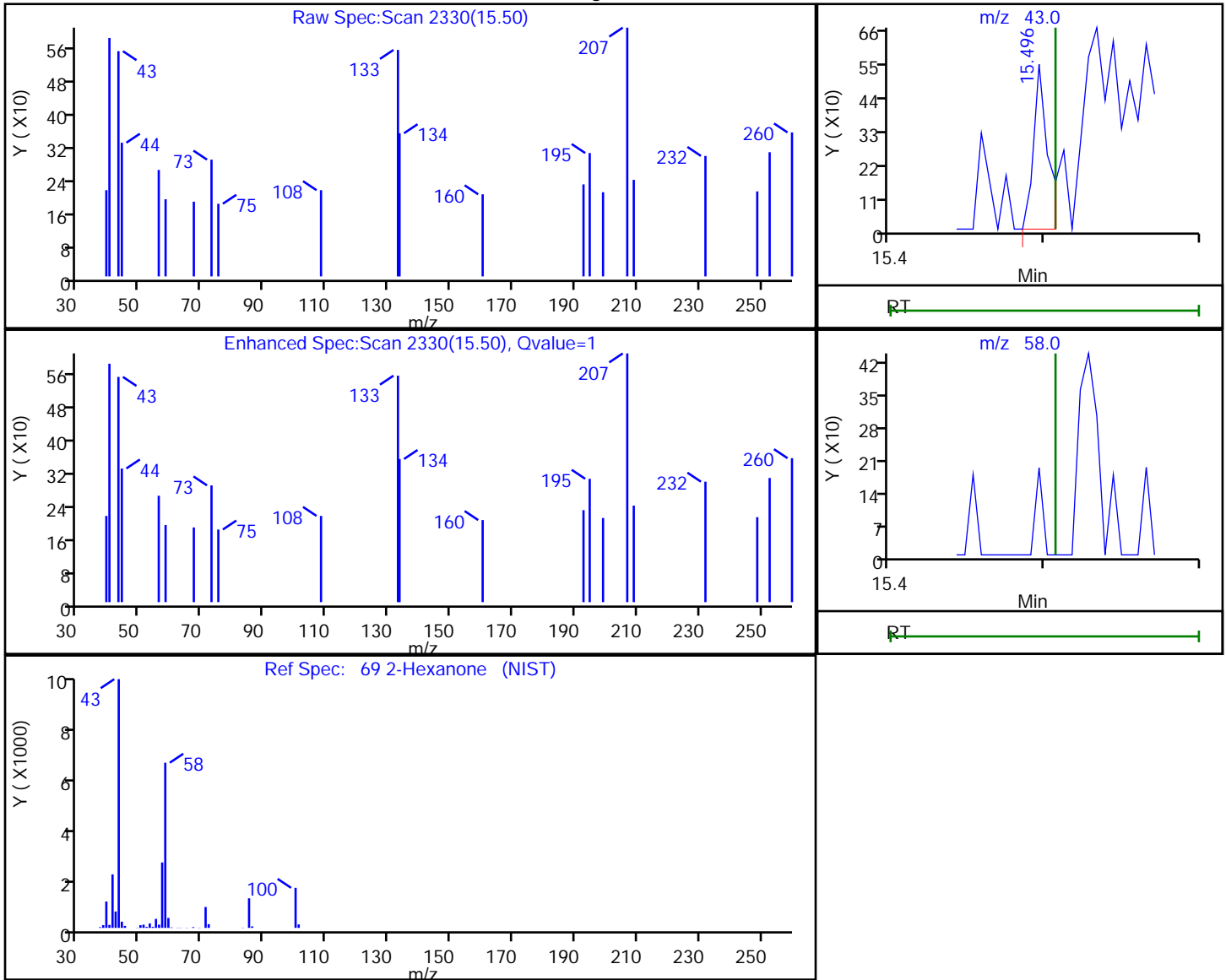
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.50 | 43.00 | 353      | 0.004429 |
| 15.51 | 58.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:09

Audit Action: Marked Compound Undetected

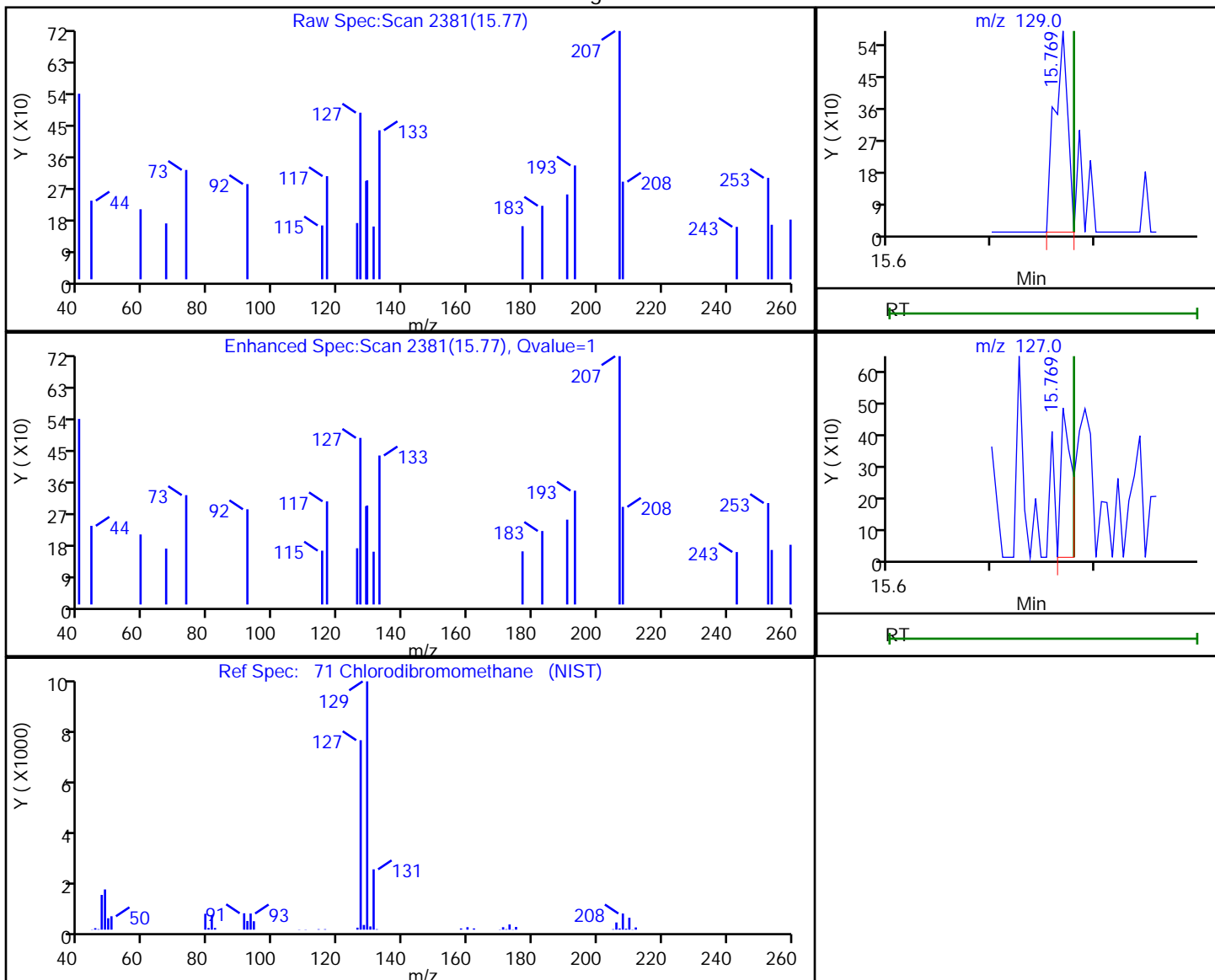
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

71 Chlorodibromomethane, CAS: 124-48-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.77 | 129.00 | 502      | 0.003827 |
| 15.77 | 127.00 | 351      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:10

Audit Action: Marked Compound Undetected

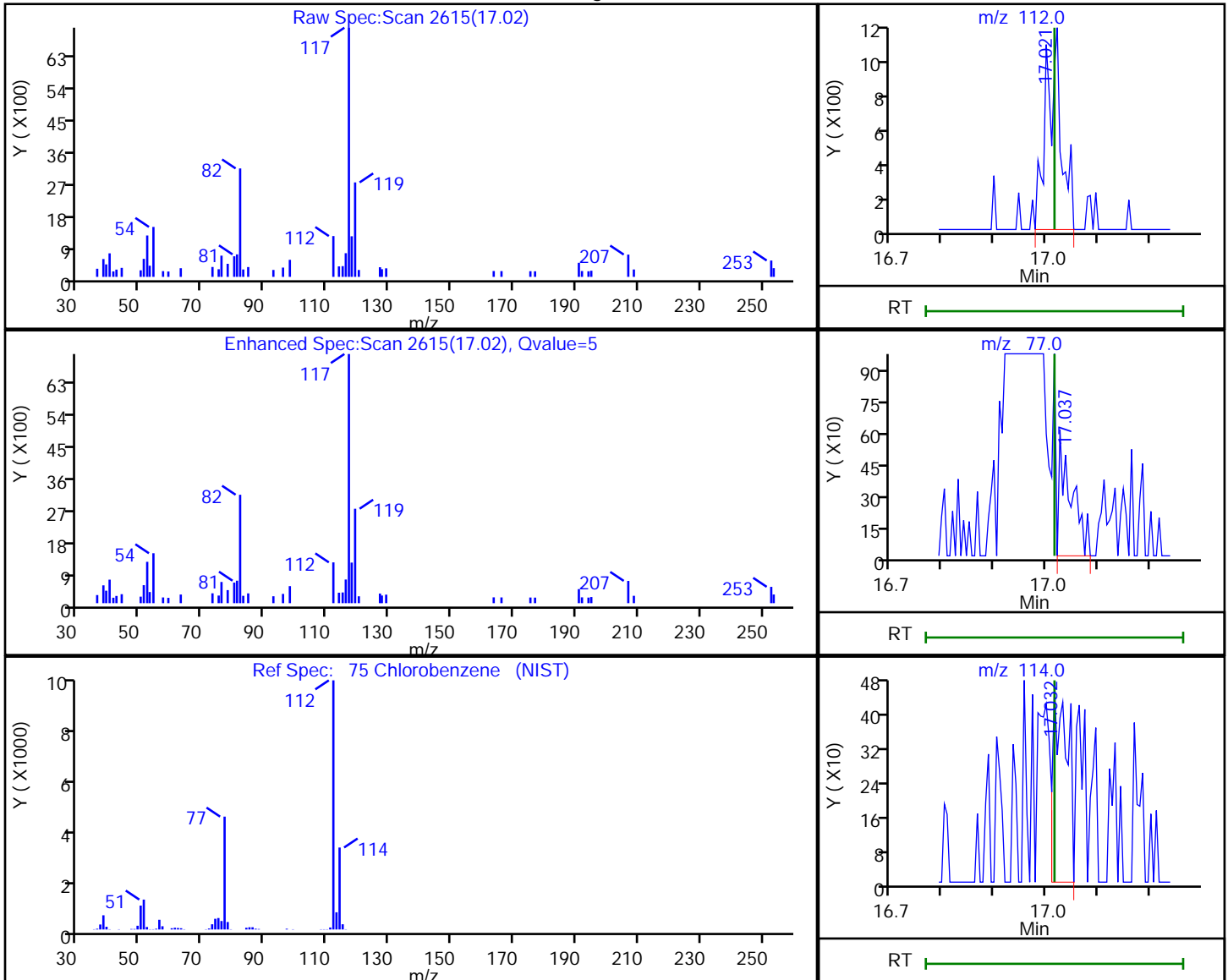
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.02 | 112.00 | 2319     | 0.016624 |
| 17.04 | 77.00  | 997      |          |
| 17.03 | 114.00 | 885      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:15

Audit Action: Marked Compound Undetected

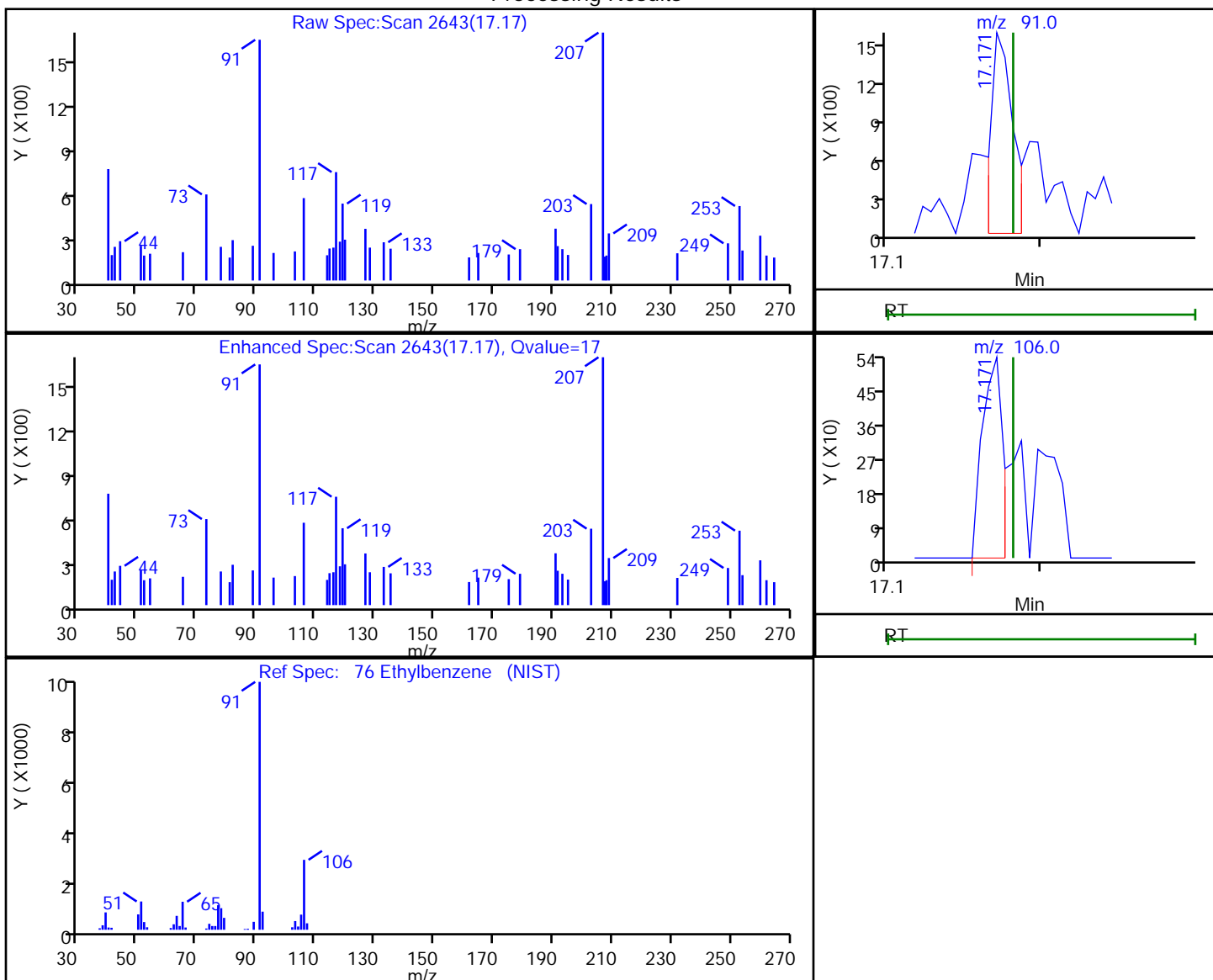
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.17 | 91.00  | 1574     | 0.007707 |
| 17.17 | 106.00 | 500      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:16

Audit Action: Marked Compound Undetected

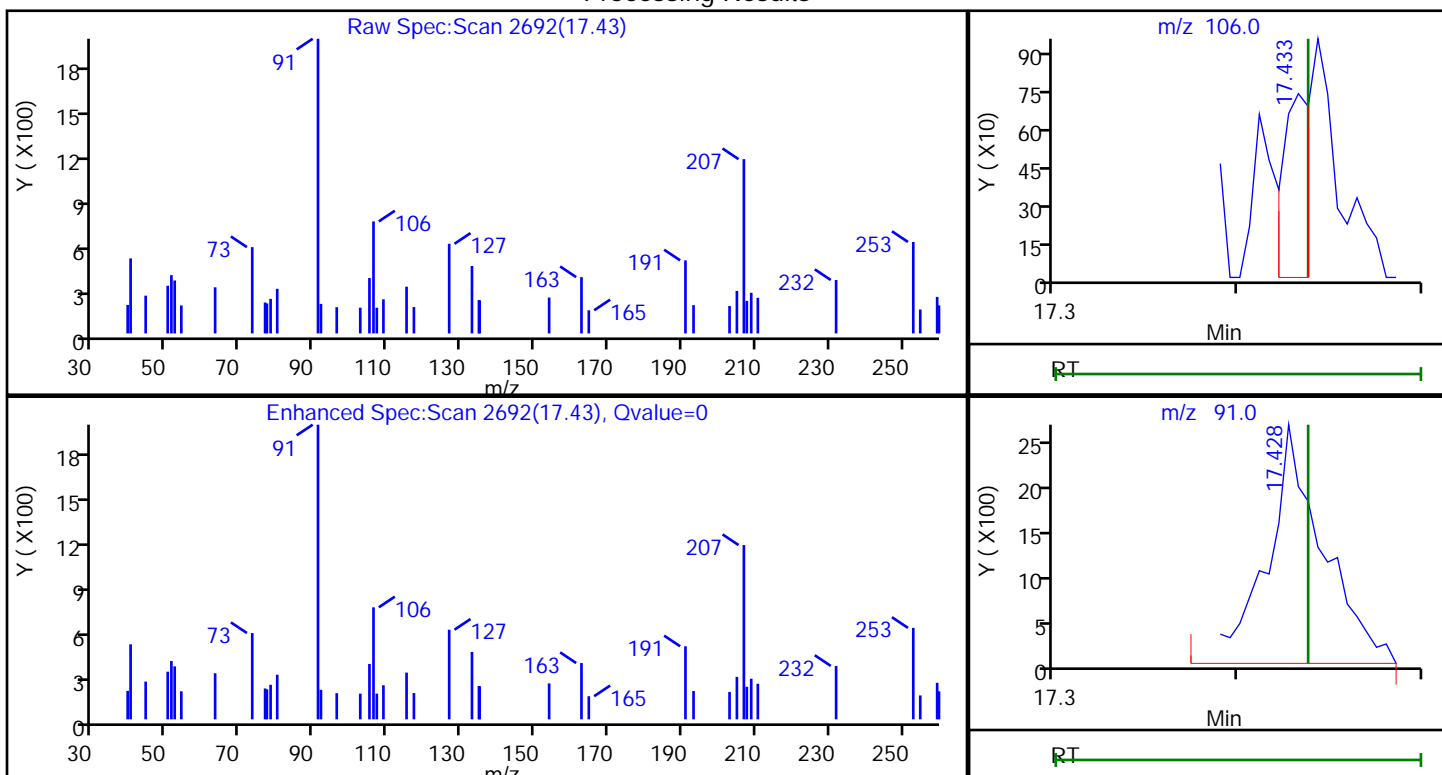
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.43 | 106.00 | 779      | 0.009410 |
| 17.43 | 91.00  | 5679     |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:19

Audit Action: Marked Compound Undetected

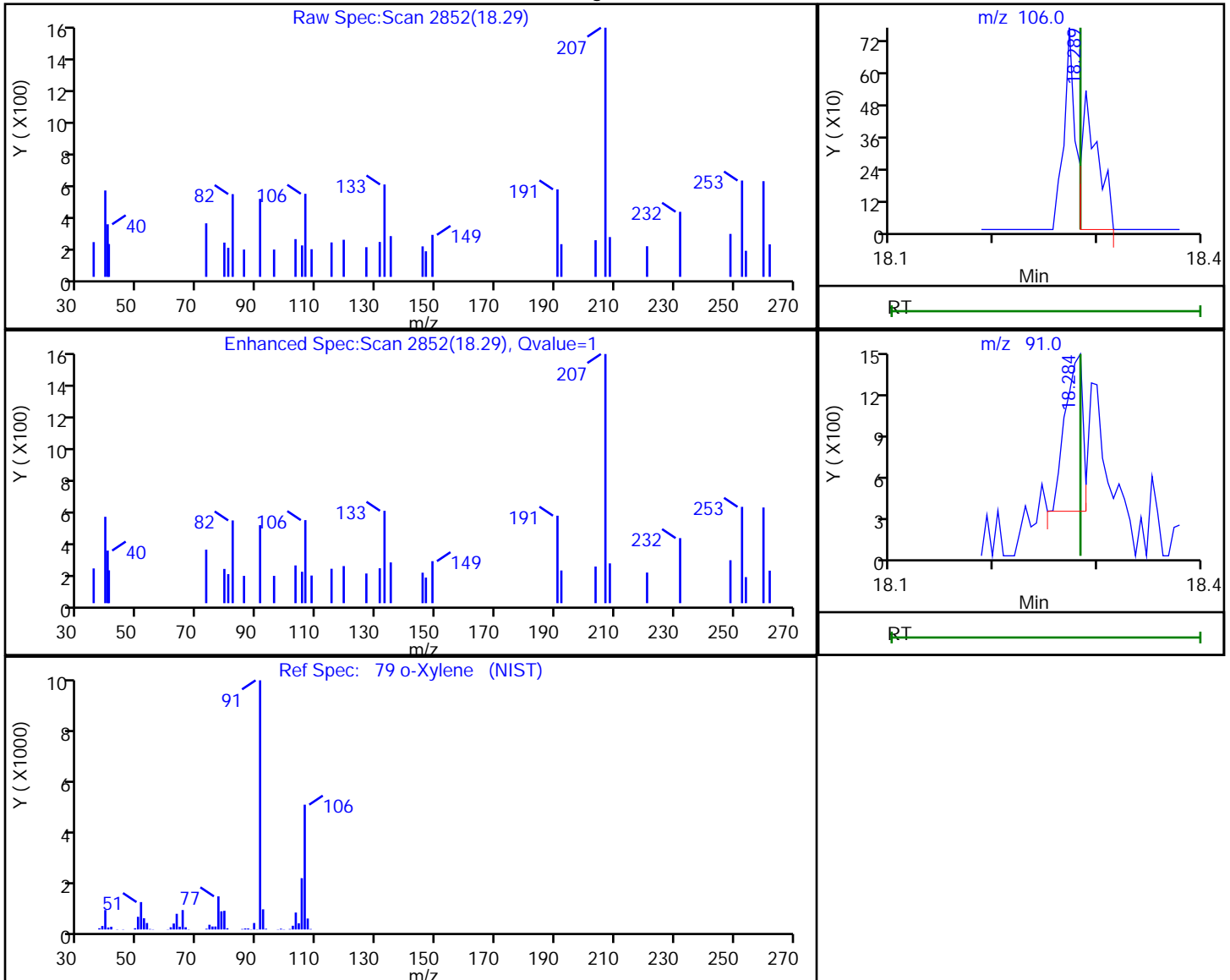
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

79 o-Xylene, CAS: 95-47-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.29 | 106.00 | 572      | 0.007270 |
| 18.28 | 91.00  | 1304     |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:20

Audit Action: Marked Compound Undetected

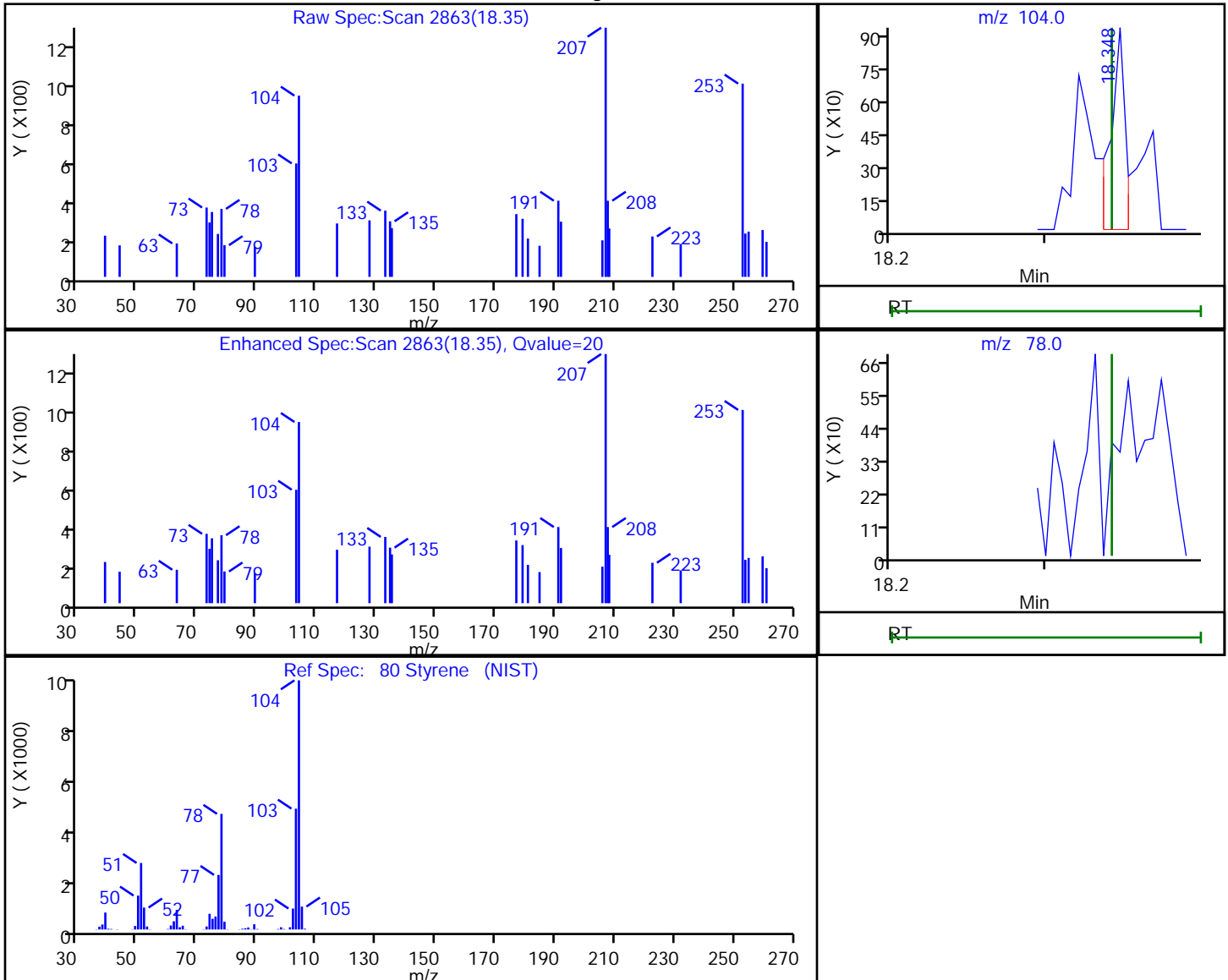
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

80 Styrene, CAS: 100-42-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.35 | 104.00 | 620      | 0.005148 |
| 18.34 | 78.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

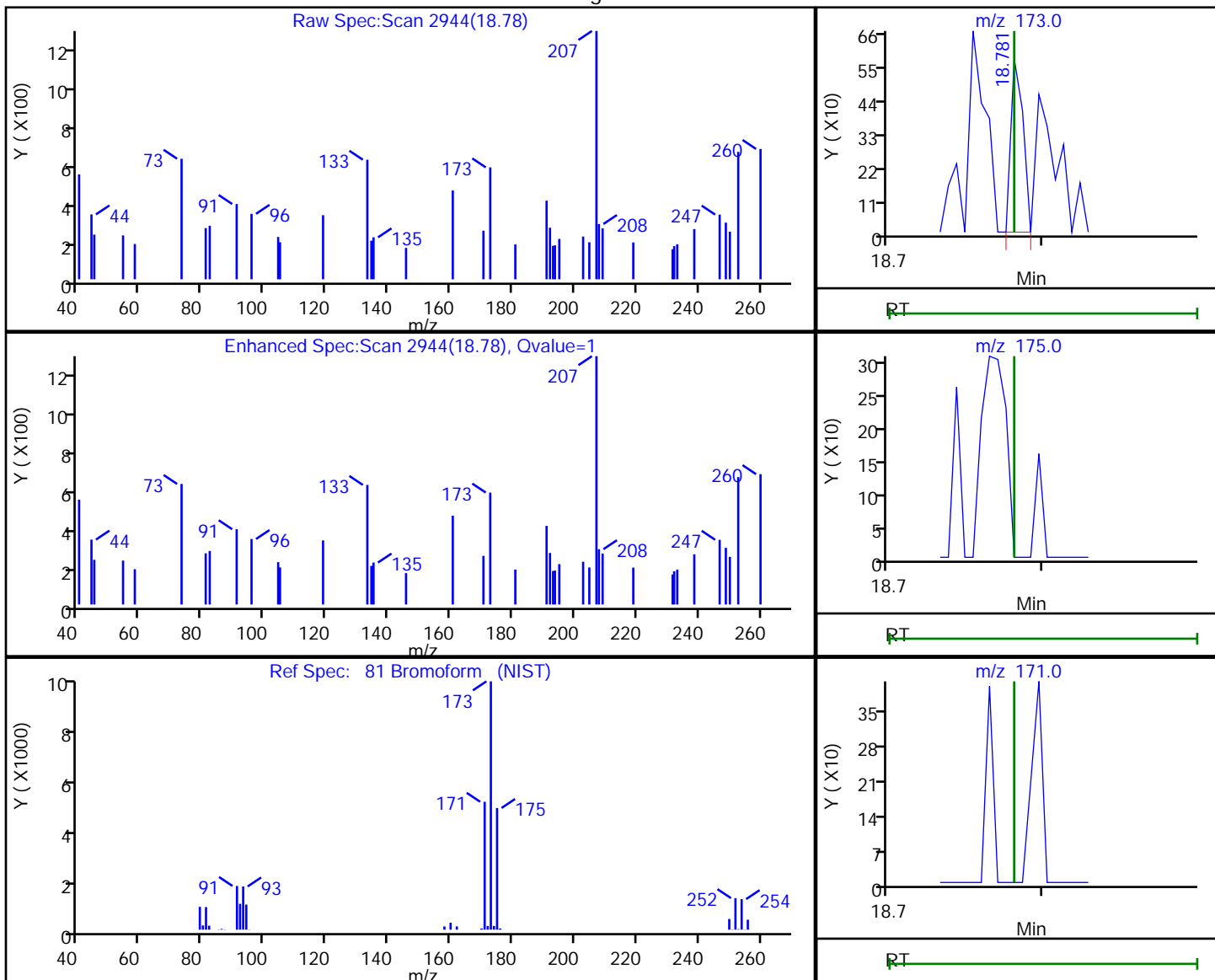


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

81 Bromoform, CAS: 75-25-2

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.78 | 173.00 | 312      | 0.002629 |
| 18.78 | 175.00 | 0        |          |
| 18.78 | 171.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:23

Audit Action: Marked Compound Undetected

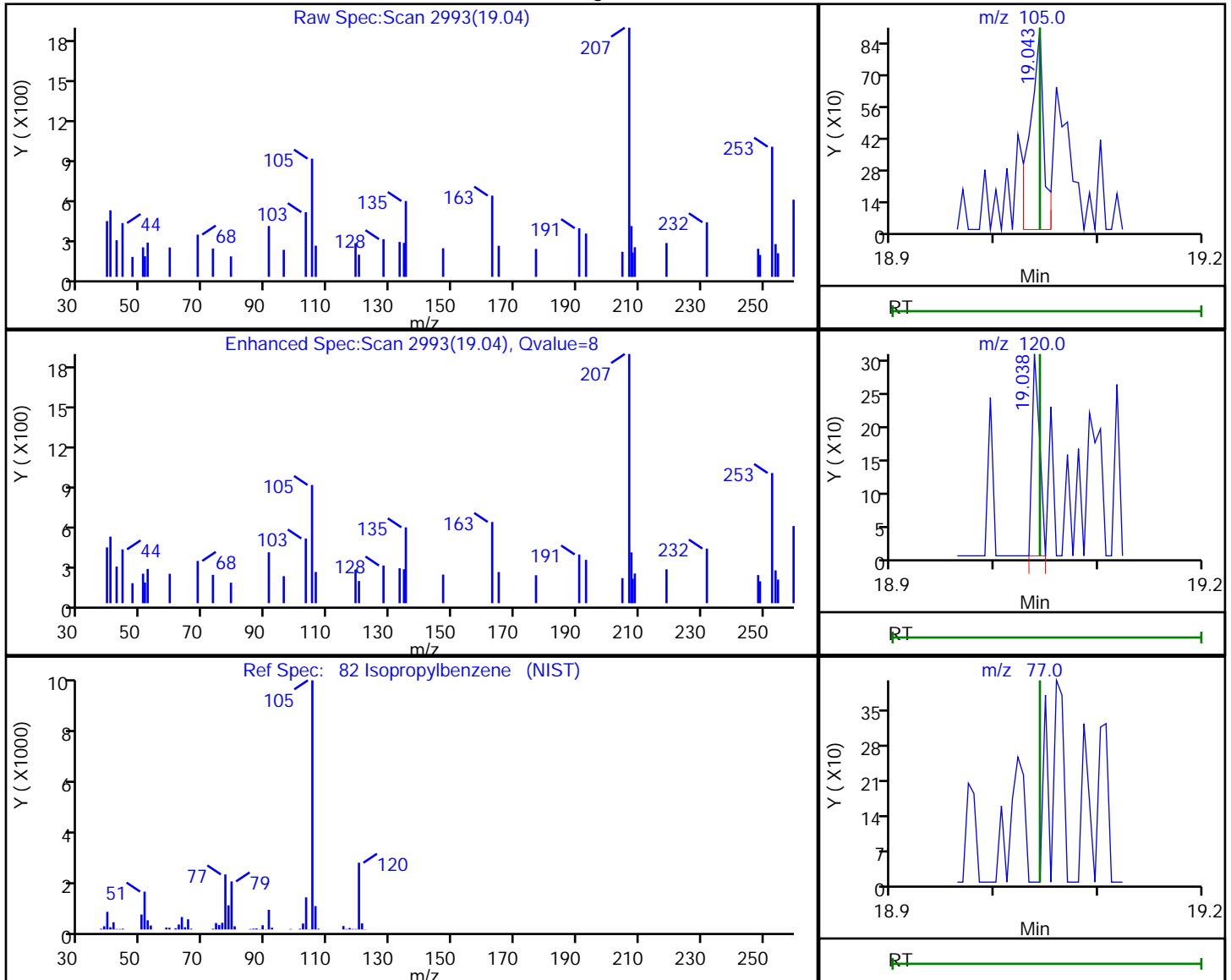
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.04 | 105.00 | 829      | 0.003604 |
| 19.04 | 120.00 | 152      |          |
| 19.04 | 77.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:25

Audit Action: Marked Compound Undetected

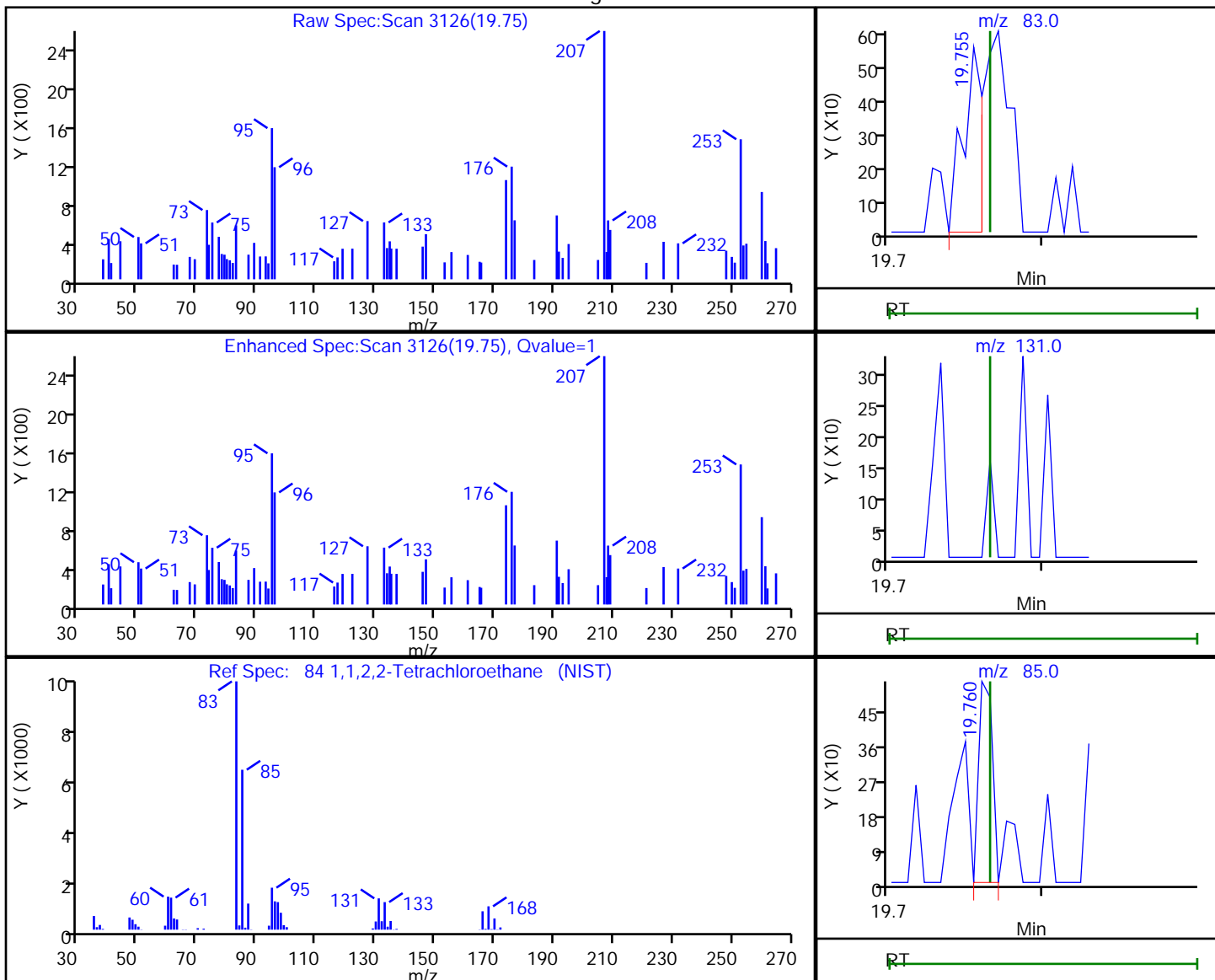
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

84 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.75 | 83.00  | 486      | 0.003872 |
| 19.76 | 85.00  | 325      |          |
| 19.76 | 131.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:26

Audit Action: Marked Compound Undetected

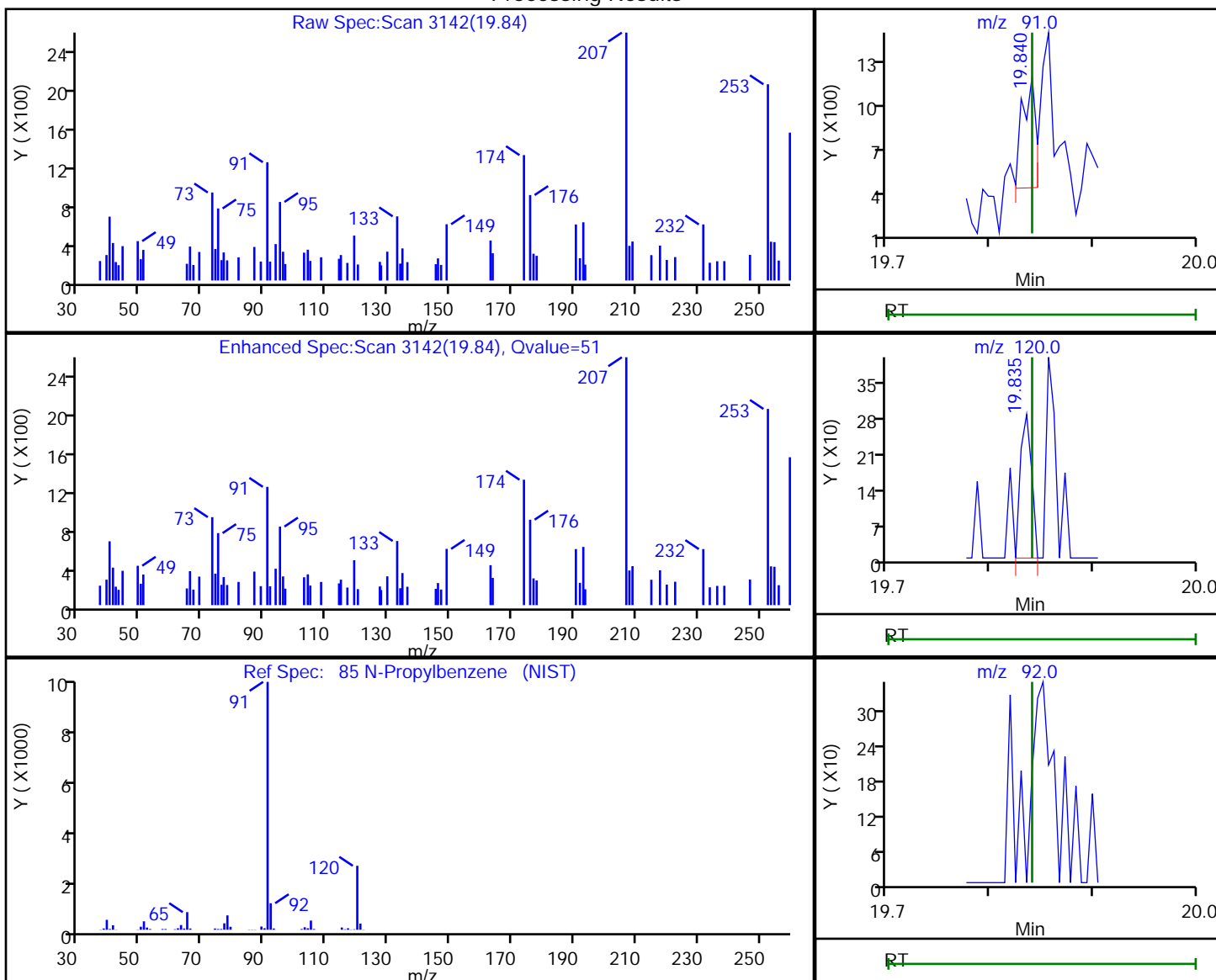
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.84 | 91.00  | 670      | 0.002446 |
| 19.83 | 120.00 | 211      |          |
| 19.85 | 92.00  | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:27

Audit Action: Marked Compound Undetected

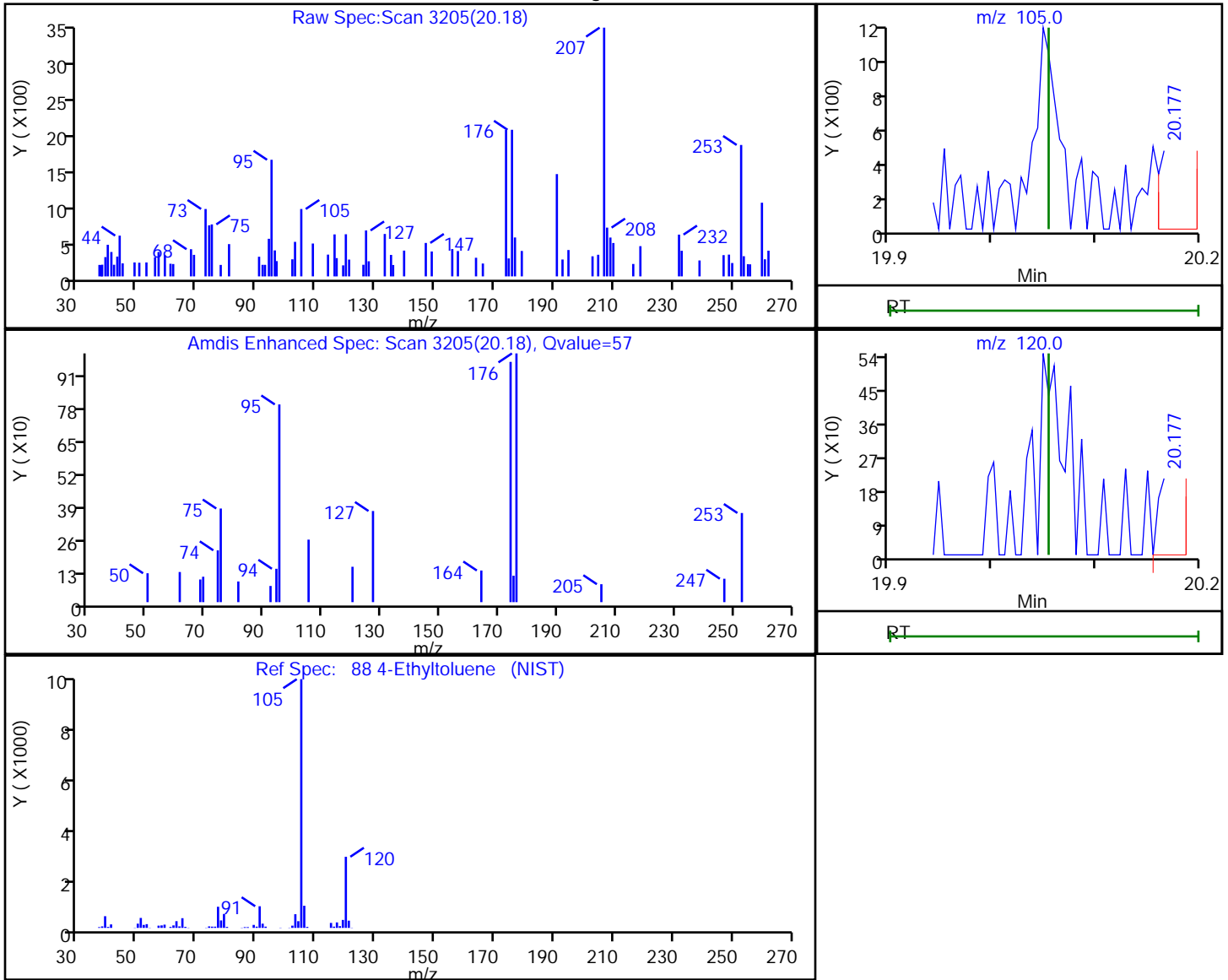
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.18 | 105.00 | 1112     | 0.004768 |
| 20.18 | 120.00 | 525      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:32

Audit Action: Marked Compound Undetected

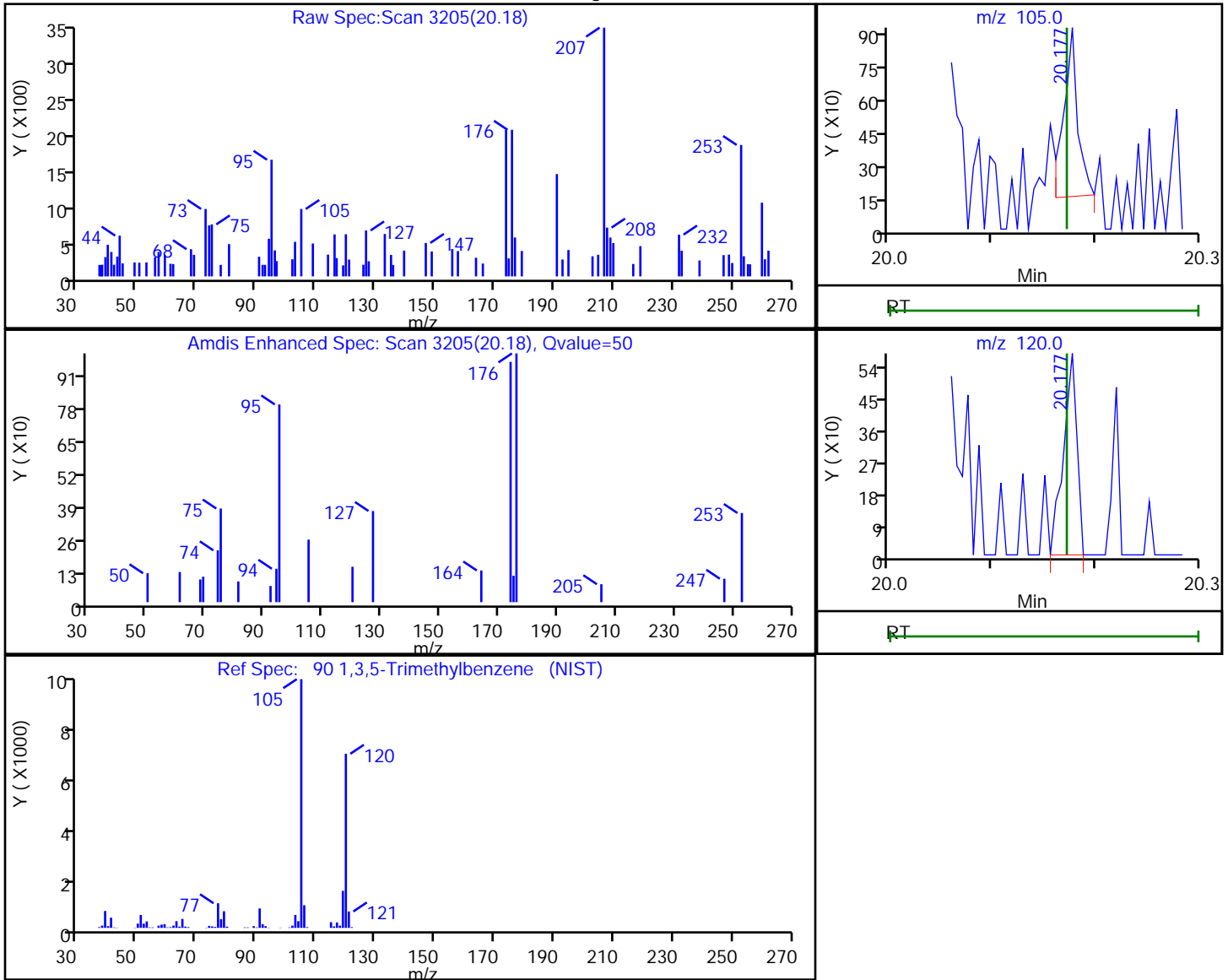
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.18 | 105.00 | 725      | 0.003634 |
| 20.18 | 120.00 | 525      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:35

Audit Action: Marked Compound Undetected

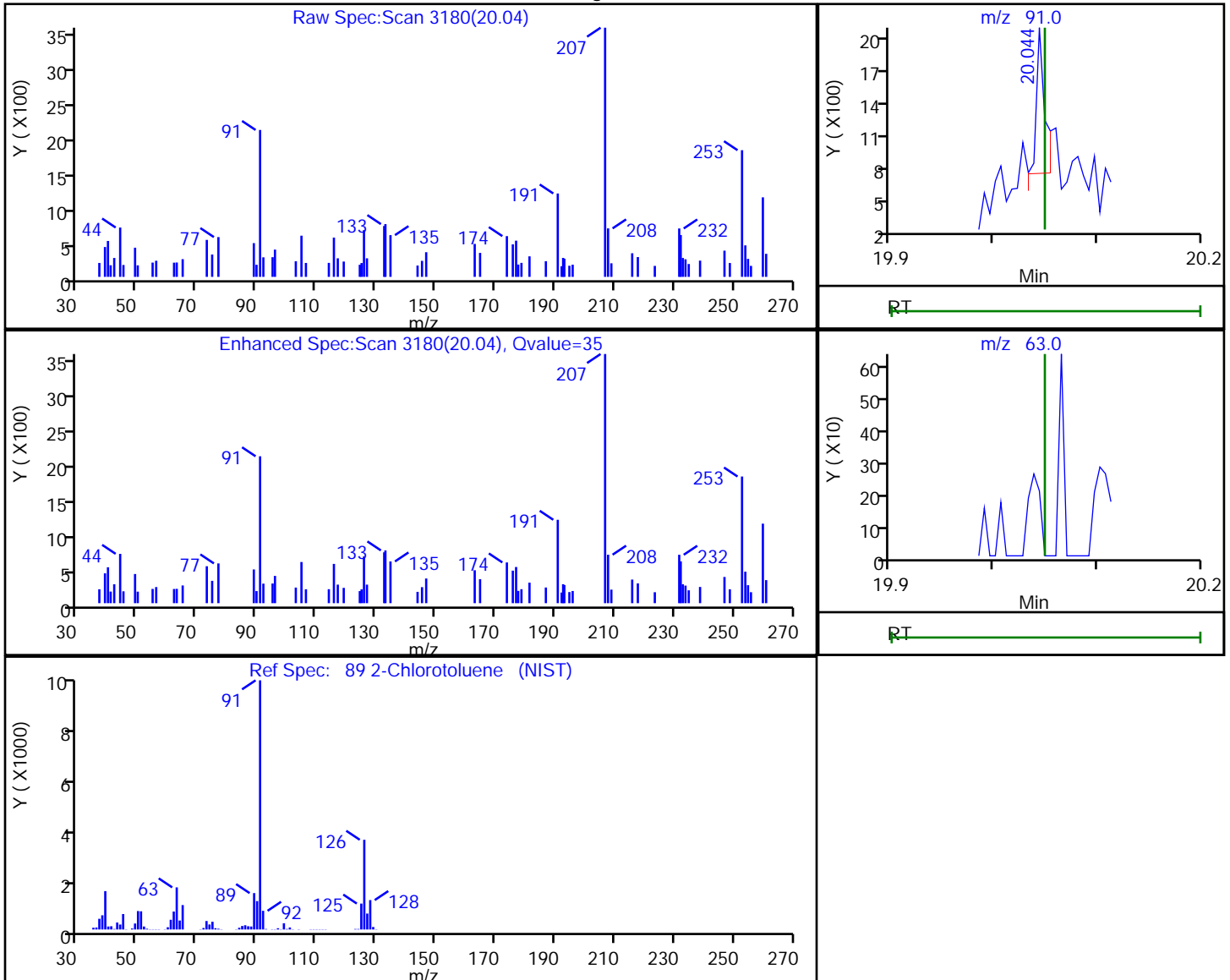
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.04 | 91.00 | 757      | 0.003659 |
| 20.04 | 63.00 | 0        |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:31

Audit Action: Marked Compound Undetected

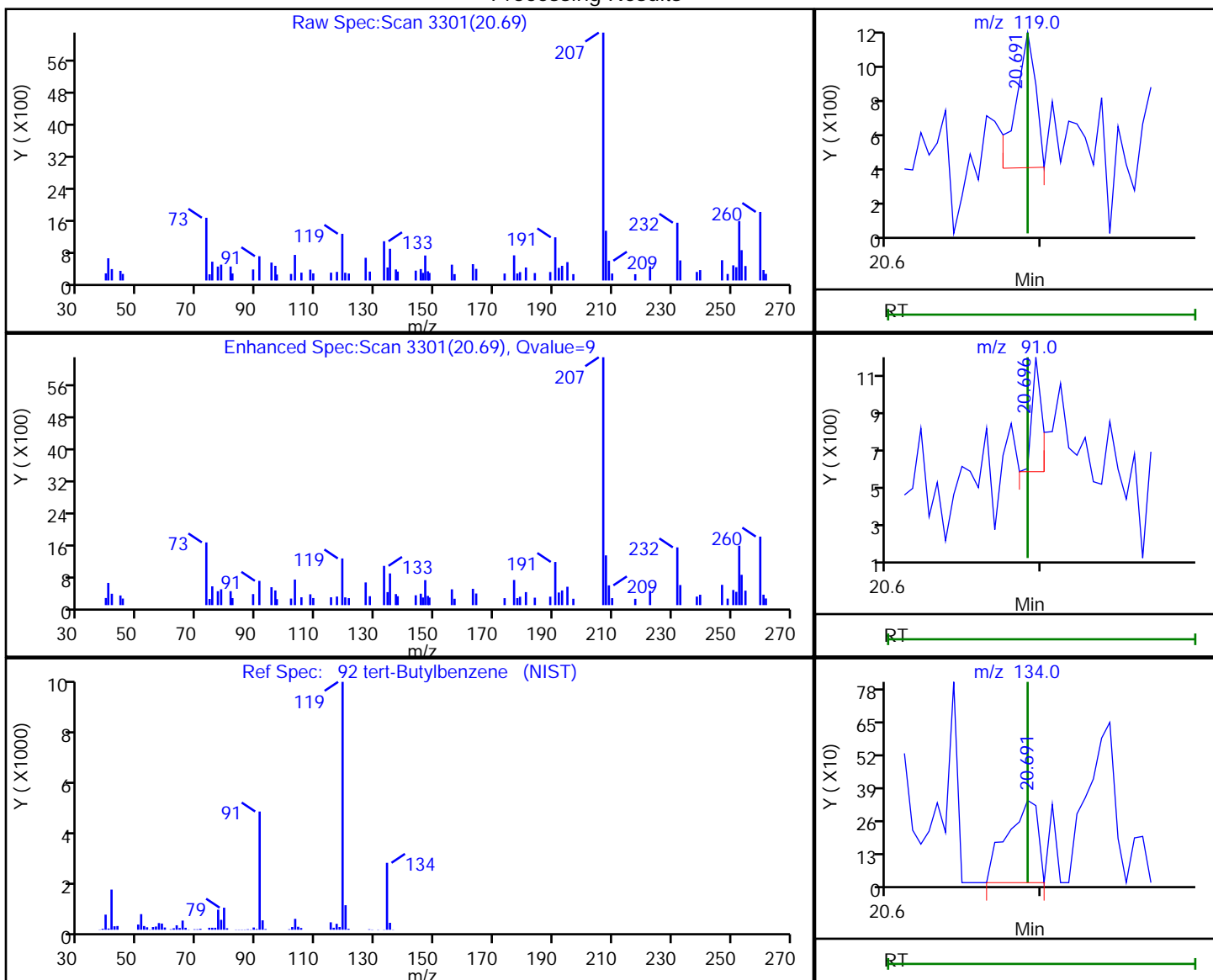
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.69 | 119.00 | 704      | 0.003772 |
| 20.70 | 91.00  | 258      |          |
| 20.69 | 134.00 | 455      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

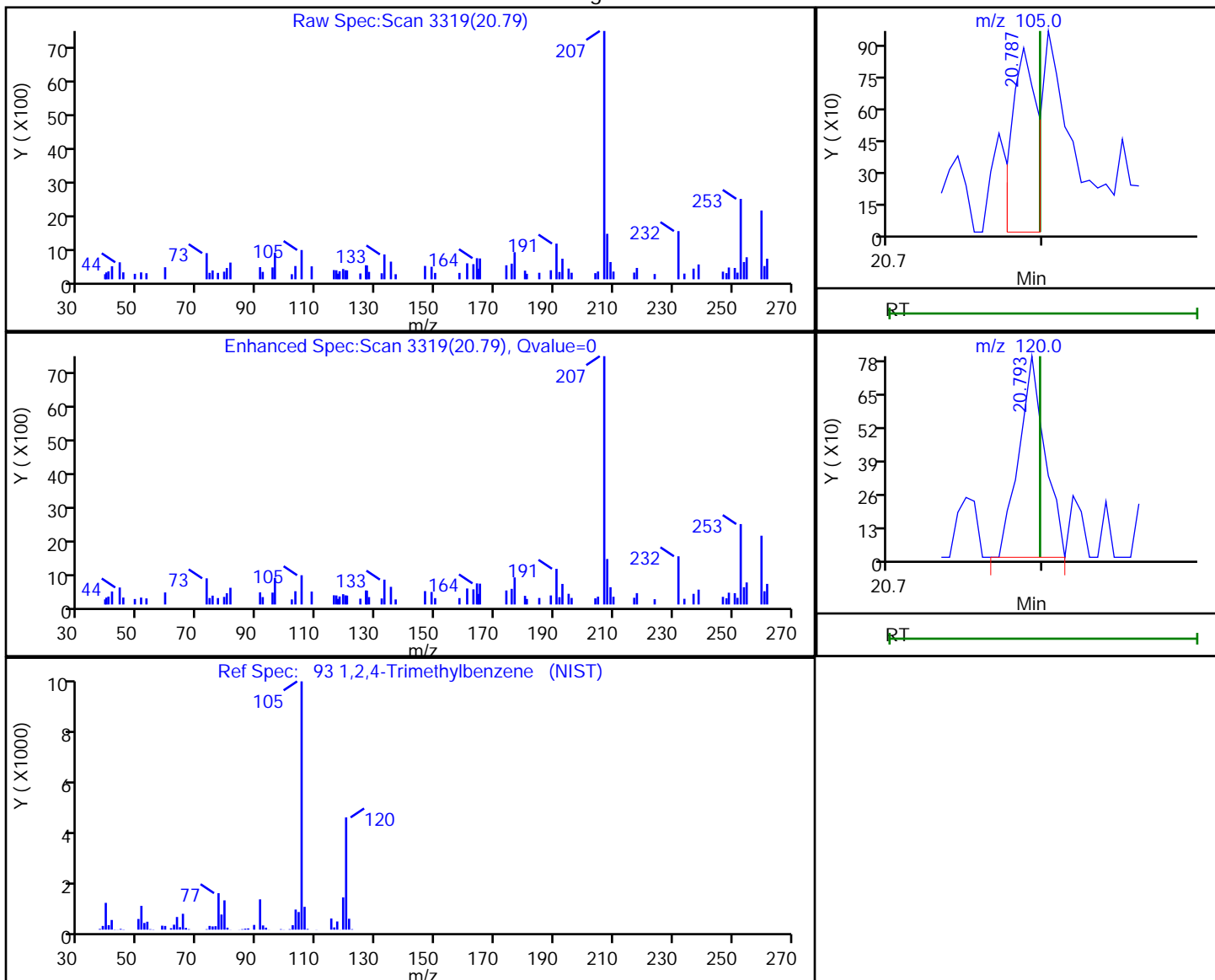


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.79 | 105.00 | 1004     | 0.005100 |
| 20.79 | 120.00 | 932      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:38

Audit Action: Marked Compound Undetected

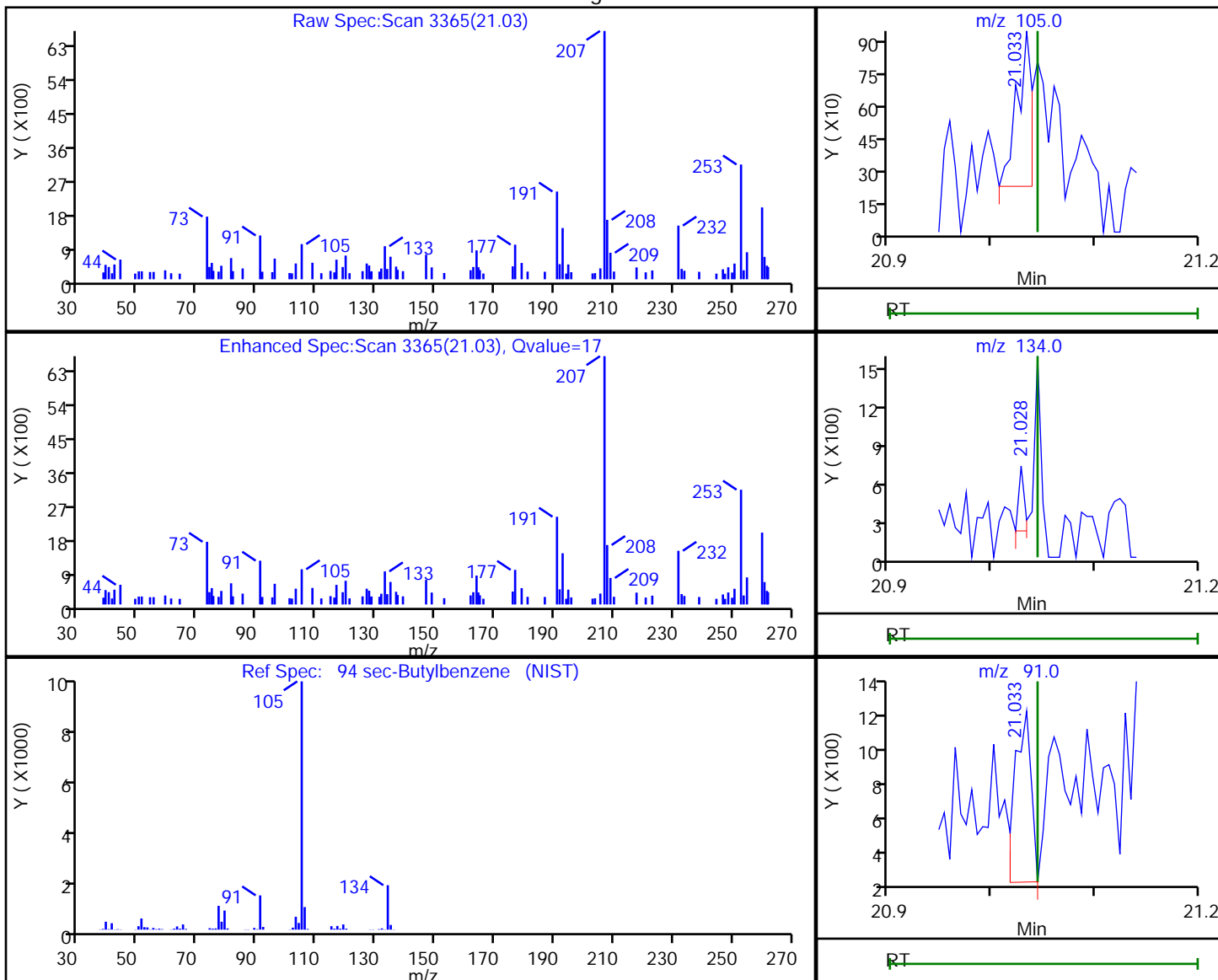
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.03 | 105.00 | 715      | 0.002584 |
| 21.03 | 134.00 | 181      |          |
| 21.03 | 91.00  | 995      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:40

Audit Action: Marked Compound Undetected

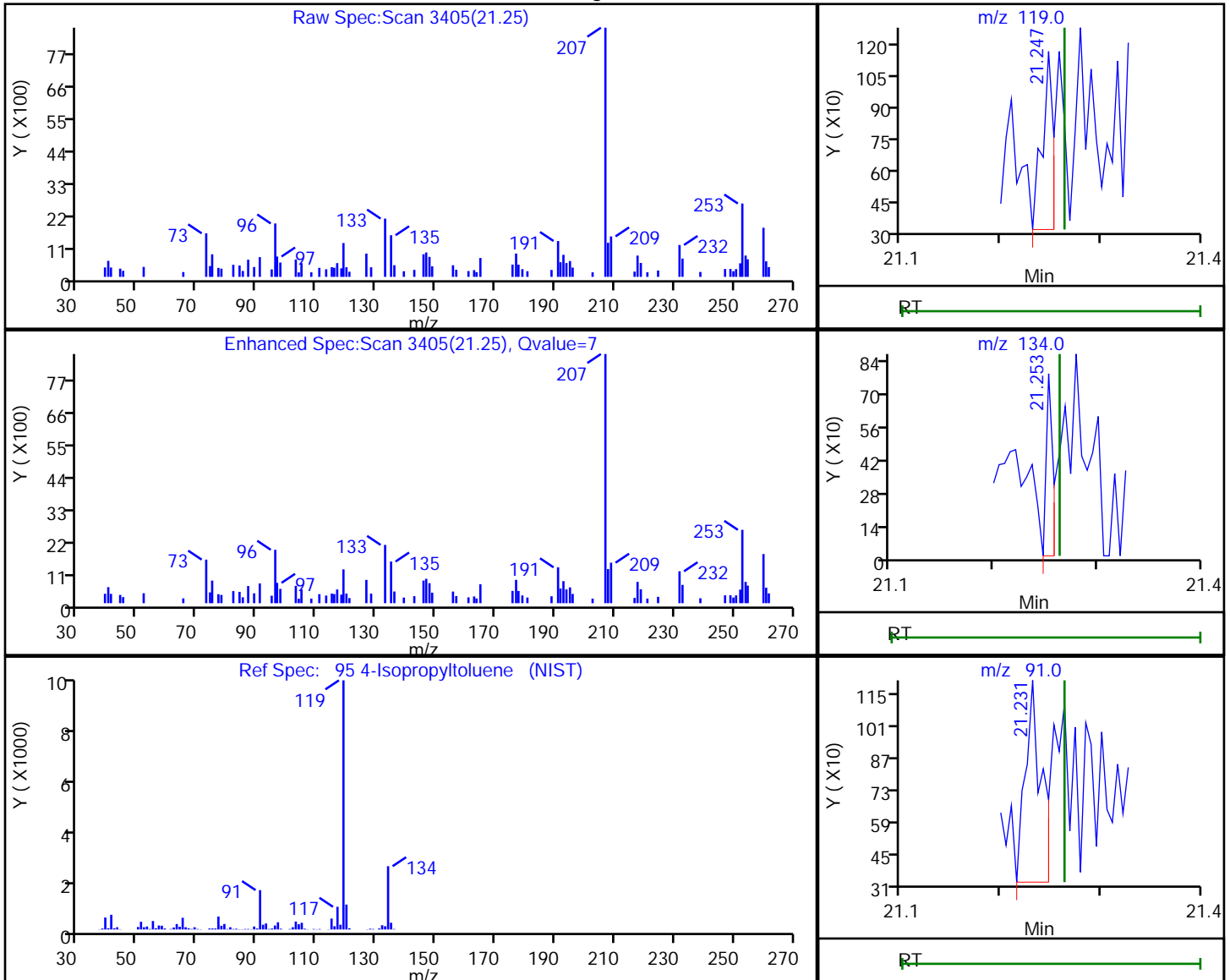
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
 Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.25 | 119.00 | 653      | 0.002753 |
| 21.25 | 134.00 | 347      |          |
| 21.23 | 91.00  | 992      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:41

Audit Action: Marked Compound Undetected

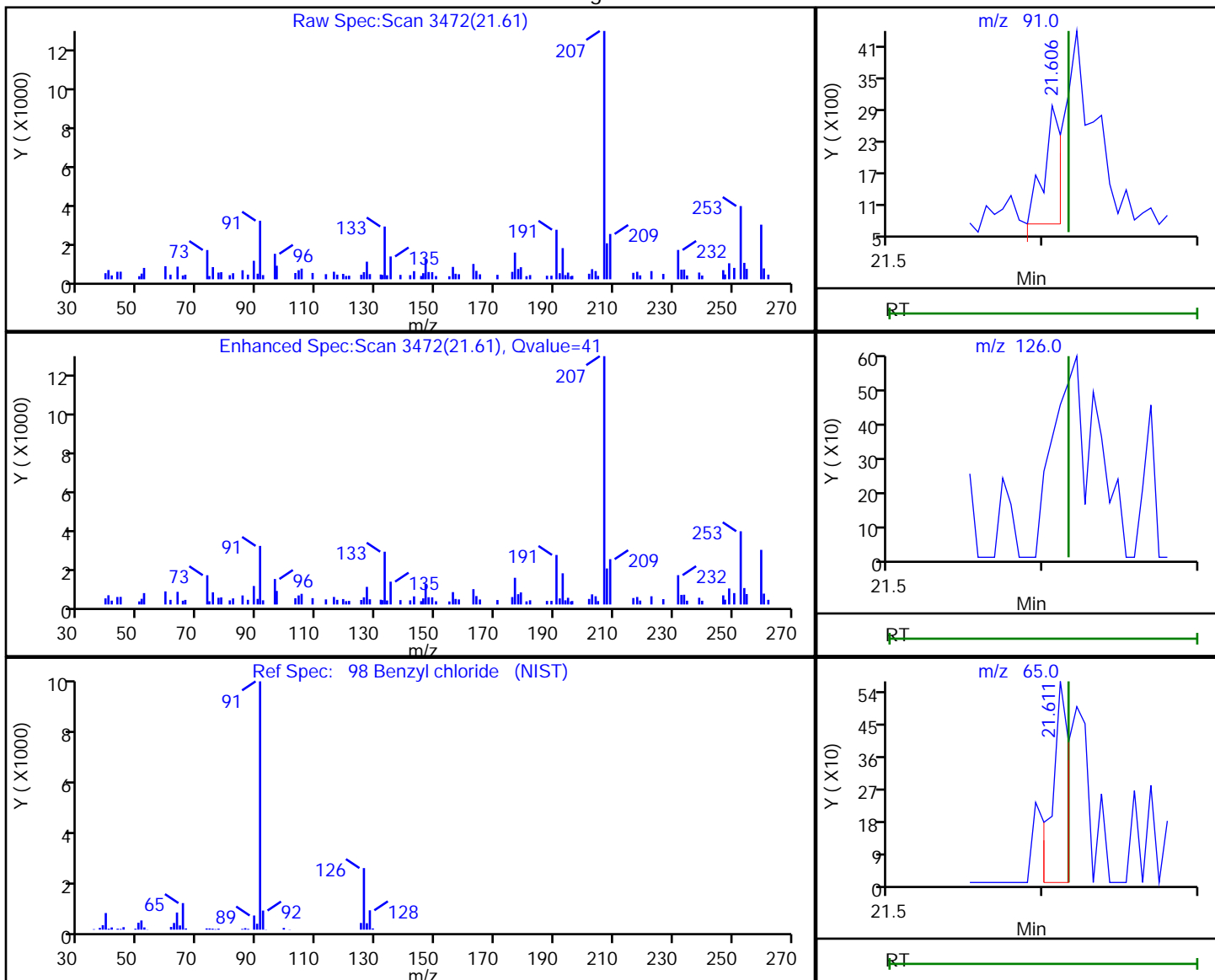
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.61 | 91.00  | 1740     | 0.009240 |
| 21.62 | 126.00 | 0        |          |
| 21.61 | 65.00  | 422      |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:46

Audit Action: Marked Compound Undetected

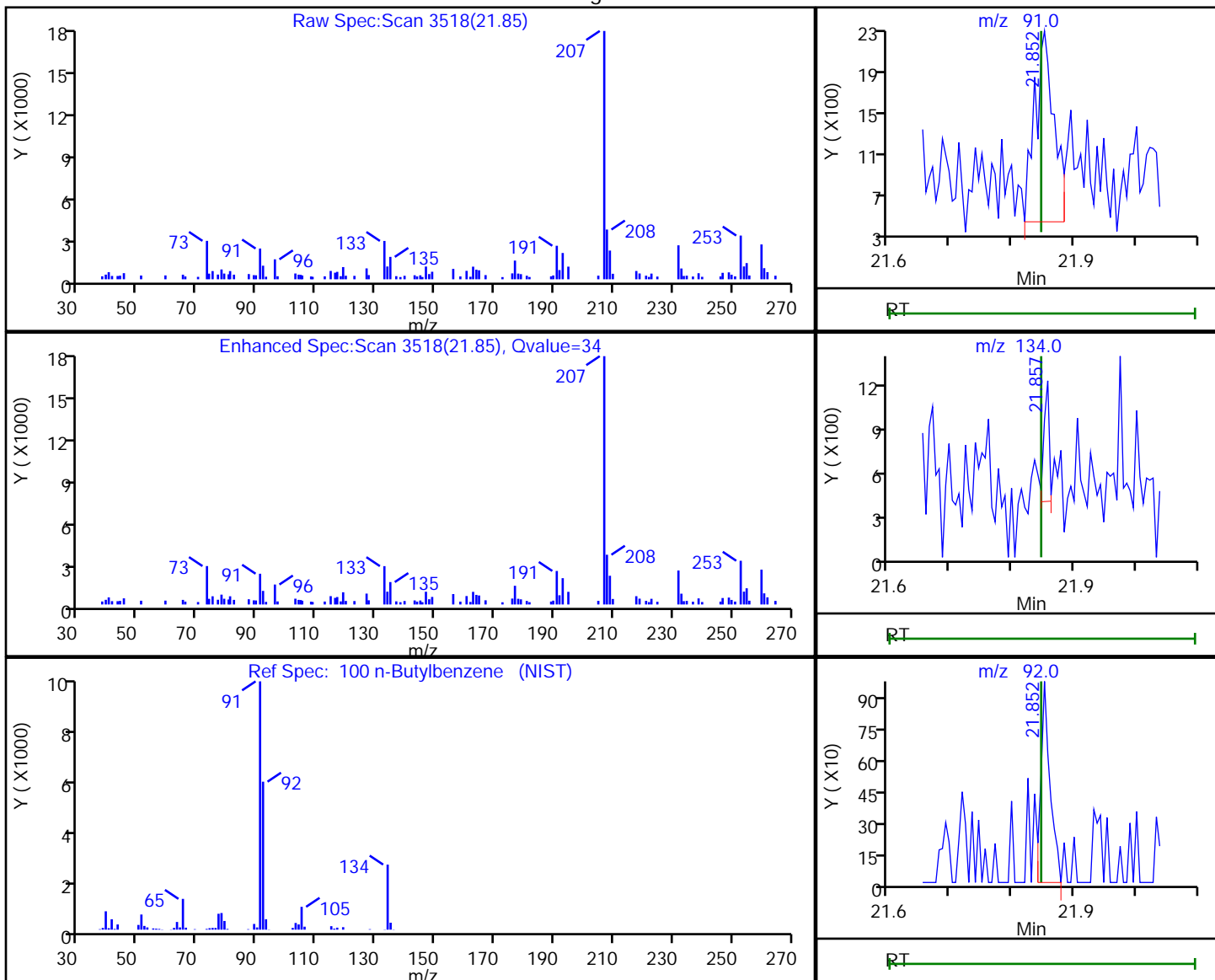
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.85 | 91.00  | 3768     | 0.017425 |
| 21.86 | 134.00 | 469      |          |
| 21.85 | 92.00  | 1005     |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:47

Audit Action: Marked Compound Undetected

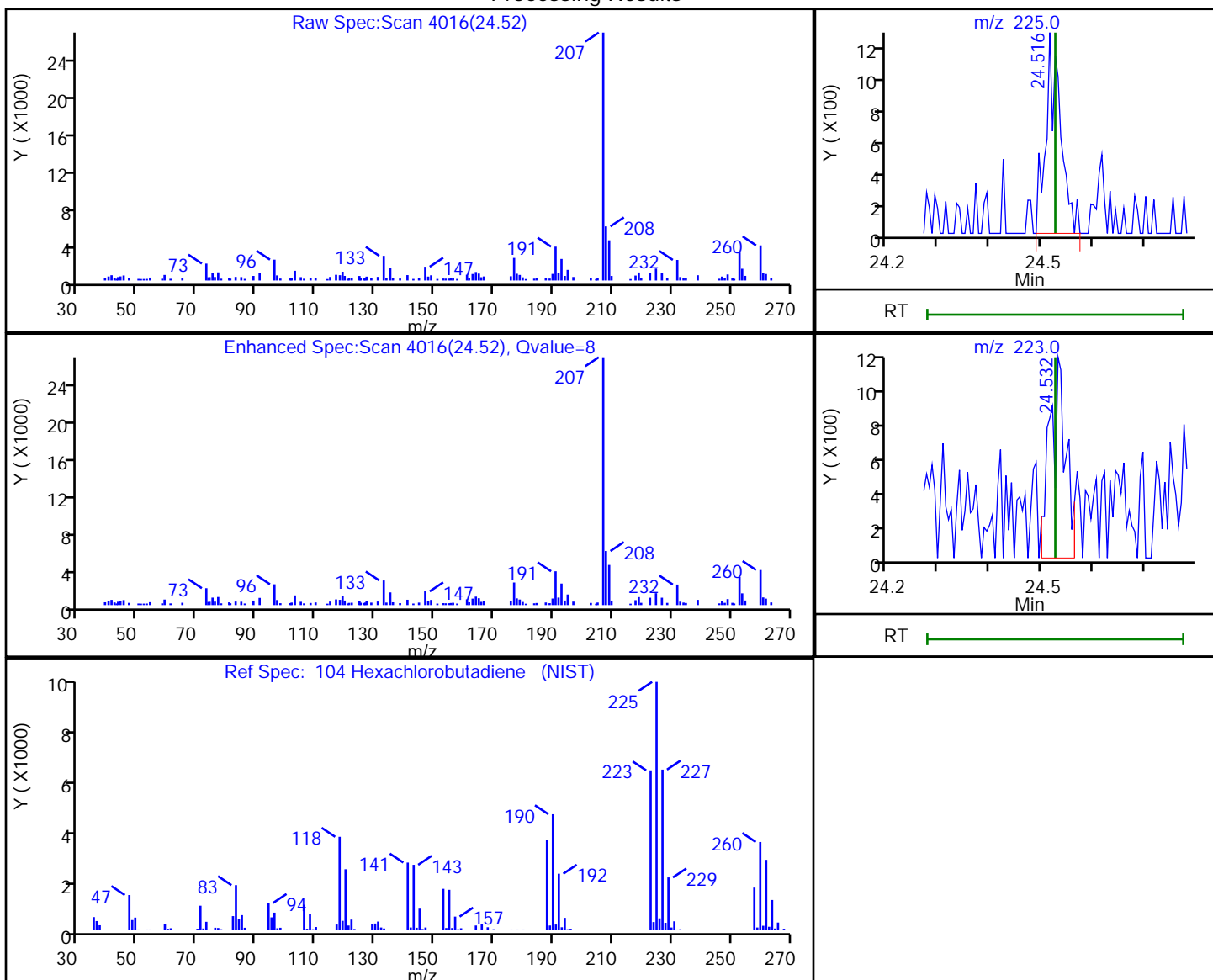
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-005.D  
Injection Date: 06-Dec-2018 17:33:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.52 | 225.00 | 2583     | 0.023562 |
| 24.53 | 223.00 | 2491     |          |

Reviewer: puangmaleek, 07-Dec-2018 15:52:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |  |
|-----------|----------------------------------|------------------|--------|---|-------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.50   | U | 0.50  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.50   | U | 0.50  |  |
| 106-97-8  | n-Butane                         | 58.12            | 0.50   | U | 0.50  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.20   | U | 0.20  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |  |
| 67-64-1   | Acetone                          | 58.08            | 5.0    | U | 5.0   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.20   | U | 0.20  |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.50   | U | 0.50  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.20   | U | 0.20  |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.035  | U | 0.035 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |  |
| 71-43-2   | Benzene                          | 78.11            | 0.20   | U | 0.20  |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.20   | U | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|-----------|----------------------------------|------------------|--------|---|------|--|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    | U | 2.5  |  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.0    | U | 1.0  |  |
| 106-97-8  | n-Butane                         | 58.12            | 1.2    | U | 1.2  |  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |  |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.1    | U | 1.1  |  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |  |
| 67-64-1   | Acetone                          | 58.08            | 12     | U | 12   |  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.70   | U | 0.70 |  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.5    | U | 1.5  |  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |  |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.69   | U | 0.69 |  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.22   | U | 0.22 |  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |  |
| 71-43-2   | Benzene                          | 78.11            | 0.64   | U | 0.64 |  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 0.75   | U | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-137900/6  
 Matrix: Air Lab File ID: 33574-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 15:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 07-Dec-2018 15:52:30 ALS Bottle#: 9 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033574-005  
 Misc. Info.: mb  
 Operator ID: ggg Instrument ID: CHC.i  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0324

First Level Reviewer: phamvu

Date: 10-Dec-2018 17:25:23

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  |           | 2.962         |               |   |          |                 | ND                |       |
| 2 Dichlorodifluoromethane     | 85  |           | 3.031         |               |   |          |                 | ND                |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.079         |               |   |          |                 | ND                |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.287         |               |   |          |                 | ND                |       |
| 5 Chloromethane               | 50  |           | 3.416         |               |   |          |                 | ND                |       |
| 6 Butane                      | 43  |           | 3.618         |               |   |          |                 | ND                |       |
| 7 Vinyl chloride              | 62  |           | 3.656         |               |   |          |                 | ND                |       |
| 8 Butadiene                   | 54  |           | 3.730         |               |   |          |                 | ND                |       |
| 10 Bromomethane               | 94  |           | 4.398         |               |   |          |                 | ND                |       |
| 11 Chloroethane               | 64  |           | 4.632         |               |   |          |                 | ND                |       |
| 12 2-Methylbutane             | 43  |           | 4.718         |               |   |          |                 | ND                |       |
| 13 Vinyl bromide              | 106 |           | 5.022         |               |   |          |                 | ND                |       |
| 14 Trichlorofluoromethane     | 101 |           | 5.134         |               |   |          |                 | ND                |       |
| 16 Pentane                    | 43  |           | 5.283         |               |   |          |                 | ND                |       |
| 17 Ethanol                    | 45  |           | 5.710         |               |   |          |                 | ND                |       |
| 18 Ethyl ether                | 59  |           | 5.796         |               |   |          |                 | ND                |       |
| 19 Acrolein                   | 56  |           | 6.159         |               |   |          |                 | ND                |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 6.223         |               |   |          |                 | ND                |       |
| 21 1,1-Dichloroethene         | 96  |           | 6.244         |               |   |          |                 | ND                |       |
| 22 Acetone                    | 43  |           | 6.468         |               |   |          |                 | ND                |       |
| 23 Carbon disulfide           | 76  |           | 6.628         |               |   |          |                 | ND                |       |
| 24 Isopropyl alcohol          | 45  |           | 6.788         |               |   |          |                 | ND                |       |
| 25 3-Chloro-1-propene         | 41  |           | 7.039         |               |   |          |                 | ND                |       |
| 26 Acetonitrile               | 41  |           | 7.135         |               |   |          |                 | ND                |       |
| 27 Methylene Chloride         | 49  |           | 7.333         |               |   |          |                 | ND                |       |
| 28 2-Methyl-2-propanol        | 59  |           | 7.568         |               |   |          |                 | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 7.749         |               |   |          |                 | ND                |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 7.781         |               |   |          |                 | ND                |       |
| 32 Acrylonitrile              | 53  |           | 7.904         |               |   |          |                 | ND                |       |
| 33 Hexane                     | 57  |           | 8.192         |               |   |          |                 | ND                |       |
| 34 1,1-Dichloroethane         | 63  |           | 8.646         |               |   |          |                 | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|----|----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  |           | 8.736          |               |    |          |                 | ND                |       |
| 37 cis-1,2-Dichloroethene      | 96  |           | 9.766          |               |    |          |                 | ND                |       |
| 38 2-Butanone (MEK)            | 72  |           | 9.804          |               |    |          |                 | ND                |       |
| 39 Ethyl acetate               | 88  |           | 9.863          |               |    |          |                 | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           | 10.200         |               |    |          |                 | ND                |       |
| * 40 Chlorobromomethane        | 128 | 10.226    | 10.225         | 0.001         | 79 | 171771   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  |           | 10.231         |               |    |          |                 | ND                |       |
| 42 Chloroform                  | 83  |           | 10.370         |               |    |          |                 | ND                |       |
| 43 Cyclohexane                 | 84  |           | 10.620         |               |    |          |                 | ND                |       |
| 44 1,1,1-Trichloroethane       | 97  |           | 10.642         |               |    |          |                 | ND                |       |
| 45 Carbon tetrachloride        | 117 |           | 10.898         |               |    |          |                 | ND                |       |
| 46 Isooctane                   | 57  |           | 11.346         |               |    |          |                 | ND                |       |
| 47 Benzene                     | 78  |           | 11.346         |               |    |          |                 | ND                |       |
| 48 1,2-Dichloroethane          | 62  |           | 11.528         |               |    |          |                 | ND                |       |
| 49 n-Heptane                   | 43  |           | 11.752         |               |    |          |                 | ND                |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.206    | 12.205         | 0.001         | 95 | 963517   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  |           | 12.616         |               |    |          |                 | ND                |       |
| 53 Trichloroethene             | 95  |           | 12.675         |               |    |          |                 | ND                |       |
| A 51 GRO                       | 1   | 12.966    | (4.708-21.224) |               | 0  | 4281592  |                 | 0                 |       |
| 54 1,2-Dichloropropane         | 63  |           | 13.219         |               |    |          |                 | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 13.417         |               |    |          |                 | ND                |       |
| 56 1,4-Dioxane                 | 88  |           | 13.449         |               |    |          |                 | ND                |       |
| 57 Dibromomethane              | 174 |           | 13.481         |               |    |          |                 | ND                |       |
| 58 Dichlorobromomethane        | 83  |           | 13.796         |               |    |          |                 | ND                |       |
| A 59 TVOC as Toluene           | 1   | 14.650    | (2.952-26.348) |               | 0  | 4466177  |                 | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 14.746         |               |    |          |                 | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 15.023         |               |    |          |                 | ND                |       |
| 65 Toluene                     | 92  |           | 15.338         |               |    |          |                 | ND                |       |
| 64 n-Octane                    | 43  |           | 15.440         |               |    |          |                 | ND                |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 15.941         |               |    |          |                 | ND                |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 16.315         |               |    |          |                 | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 16.438         |               |    |          |                 | ND                |       |
| 69 2-Hexanone                  | 43  |           | 16.763         |               |    |          |                 | ND                |       |
| 71 Chlorodibromomethane        | 129 |           | 17.078         |               |    |          |                 | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 17.334         |               |    |          |                 | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 18.242    | 18.241         | 0.001         | 89 | 1183871  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 18.300         |               |    |          |                 | ND                |       |
| 76 Ethylbenzene                | 91  |           | 18.460         |               |    |          |                 | ND                | U     |
| 77 n-Nonane                    | 57  |           | 18.626         |               |    |          |                 | ND                |       |
| 78 m-Xylene & p-Xylene         | 106 |           | 18.711         |               |    |          |                 | ND                |       |
| 79 o-Xylene                    | 106 |           | 19.549         |               |    |          |                 | ND                |       |
| 80 Styrene                     | 104 |           | 19.602         |               |    |          |                 | ND                |       |
| 81 Bromoform                   | 173 |           | 20.035         |               |    |          |                 | ND                |       |
| S 73 Xylenes, Total            | 106 |           | 20.100         |               |    |          |                 | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 20.259         |               |    |          |                 | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 20.926         |               |    |          |                 | ND                |       |
| 85 N-Propylbenzene             | 91  |           | 21.006         |               |    |          |                 | ND                |       |
| 86 1,2,3-Trichloropropane      | 75  |           | 21.022         |               |    |          |                 | ND                |       |
| 88 4-Ethyltoluene              | 105 |           | 21.198         |               |    |          |                 | ND                |       |
| 89 2-Chlorotoluene             | 91  |           | 21.203         |               |    |          |                 | ND                |       |
| 87 n-Decane                    | 57  |           | 21.214         |               |    |          |                 | ND                |       |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 21.310         |               |    |          |                 | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene        | 118 |           | 21.684        |               |   |          |                 | ND                |       |
| 92 tert-Butylbenzene           | 119 |           | 21.807        |               |   |          |                 | ND                |       |
| 93 1,2,4-Trimethylbenzene      | 105 |           | 21.903        |               |   |          |                 | ND                |       |
| 94 sec-Butylbenzene            | 105 |           | 22.137        |               |   |          |                 | ND                |       |
| 95 4-Isopropyltoluene          | 119 |           | 22.346        |               |   |          |                 | ND                |       |
| 96 1,3-Dichlorobenzene         | 146 |           | 22.372        |               |   |          |                 | ND                |       |
| 97 1,4-Dichlorobenzene         | 146 | 22.506    | 22.506        | 0.000         | 1 | 763      |                 | 0.0144            |       |
| 98 Benzyl chloride             | 91  | 22.703    | 22.698        | 0.005         | 1 | 665      |                 | 0.009207          |       |
| 100 n-Butylbenzene             | 91  |           | 22.911        |               |   |          |                 | ND                |       |
| 99 Undecane                    | 57  |           | 22.954        |               |   |          |                 | ND                |       |
| 101 1,2-Dichlorobenzene        | 146 |           | 23.029        |               |   |          |                 | ND                |       |
| 102 Dodecane                   | 57  |           | 24.486        |               |   |          |                 | ND                |       |
| 103 1,2,4-Trichlorobenzene     | 180 |           | 25.436        |               |   |          |                 | ND                |       |
| 104 Hexachlorobutadiene        | 225 |           | 25.628        |               |   |          |                 | ND                |       |
| 105 Naphthalene                | 128 |           | 25.884        |               |   |          |                 | ND                |       |
| 106 1,2,3-Trichlorobenzene     | 180 |           | 26.338        |               |   |          |                 | ND                |       |
| 120 Freon 115 TIC              | 1   |           | 0.000         |               |   |          |                 | ND                |       |
| 119 Difluoroethane TIC         | 1   |           | 0.000         |               |   |          |                 | ND                |       |
| 122 Total Alkanes TIC          | 1   |           | 0.000         |               |   |          |                 | ND                |       |
| 121 1,1,1-Trifluoro-2,2-dichlo | 1   |           | 0.000         |               |   |          |                 | ND                |       |
| 118 Chlorotrifluoroethene TIC  | 1   |           | 0.000         |               |   |          |                 | ND                |       |

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D

Injection Date: 07-Dec-2018 15:52:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: mb

Worklist Smp#: 6

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

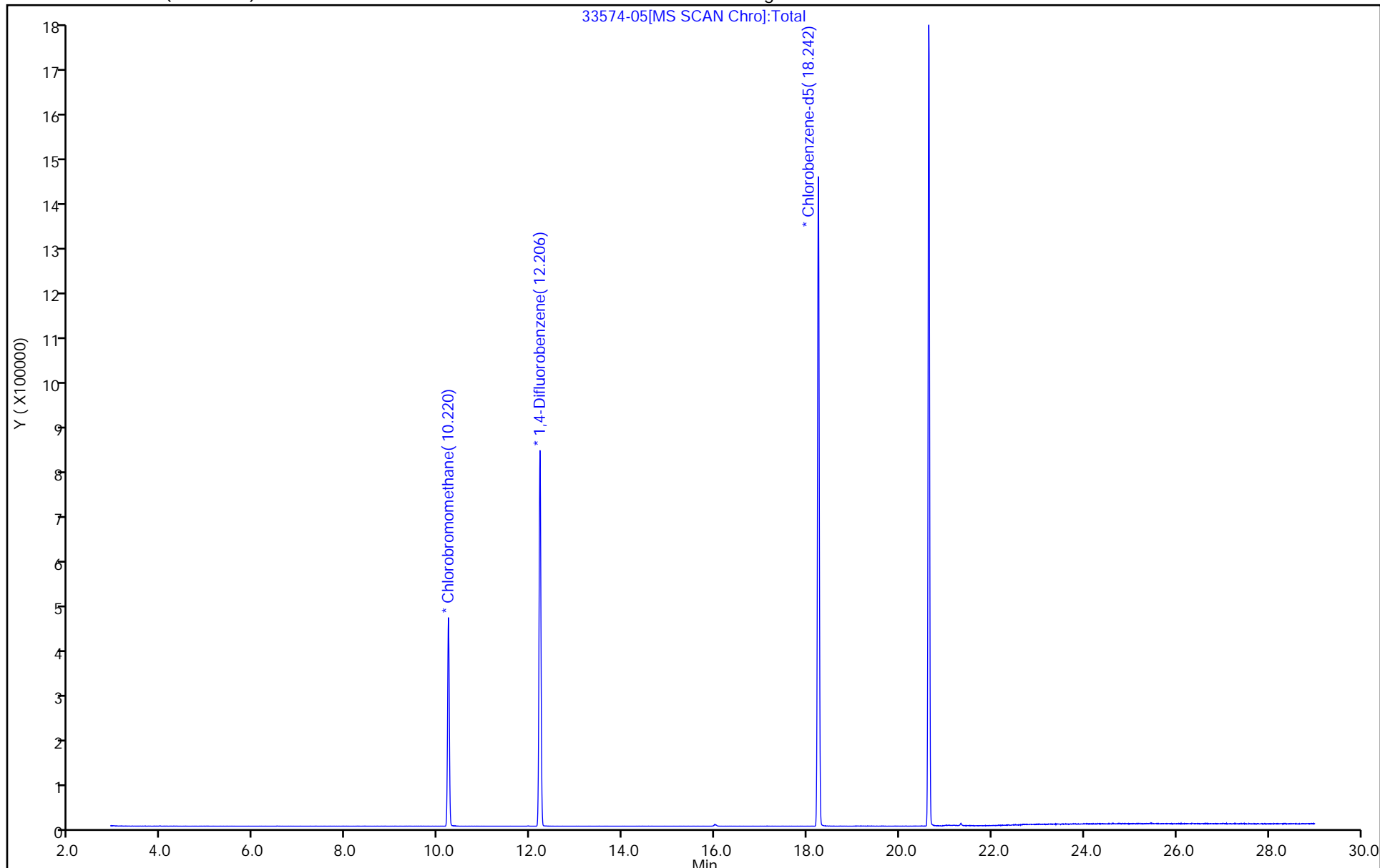
ALS Bottle#: 9

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



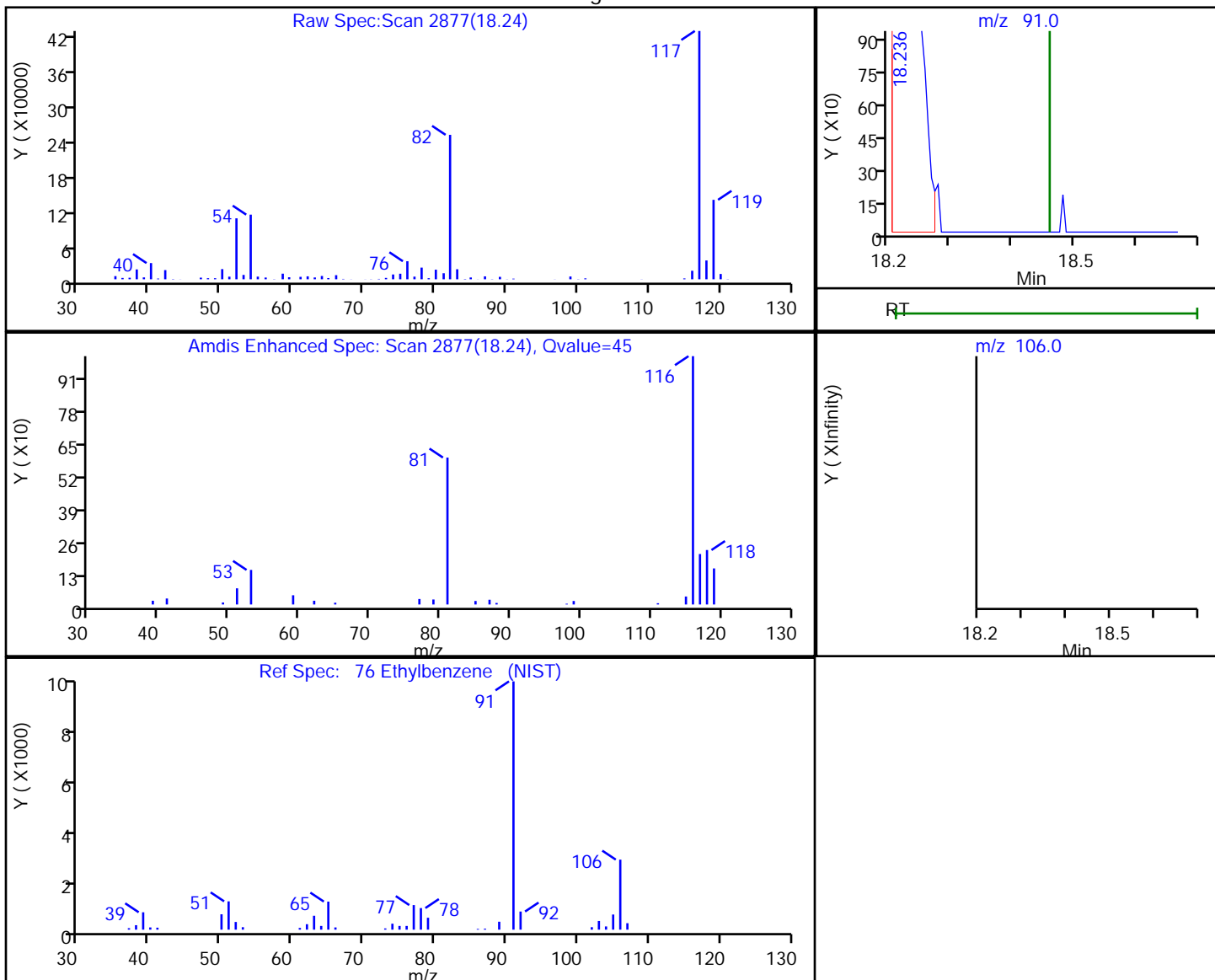


TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-05.D  
Injection Date: 07-Dec-2018 15:52:30 Instrument ID: CHC.i  
Lims ID: mb  
Client ID:  
Operator ID: ggg ALS Bottle#: 9 Worklist Smp#: 6  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_CHC.i Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 18.24 | 91.00  | 2714     | 0.035817 |
| 18.46 | 106.00 | 0        |          |

Reviewer: phamvu, 10-Dec-2018 17:25:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137819/6  
 Matrix: Air Lab File ID: 200-33531-006.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 44 (mL) Date Analyzed: 12/05/2018 18:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 11.4   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 11.0   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 11.1   |   | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 10.5   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 10.3   |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 10.1   |   | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 10.3   |   | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 10.7   |   | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 10.8   |   | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 10.7   |   | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 10.8   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 11.1   |   | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 10.6   |   | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 11.9   |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 10.3   |   | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 10.7   |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 10.9   |   | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 10.9   |   | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 10.2   |   | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 11.5   |   | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 10.8   |   | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 11.0   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 10.7   |   | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10.7   |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 11.8   |   | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 11.2   |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 9.40   |   | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 9.75   |   | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 9.31   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 10.1   |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 9.45   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 10.6   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 10.3   |   | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137819/6  
 Matrix: Air Lab File ID: 200-33531-006.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 44 (mL) Date Analyzed: 12/05/2018 18:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 9.99   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 9.29   |   | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 9.83   |   | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 11.2   |   | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 9.74   |   | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 10.5   |   | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 11.1   |   | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 8.95   |   | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 12.3   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 10.6   |   | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 11.5   |   | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 11.5   |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 9.34   |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 12.2   |   | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 12.4   |   | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 12.1   |   | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 11.4   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 22.7   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 11.6   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 11.5   |   | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 12.8   |   | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 11.5   |   | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 10.2   |   | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 10.8   |   | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 11.0   |   | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 11.0   |   | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 11.0   |   | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 11.1   |   | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 10.9   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 11.1   |   | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 11.1   |   | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 11.0   |   | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 11.3   |   | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137819/6  
 Matrix: Air Lab File ID: 200-33531-006.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 44 (mL) Date Analyzed: 12/05/2018 18:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 10.1   |   | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 10.7   |   | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 10.9   |   | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 8.14   |   | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 8.93   |   | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 7.46   |   | 0.50 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-006.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 05-Dec-2018 18:19:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033531-006  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Dec-2018 13:09:01 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0323

First Level Reviewer: bunmaa

Date: 06-Dec-2018 13:09:57

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 3.096     | 3.096         | 0.000         | 97  | 548810   | 10.0            | 11.4              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.144     | 3.155         | -0.011        | 99  | 2975641  | 10.0            | 11.4              |       |
| 3 Chlorodifluoromethane       | 51  | 3.181     | 3.181         | 0.000         | 96  | 1223739  | 10.0            | 11.0              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.342     | 3.353         | -0.011        | 90  | 2168354  | 10.0            | 11.1              |       |
| 5 Chloromethane               | 50  | 3.454     | 3.465         | -0.011        | 99  | 530249   | 10.0            | 10.5              |       |
| 6 Butane                      | 43  | 3.604     | 3.604         | 0.000         | 96  | 704390   | 10.0            | 10.3              |       |
| 7 Vinyl chloride              | 62  | 3.636     | 3.647         | -0.011        | 98  | 613421   | 10.0            | 10.1              |       |
| 8 Butadiene                   | 54  | 3.695     | 3.711         | -0.016        | 94  | 392510   | 10.0            | 10.3              |       |
| 10 Bromomethane               | 94  | 4.209     | 4.208         | 0.001         | 98  | 754179   | 10.0            | 10.7              |       |
| 11 Chloroethane               | 64  | 4.380     | 4.380         | 0.000         | 99  | 252302   | 10.0            | 10.8              |       |
| 12 2-Methylbutane             | 43  | 4.439     | 4.441         | -0.005        | 88  | 479405   | 10.0            | 10.7              |       |
| 13 Vinyl bromide              | 106 | 4.685     | 4.695         | -0.010        | 99  | 743200   | 10.0            | 10.7              |       |
| 14 Trichlorofluoromethane     | 101 | 4.760     | 4.760         | 0.000         | 98  | 2222335  | 10.0            | 10.8              |       |
| 16 Pentane                    | 43  | 4.867     | 4.863         | 0.001         | 98  | 713522   | 10.0            | 10.5              |       |
| 17 Ethanol                    | 45  | 5.204     | 5.241         | -0.042        | 96  | 273438   | 15.0            | 19.4              |       |
| 18 Ethyl ether                | 59  | 5.278     | 5.327         | -0.049        | 96  | 287496   | 10.0            | 12.0              |       |
| 19 Acrolein                   | 56  | 5.594     | 5.591         | 0.000         | 96  | 111341   | 10.0            | 12.2              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 5.605     | 5.605         | 0.000         | 97  | 1608742  | 10.0            | 11.1              |       |
| 21 1,1-Dichloroethene         | 96  | 5.664     | 5.658         | 0.006         | 96  | 679041   | 10.0            | 10.6              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 22 Acetone                    | 43  | 5.856     | 5.856         | 0.000         | 99  | 647908   | 10.0            | 11.9              |       |
| 23 Carbon disulfide           | 76  | 6.017     | 6.011         | 0.000         | 99  | 1759133  | 10.0            | 10.7              |       |
| 24 Isopropyl alcohol          | 45  | 6.097     | 6.097         | 0.000         | 100 | 619108   | 10.0            | 10.3              |       |
| 25 3-Chloro-1-propene         | 41  | 6.306     | 6.305         | 0.001         | 95  | 514971   | 10.0            | 10.9              |       |
| 26 Acetonitrile               | 41  | 6.418     | 6.418         | 0.000         | 97  | 192726   | 10.0            | 9.70              |       |
| 27 Methylene Chloride         | 49  | 6.552     | 6.557         | -0.005        | 88  | 625400   | 10.0            | 10.9              |       |
| 28 2-Methyl-2-propanol        | 59  | 6.771     | 6.767         | 0.000         | 93  | 933848   | 10.0            | 10.2              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 6.948     | 6.948         | 0.000         | 95  | 834062   | 10.0            | 10.8              |       |
| 29 Methyl tert-butyl ether    | 73  | 6.937     | 6.980         | -0.043        | 95  | 1428164  | 10.0            | 11.5              |       |
| 32 Acrylonitrile              | 53  | 7.071     | 7.070         | 0.001         | 91  | 248026   | 10.0            | 11.4              |       |
| 33 Hexane                     | 57  | 7.290     | 7.285         | 0.011         | 90  | 679799   | 10.0            | 11.0              |       |
| 34 1,1-Dichloroethane         | 63  | 7.723     | 7.729         | -0.006        | 99  | 1062520  | 10.0            | 10.7              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.787     | 7.783          | 0.000         | 100 | 942596    | 10.0            | 12.5              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.729     | 8.724          | 0.005         | 90  | 711000    | 10.0            | 11.8              |       |
| 38 2-Butanone (MEK)            | 72  | 8.788     | 8.793          | -0.005        | 100 | 208582    | 10.0            | 10.7              |       |
| 39 Ethyl acetate               | 88  | 8.825     | 8.825          | -0.005        | 99  | 33405     | 10.0            | 12.0              |       |
| * 40 Chlorobromomethane        | 128 | 9.157     | 9.152          | 0.005         | 74  | 697703    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.205     | 9.210          | -0.005        | 84  | 375121    | 10.0            | 9.40              |       |
| 42 Chloroform                  | 83  | 9.269     | 9.264          | 0.000         | 95  | 1629107   | 10.0            | 11.2              |       |
| 43 Cyclohexane                 | 84  | 9.526     | 9.527          | -0.005        | 94  | 747520    | 10.0            | 9.31              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.542     | 9.542          | 0.000         | 93  | 1895725   | 10.0            | 9.75              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 22.6              |       |
| 45 Carbon tetrachloride        | 117 | 9.783     | 9.778          | 0.000         | 98  | 2098349   | 10.0            | 10.1              |       |
| 46 Isooctane                   | 57  | 10.195    | 10.190         | 0.000         | 97  | 2509399   | 10.0            | 9.45              |       |
| 47 Benzene                     | 78  | 10.222    | 10.216         | 0.006         | 95  | 1967113   | 10.0            | 10.6              |       |
| 48 1,2-Dichloroethane          | 62  | 10.382    | 10.377         | 0.000         | 99  | 1106067   | 10.0            | 10.3              |       |
| 49 n-Heptane                   | 43  | 10.569    | 10.575         | -0.006        | 89  | 957808    | 10.0            | 10.0              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.024    | 11.019         | 0.005         | 93  | 3498401   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.452    | 11.457         | -0.011        | 92  | 227927    | 10.0            | 7.23              |       |
| 53 Trichloroethene             | 95  | 11.484    | 11.484         | 0.000         | 99  | 1132941   | 10.0            | 9.29              |       |
| 54 1,2-Dichloropropane         | 63  | 12.019    | 12.024         | -0.011        | 86  | 735095    | 10.0            | 11.2              |       |
| 55 Methyl methacrylate         | 69  | 12.206    | 12.200         | 0.000         | 95  | 533406    | 10.0            | 9.83              |       |
| A 51 GRO                       | 1   | 12.262    | (4.423-20.091) |               | 0   | 293384167 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.265    | 12.281         | 0.000         | 94  | 1174467   | 10.0            | 10.5              |       |
| 56 1,4-Dioxane                 | 88  | 12.281    | 12.280         | -0.005        | 89  | 333423    | 10.0            | 9.74              |       |
| 58 Dichlorobromomethane        | 83  | 12.554    | 12.543         | 0.005         | 98  | 1984412   | 10.0            | 10.5              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.474    | 13.485         | -0.011        | 93  | 1302309   | 10.0            | 11.1              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.790    | 13.790         | 0.000         | 97  | 1084694   | 10.0            | 8.95              |       |
| 65 Toluene                     | 92  | 14.063    | 14.073         | -0.005        | 94  | 1551456   | 10.0            | 12.3              |       |
| 64 n-Octane                    | 43  | 14.154    | 14.143         | 0.011         | 88  | 1327093   | 10.0            | 9.41              |       |
| A 59 TVOC as Toluene           | 92  | 14.159    | (3.086-25.232) |               | 0   | 446021885 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.657    | 14.651         | 0.005         | 97  | 1222678   | 10.0            | 10.6              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.020    | 15.025         | -0.005        | 97  | 785820    | 10.0            | 11.5              |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.127         | -0.005        | 96  | 1748719   | 10.0            | 11.5              |       |
| 69 2-Hexanone                  | 43  | 15.507    | 15.507         | 0.000         | 94  | 1039115   | 10.0            | 9.34              |       |
| 71 Chlorodibromomethane        | 129 | 15.780    | 15.780         | 0.000         | 97  | 2239908   | 10.0            | 12.2              |       |
| 72 Ethylene Dibromide          | 107 | 16.047    | 16.042         | 0.000         | 99  | 1710523   | 10.0            | 12.4              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957         | 0.000         | 84  | 3124165   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.016    | 17.016         | 0.000         | 97  | 2364075   | 10.0            | 12.1              |       |
| 76 Ethylbenzene                | 91  | 17.182    | 17.187         | 0.000         | 98  | 3235119   | 10.0            | 11.4              |       |
| 77 n-Nonane                    | 57  | 17.353    | 17.358         | -0.005        | 84  | 1362732   | 10.0            | 10.9              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.433         | 0.005         | 0   | 2620669   | 20.0            | 22.7              |       |
| 79 o-Xylene                    | 106 | 18.289    | 18.284         | -0.005        | 99  | 1269539   | 10.0            | 11.6              |       |
| 80 Styrene                     | 104 | 18.342    | 18.337         | 0.005         | 98  | 1934917   | 10.0            | 11.5              |       |
| 81 Bromoform                   | 173 | 18.781    | 18.781         | 0.000         | 97  | 2128099   | 10.0            | 12.8              |       |
| 82 Isopropylbenzene            | 105 | 19.043    | 19.049         | -0.006        | 96  | 3704335   | 10.0            | 11.5              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 34.3              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.765    | 19.765         | 0.000         | 99  | 1790396   | 10.0            | 10.2              |       |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.846         | 0.000         | 99  | 4130061   | 10.0            | 10.8              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.862    | 19.862         | 0.000         | 96  | 1407233   | 10.0            | 9.47              |       |
| 89 2-Chlorotoluene             | 91  | 20.049    | 20.054         | 0.005         | 96  | 3174681   | 10.0            | 11.0              |       |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.070         | 0.000         | 98  | 3566801   | 10.0            | 11.0              |       |
| 87 n-Decane                    | 57  | 20.076    | 20.081         | -0.005        | 94  | 1496966   | 10.0            | 9.71              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.177         | -0.005        | 93  | 3056232   | 10.0            | 11.0              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.568    | 20.573        | 0.000         | 91 | 1572635  | 10.0            | 12.0              |       |
| 92 tert-Butylbenzene       | 119 | 20.696    | 20.691        | 0.005         | 92 | 2898243  | 10.0            | 11.1              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.798    | 20.793        | 0.000         | 97 | 2994208  | 10.0            | 10.9              |       |
| 94 sec-Butylbenzene        | 105 | 21.044    | 21.039        | 0.000         | 99 | 4280595  | 10.0            | 11.1              |       |
| 95 4-Isopropyltoluene      | 119 | 21.263    | 21.269        | -0.006        | 97 | 3687059  | 10.0            | 11.1              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.274    | 21.279        | 0.000         | 96 | 2453632  | 10.0            | 11.0              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.413    | 21.418        | -0.005        | 96 | 2398217  | 10.0            | 11.3              |       |
| 98 Benzyl chloride         | 91  | 21.622    | 21.616        | 0.006         | 99 | 2666078  | 10.0            | 10.1              |       |
| 100 n-Butylbenzene         | 91  | 21.852    | 21.852        | 0.000         | 98 | 3242232  | 10.0            | 10.7              |       |
| 99 Undecane                | 57  | 21.905    | 21.905        | 0.000         | 93 | 1505286  | 10.0            | 8.87              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.948    | 21.953        | -0.005        | 98 | 2230226  | 10.0            | 10.9              |       |
| 102 Dodecane               | 57  | 23.435    | 23.435        | 0.000         | 97 | 1039176  | 10.0            | 7.64              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334    | 24.334        | 0.000         | 94 | 1251873  | 10.0            | 8.14              |       |
| 104 Hexachlorobutadiene    | 225 | 24.527    | 24.526        | 0.001         | 98 | 1366608  | 10.0            | 8.93              |       |
| 105 Naphthalene            | 128 | 24.773    | 24.778        | -0.005        | 99 | 2225092  | 10.0            | 7.46              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.217    | 25.222        | -0.005        | 95 | 958028   | 10.0            | 7.21              |       |

**Reagents:**

ATTO15LCSW\_00791

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181205-33531.b\200-33531-006.D

Injection Date: 05-Dec-2018 18:19:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: lcs

Worklist Smp#: 6

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

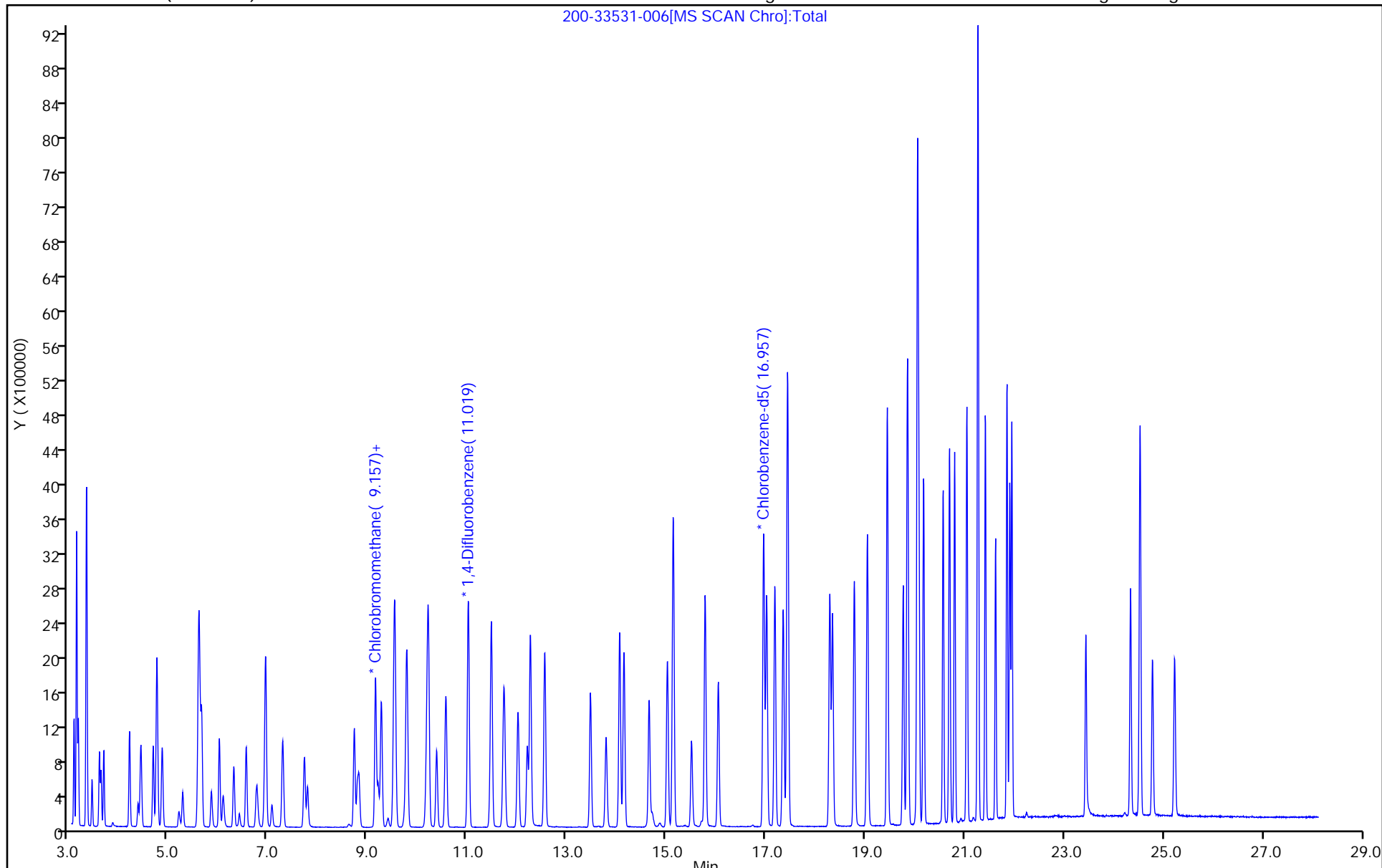
ALS Bottle#: 6

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137867/4  
 Matrix: Air Lab File ID: 200-33558-004.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 16:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 11.5   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 10.4   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 11.1   |   | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 10.1   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 9.76   |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 9.84   |   | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 9.84   |   | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 10.3   |   | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 9.50   |   | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 10.2   |   | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 10.3   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 10.2   |   | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 9.99   |   | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 9.93   |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 9.76   |   | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 10.4   |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 9.68   |   | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 9.56   |   | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 10.0   |   | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 9.79   |   | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 9.65   |   | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 9.81   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 9.39   |   | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 8.94   |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 10.5   |   | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 9.97   |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 8.68   |   | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 9.93   |   | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 9.61   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 10.2   |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 9.36   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 10.5   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 9.57   |   | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137867/4  
 Matrix: Air Lab File ID: 200-33558-004.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 16:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 9.34   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 9.61   |   | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 8.80   |   | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 9.02   |   | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 10.0   |   | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 10.5   |   | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 9.71   |   | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 8.55   |   | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 9.98   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 9.36   |   | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 9.70   |   | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 11.2   |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 8.43   |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 11.3   |   | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 10.1   |   | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 10.1   |   | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 9.57   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 18.9   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 9.67   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 9.81   |   | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 11.1   |   | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 9.83   |   | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 9.09   |   | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 9.42   |   | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 9.62   |   | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 9.66   |   | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 9.59   |   | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 9.81   |   | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 9.69   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 9.86   |   | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 10.0   |   | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 10.0   |   | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 10.2   |   | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137867/4  
 Matrix: Air Lab File ID: 200-33558-004.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 16:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 9.08   |   | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 9.67   |   | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 10.0   |   | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 7.90   |   | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 8.55   |   | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 7.30   |   | 0.50 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-004.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 06-Dec-2018 16:43:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033558-004  
 Operator ID: ert Instrument ID: CHG.i  
 Method: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 07-Dec-2018 15:48:38 Calib Date: 28-Nov-2018 02:15:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromdocs2018\q3\Burlington\ChromData\CHG.i\20181127-33385.b\200-33385-011.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0310

First Level Reviewer: puangmaleek

Date: 07-Dec-2018 15:49:43

| Compound                               | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--|-----|-----------|---------------|----------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                              | 41  | 3.090     | 3.096         | -0.006         | 96  | 426259   | 10.0            | 10.7              |       |
| 2 Dichlorodifluoromethane              | 85  | 3.144     | 3.149         | -0.005         | 99  | 2483319  | 10.0            | 11.5              |       |
| 3 Chlorodifluoromethane                | 51  | 3.176     | 3.181         | -0.005         | 96  | 953331   | 10.0            | 10.4              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra           | 85  | 3.342     | 3.347         | -0.005         | 98  | 1810156  | 10.0            | 11.1              |       |
| 5 Chloromethane                        | 50  | 3.454     | 3.459         | -0.005         | 98  | 423591   | 10.0            | 10.1              |       |
| 6 Butane                               | 43  | 3.599     | 3.604         | -0.005         | 96  | 552093   | 10.0            | 9.76              |       |
| 7 Vinyl chloride                       | 62  | 3.631     | 3.641         | -0.010         | 98  | 497649   | 10.0            | 9.84              |       |
| 8 Butadiene                            | 54  | 3.689     | 3.695         | -0.006         | 95  | 309629   | 10.0            | 9.84              |       |
| 10 Bromomethane                        | 94  | 4.208     | 4.208         | 0.000          | 99  | 601265   | 10.0            | 10.3              |       |
| 11 Chloroethane                        | 64  | 4.374     | 4.380         | -0.006         | 99  | 185012   | 10.0            | 9.50              |       |
| 12 2-Methylbutane                      | 43  | 4.433     | 4.438         | -0.005         | 88  | 369413   | 10.0            | 9.89              |       |
| 13 Vinyl bromide                       | 106 | 4.679     | 4.685         | -0.006         | 99  | 591774   | 10.0            | 10.2              |       |
| 14 Trichlorofluoromethane              | 101 | 4.754     | 4.759         | -0.005         | 98  | 1761716  | 10.0            | 10.3              |       |
| 16 Pentane                             | 43  | 4.861     | 4.866         | -0.005         | 98  | 533653   | 10.0            | 9.44              |       |
| 17 Ethanol                             | 45  | 5.198     | 5.203         | -0.005         | 96  | 198973   | 15.0            | 17.0              |       |
| 18 Ethyl ether                         | 59  | 5.278     | 5.284         | -0.006         | 97  | 196720   | 10.0            | 9.92              |       |
| 19 Acrolein                            | 56  | 5.594     | 5.589         | 0.005          | 33  | 67559    | 10.0            | 8.90              |       |
| 20 1,1,2-Trichloro-1,2,2-trif<br>9 BFB | 101 | 5.605     | 5.605         | 0.000          | 97  | 1226925  | 10.0            | 10.2              |       |
| 21 1,1-Dichloroethene                  | 96  | 5.658     | 5.658         | 0.000          | 97  | 528685   | 10.0            | 10.0              |       |
| 22 Acetone                             | 43  | 5.851     | 5.856         | -0.005         | 99  | 447366   | 10.0            | 9.93              |       |
| 23 Carbon disulfide                    | 76  | 6.011     | 6.017         | -0.006         | 99  | 1420845  | 10.0            | 10.4              |       |
| 24 Isopropyl alcohol                   | 45  | 6.086     | 6.092         | -0.006         | 100 | 486153   | 10.0            | 9.76              |       |
| 25 3-Chloro-1-propene                  | 41  | 6.300     | 6.306         | -0.006         | 96  | 381074   | 10.0            | 9.68              |       |
| 26 Acetonitrile                        | 41  | 6.412     | 6.418         | -0.006         | 96  | 119072   | 10.0            | 7.22              |       |
| 27 Methylene Chloride                  | 49  | 6.552     | 6.557         | -0.005         | 88  | 456501   | 10.0            | 9.56              |       |
| 28 2-Methyl-2-propanol                 | 59  | 6.766     | 6.766         | 0.000          | 93  | 763340   | 10.0            | 10.0              |       |
| 29 Methyl tert-butyl ether             | 73  | 6.937     | 6.937         | 0.000          | 95  | 1007600  | 10.0            | 9.79              |       |
| 31 trans-1,2-Dichloroethene            | 61  | 6.942     | 6.947         | -0.005         | 94  | 618987   | 10.0            | 9.65              |       |
| 32 Acrylonitrile                       | 53  | 7.065     | 7.071         | -0.005         | 92  | 153049   | 10.0            | 8.51              |       |
| 33 Hexane                              | 57  | 7.284     | 7.290         | -0.006         | 90  | 501604   | 10.0            | 9.81              |       |
| 34 1,1-Dichloroethane                  | 63  | 7.723     | 7.723         | 0.000          | 99  | 777316   | 10.0            | 9.39              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 35 Vinyl acetate               | 43  | 7.782     | 7.787          | -0.005        | 100 | 579724    | 10.0            | 9.26              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 8.724     | 8.729          | -0.005        | 88  | 528075    | 10.0            | 10.5              |       |
| 38 2-Butanone (MEK)            | 72  | 8.788     | 8.788          | 0.000         | 100 | 144516    | 10.0            | 8.94              |       |
| 39 Ethyl acetate               | 88  | 8.820     | 8.820          | 0.000         | 99  | 22655     | 10.0            | 9.83              |       |
| * 40 Chlorobromomethane        | 128 | 9.152     | 9.157          | -0.005        | 72  | 578882    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 9.205     | 9.205          | 0.000         | 87  | 254099    | 10.0            | 8.68              |       |
| 42 Chloroform                  | 83  | 9.264     | 9.269          | -0.005        | 96  | 1205803   | 10.0            | 9.97              |       |
| 43 Cyclohexane                 | 84  | 9.526     | 9.531          | -0.005        | 95  | 565650    | 10.0            | 9.61              |       |
| 44 1,1,1-Trichloroethane       | 97  | 9.537     | 9.542          | -0.005        | 93  | 1415366   | 10.0            | 9.93              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 20.2              |       |
| 45 Carbon tetrachloride        | 117 | 9.777     | 9.783          | -0.006        | 98  | 1558841   | 10.0            | 10.2              |       |
| 46 Isooctane                   | 57  | 10.195    | 10.200         | -0.005        | 97  | 1823590   | 10.0            | 9.36              |       |
| 47 Benzene                     | 78  | 10.211    | 10.216         | -0.005        | 96  | 1441045   | 10.0            | 10.5              |       |
| 48 1,2-Dichloroethane          | 62  | 10.382    | 10.382         | 0.000         | 99  | 755779    | 10.0            | 9.57              |       |
| 49 n-Heptane                   | 43  | 10.564    | 10.569         | -0.005        | 92  | 656502    | 10.0            | 9.34              |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.013    | 11.019         | -0.006        | 93  | 2565414   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 11.452    | 11.463         | -0.011        | 89  | 186314    | 10.0            | 8.06              |       |
| 53 Trichloroethene             | 95  | 11.479    | 11.484         | -0.005        | 99  | 858989    | 10.0            | 9.61              |       |
| 54 1,2-Dichloropropane         | 63  | 12.019    | 12.019         | 0.000         | 85  | 434616    | 10.0            | 9.02              |       |
| 55 Methyl methacrylate         | 69  | 12.201    | 12.201         | 0.000         | 95  | 350215    | 10.0            | 8.80              |       |
| A 51 GRO                       | 1   | 12.257    | (4.428-20.086) |               | 0   | 206231686 | 10.0            | 0                 |       |
| 57 Dibromomethane              | 174 | 12.265    | 12.265         | 0.000         | 94  | 883136    | 10.0            | 10.7              |       |
| 56 1,4-Dioxane                 | 88  | 12.276    | 12.281         | -0.005        | 91  | 251577    | 10.0            | 10.0              |       |
| 58 Dichlorobromomethane        | 83  | 12.549    | 12.554         | -0.005        | 98  | 1462868   | 10.0            | 10.5              |       |
| 60 cis-1,3-Dichloropropene     | 75  | 13.469    | 13.474         | -0.005        | 92  | 834259    | 10.0            | 9.71              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 13.784    | 13.790         | -0.006        | 97  | 759395    | 10.0            | 8.55              |       |
| 65 Toluene                     | 92  | 14.063    | 14.063         | 0.000         | 93  | 985865    | 10.0            | 9.98              |       |
| 64 n-Octane                    | 43  | 14.143    | 14.148         | -0.005        | 88  | 970613    | 10.0            | 9.39              |       |
| A 59 TVOC as Toluene           | 92  | 14.153    | (3.080-25.227) |               | 0   | 317798287 | 10.0            | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  | 14.651    | 14.656         | -0.005        | 97  | 791526    | 10.0            | 9.36              |       |
| 67 1,1,2-Trichloroethane       | 83  | 15.020    | 15.026         | -0.006        | 97  | 518446    | 10.0            | 9.70              |       |
| 68 Tetrachloroethene           | 166 | 15.138    | 15.138         | 0.000         | 96  | 1326729   | 10.0            | 11.2              |       |
| 69 2-Hexanone                  | 43  | 15.507    | 15.507         | 0.000         | 94  | 732222    | 10.0            | 8.43              |       |
| 71 Chlorodibromomethane        | 129 | 15.780    | 15.780         | 0.000         | 97  | 1618989   | 10.0            | 11.3              |       |
| 72 Ethylene Dibromide          | 107 | 16.042    | 16.042         | 0.000         | 98  | 1094783   | 10.0            | 10.1              |       |
| * 74 Chlorobenzene-d5          | 117 | 16.957    | 16.957         | 0.000         | 84  | 2438923   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 17.016    | 17.016         | 0.000         | 97  | 1541658   | 10.0            | 10.1              |       |
| 76 Ethylbenzene                | 91  | 17.181    | 17.181         | 0.000         | 98  | 2128568   | 10.0            | 9.57              |       |
| 77 n-Nonane                    | 57  | 17.347    | 17.353         | -0.006        | 84  | 900116    | 10.0            | 9.25              |       |
| 78 m-Xylene & p-Xylene         | 106 | 17.438    | 17.438         | 0.000         | 0   | 1708163   | 20.0            | 18.9              |       |
| 79 o-Xylene                    | 106 | 18.283    | 18.283         | 0.000         | 99  | 829162    | 10.0            | 9.67              |       |
| 80 Styrene                     | 104 | 18.342    | 18.342         | 0.000         | 97  | 1286610   | 10.0            | 9.81              |       |
| 81 Bromoform                   | 173 | 18.781    | 18.781         | 0.000         | 97  | 1438743   | 10.0            | 11.1              |       |
| 82 Isopropylbenzene            | 105 | 19.043    | 19.043         | 0.000         | 96  | 2463621   | 10.0            | 9.83              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 28.6              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 19.760    | 19.765         | -0.005        | 99  | 1242949   | 10.0            | 9.09              |       |
| 85 N-Propylbenzene             | 91  | 19.846    | 19.840         | 0.006         | 99  | 2812141   | 10.0            | 9.42              |       |
| 86 1,2,3-Trichloropropane      | 75  | 19.856    | 19.856         | 0.000         | 95  | 952853    | 10.0            | 8.21              |       |
| 89 2-Chlorotoluene             | 91  | 20.044    | 20.049         | -0.005        | 97  | 2160538   | 10.0            | 9.59              |       |
| 88 4-Ethyltoluene              | 105 | 20.054    | 20.054         | 0.000         | 97  | 2444549   | 10.0            | 9.62              |       |
| 87 n-Decane                    | 57  | 20.076    | 20.076         | 0.000         | 94  | 1046902   | 10.0            | 8.70              |       |
| 90 1,3,5-Trimethylbenzene      | 105 | 20.172    | 20.172         | 0.000         | 93  | 2100719   | 10.0            | 9.66              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 91 Alpha Methyl Styrene    | 118 | 20.562    | 20.562        | 0.000         | 92 | 1101956  | 10.0            | 10.8              |       |
| 92 tert-Butylbenzene       | 119 | 20.691    | 20.691        | 0.000         | 92 | 1993660  | 10.0            | 9.81              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 20.798    | 20.798        | 0.000         | 97 | 2077439  | 10.0            | 9.69              |       |
| 94 sec-Butylbenzene        | 105 | 21.044    | 21.044        | 0.000         | 98 | 2971089  | 10.0            | 9.86              |       |
| 95 4-Isopropyltoluene      | 119 | 21.263    | 21.263        | 0.000         | 97 | 2589485  | 10.0            | 10.0              |       |
| 96 1,3-Dichlorobenzene     | 146 | 21.269    | 21.269        | 0.000         | 96 | 1738234  | 10.0            | 10.0              |       |
| 97 1,4-Dichlorobenzene     | 146 | 21.413    | 21.413        | 0.000         | 96 | 1701958  | 10.0            | 10.2              |       |
| 98 Benzyl chloride         | 91  | 21.622    | 21.616        | 0.006         | 99 | 1861842  | 10.0            | 9.08              |       |
| 100 n-Butylbenzene         | 91  | 21.846    | 21.846        | 0.000         | 98 | 2278384  | 10.0            | 9.67              |       |
| 99 Undecane                | 57  | 21.905    | 21.905        | 0.000         | 93 | 1074695  | 10.0            | 8.11              |       |
| 101 1,2-Dichlorobenzene    | 146 | 21.948    | 21.948        | 0.000         | 98 | 1600628  | 10.0            | 10.0              |       |
| 102 Dodecane               | 57  | 23.435    | 23.435        | 0.000         | 98 | 781890   | 10.0            | 7.37              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 24.334    | 24.334        | 0.000         | 94 | 947920   | 10.0            | 7.90              |       |
| 104 Hexachlorobutadiene    | 225 | 24.527    | 24.527        | 0.000         | 98 | 1021220  | 10.0            | 8.55              |       |
| 105 Naphthalene            | 128 | 24.773    | 24.773        | 0.000         | 99 | 1699400  | 10.0            | 7.30              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 25.222    | 25.222        | 0.000         | 95 | 763361   | 10.0            | 7.36              |       |

**Reagents:**

ATTO15LCSW\_00791

Amount Added: 200.00

Units: mL

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHG.i\20181206-33558.b\200-33558-004.D

Injection Date: 06-Dec-2018 16:43:30

Instrument ID: CHG.i

Operator ID: ert

Lims ID: lcs

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

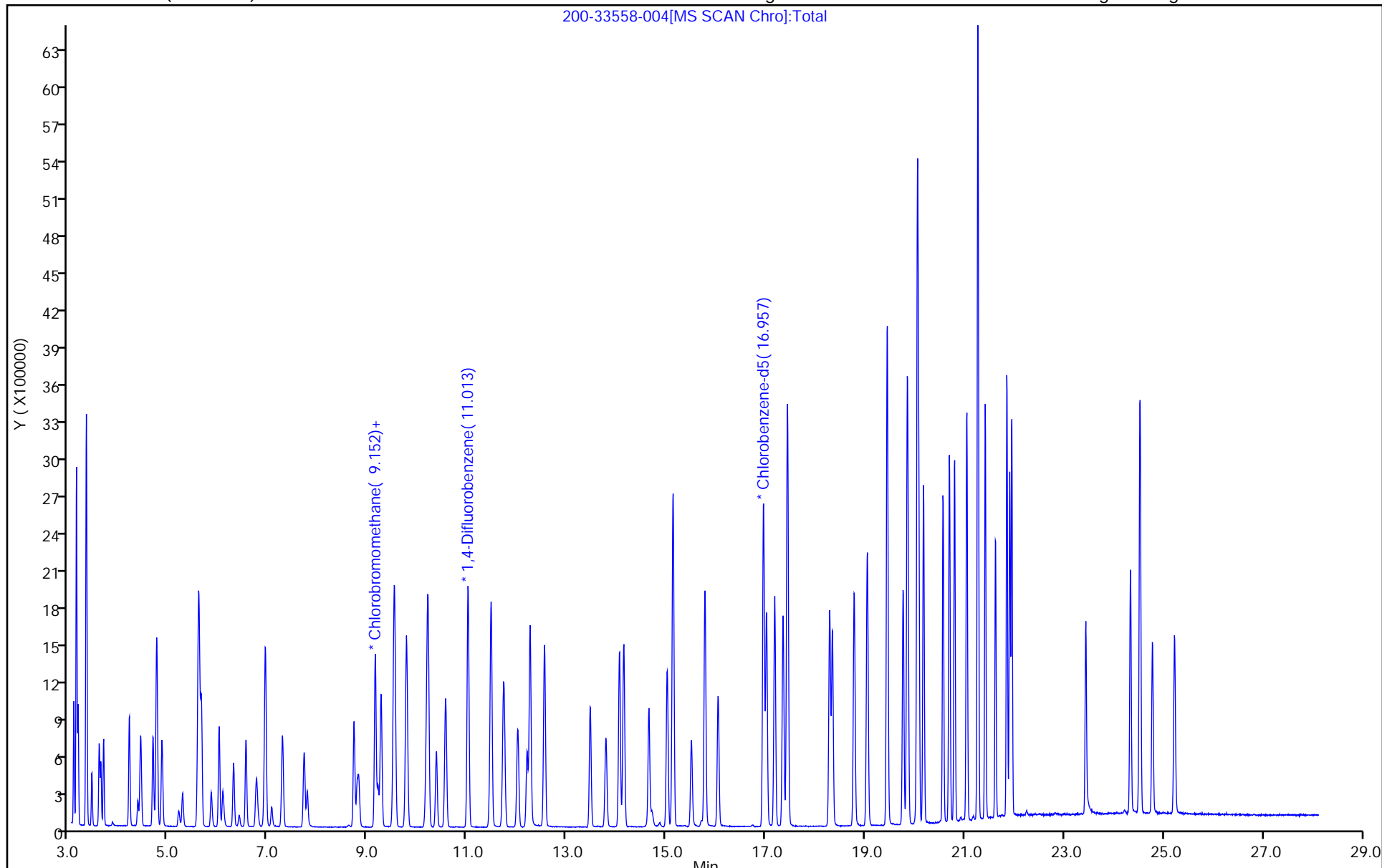
ALS Bottle#: 4

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137900/5  
 Matrix: Air Lab File ID: 33574-4A.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 14:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 11.0   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 10.9   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 10.6   |   | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 10.7   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 10.6   |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 10.5   |   | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 10.6   |   | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 10.8   |   | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 10.9   |   | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 10.8   |   | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 10.5   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 10.5   |   | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 10.5   |   | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 10.7   |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 10.1   |   | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 10.4   |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 10.4   |   | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 10.5   |   | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 10.8   |   | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 10.4   |   | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 11.3   |   | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 10.6   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 10.3   |   | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10.3   |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 10.2   |   | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 12.6   |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 8.05   |   | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 9.35   |   | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 10.1   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 9.11   |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 10.8   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 10.2   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 10.0   |   | 0.20  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137900/5  
 Matrix: Air Lab File ID: 33574-4A.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 14:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 11.3   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 10.8   |   | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 11.3   |   | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 11.9   |   | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 10.6   |   | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 10.5   |   | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 10.6   |   | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 11.4   |   | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 10.3   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 10.1   |   | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 10.6   |   | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 9.47   |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 11.2   |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 10.1   |   | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 10.4   |   | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 10.1   |   | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 10.3   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 20.5   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 10.3   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 10.9   |   | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 9.87   |   | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 10.3   |   | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 10.9   |   | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 10.5   |   | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 10.3   |   | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 10.1   |   | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 10.2   |   | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 9.98   |   | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 10.2   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 10.4   |   | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 10.2   |   | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 10.1   |   | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 10.1   |   | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-137900/5  
 Matrix: Air Lab File ID: 33574-4A.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 14:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137900 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 9.67   |   | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 10.8   |   | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 10.1   |   | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 8.97   |   | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 8.88   |   | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 9.25   |   | 0.50 |  |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-4A.D  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 07-Dec-2018 14:59:30 ALS Bottle#: 8 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0033574-004  
 Misc. Info.: lcs  
 Operator ID: ggg Instrument ID: CHC.i  
 Method: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\TO15\_MasterMethod\_(v1)\_CHC.i.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 10-Dec-2018 17:27:54 Calib Date: 05-Dec-2018 09:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Burlington\ChromData\CHC.i\20181204-33516.b\33516-18.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX0324

First Level Reviewer: phamvu

Date: 10-Dec-2018 17:24:52

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  | 2.962     | 2.962         | 0.000         | 94  | 79999    | 10.0            | 11.1              |       |
| 2 Dichlorodifluoromethane     | 85  | 3.031     | 3.031         | 0.000         | 99  | 386600   | 10.0            | 11.0              |       |
| 3 Chlorodifluoromethane       | 51  | 3.079     | 3.079         | 0.000         | 98  | 194650   | 10.0            | 10.9              |       |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  | 3.287     | 3.287         | 0.000         | 92  | 293851   | 10.0            | 10.6              |       |
| 5 Chloromethane               | 50  | 3.416     | 3.416         | 0.000         | 98  | 71324    | 10.0            | 10.7              |       |
| 6 Butane                      | 43  | 3.618     | 3.618         | 0.000         | 92  | 105987   | 10.0            | 10.6              |       |
| 7 Vinyl chloride              | 62  | 3.656     | 3.656         | 0.000         | 100 | 80630    | 10.0            | 10.5              |       |
| 8 Butadiene                   | 54  | 3.730     | 3.730         | 0.000         | 94  | 54000    | 10.0            | 10.6              |       |
| 10 Bromomethane               | 94  | 4.398     | 4.398         | 0.000         | 96  | 74448    | 10.0            | 10.8              |       |
| 11 Chloroethane               | 64  | 4.632     | 4.632         | 0.000         | 96  | 32073    | 10.0            | 10.9              |       |
| 12 2-Methylbutane             | 43  | 4.712     | 4.718         | -0.006        | 83  | 62772    | 10.0            | 10.8              |       |
| 9 BFB                         |     |           |               |               |     |          |                 |                   |       |
| 13 Vinyl bromide              | 106 | 5.017     | 5.022         | -0.005        | 97  | 90422    | 10.0            | 10.8              |       |
| 14 Trichlorofluoromethane     | 101 | 5.134     | 5.134         | 0.000         | 100 | 341214   | 10.0            | 10.5              |       |
| 16 Pentane                    | 43  | 5.283     | 5.283         | 0.000         | 93  | 123992   | 10.0            | 10.5              |       |
| 17 Ethanol                    | 45  | 5.705     | 5.710         | -0.005        | 95  | 55203    | 15.0            | 20.2              |       |
| 18 Ethyl ether                | 59  | 5.796     | 5.796         | 0.000         | 95  | 54101    | 10.0            | 10.5              |       |
| 19 Acrolein                   | 56  | 6.153     | 6.159         | -0.006        | 97  | 17841    | 10.0            | 7.46              |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 6.223     | 6.223         | 0.000         | 96  | 222717   | 10.0            | 10.5              |       |
| 21 1,1-Dichloroethene         | 96  | 6.249     | 6.244         | 0.005         | 94  | 90398    | 10.0            | 10.5              |       |
| 22 Acetone                    | 43  | 6.468     | 6.468         | 0.000         | 100 | 153416   | 10.0            | 10.7              |       |
| 23 Carbon disulfide           | 76  | 6.623     | 6.628         | -0.005        | 99  | 246759   | 10.0            | 10.4              |       |
| 24 Isopropyl alcohol          | 45  | 6.788     | 6.788         | 0.000         | 98  | 126855   | 10.0            | 10.1              |       |
| 25 3-Chloro-1-propene         | 41  | 7.034     | 7.039         | -0.005        | 89  | 88123    | 10.0            | 10.4              |       |
| 26 Acetonitrile               | 41  | 7.130     | 7.135         | -0.005        | 97  | 47245    | 10.0            | 10.6              |       |
| 27 Methylene Chloride         | 49  | 7.327     | 7.333         | -0.006        | 93  | 102712   | 10.0            | 10.5              |       |
| 28 2-Methyl-2-propanol        | 59  | 7.562     | 7.568         | -0.006        | 96  | 204916   | 10.0            | 10.8              |       |
| 29 Methyl tert-butyl ether    | 73  | 7.749     | 7.749         | 0.000         | 94  | 294764   | 10.0            | 10.4              |       |
| 31 trans-1,2-Dichloroethene   | 61  | 7.781     | 7.781         | 0.000         | 96  | 144090   | 10.0            | 11.3              |       |
| 32 Acrylonitrile              | 53  | 7.899     | 7.904         | -0.005        | 89  | 50301    | 10.0            | 10.6              |       |
| 33 Hexane                     | 57  | 8.187     | 8.192         | -0.005        | 85  | 118296   | 10.0            | 10.6              |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)  | Dlt RT (min.) | Q   | Response  | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|----------------|---------------|-----|-----------|-----------------|-------------------|-------|
| 34 1,1-Dichloroethane          | 63  | 8.646     | 8.646          | 0.000         | 99  | 170999    | 10.0            | 10.3              |       |
| 35 Vinyl acetate               | 43  | 8.736     | 8.736          | 0.000         | 99  | 212496    | 10.0            | 10.6              |       |
| 37 cis-1,2-Dichloroethene      | 96  | 9.761     | 9.766          | -0.005        | 96  | 100442    | 10.0            | 10.2              |       |
| 38 2-Butanone (MEK)            | 72  | 9.804     | 9.804          | 0.000         | 100 | 42664     | 10.0            | 10.3              |       |
| 39 Ethyl acetate               | 88  | 9.863     | 9.863          | -0.001        | 99  | 8163      | 10.0            | 10.3              |       |
| S 30 1,2-Dichloroethene, Total | 61  |           |                |               | 0   |           | 20.0            | 21.5              |       |
| * 40 Chlorobromomethane        | 128 | 10.220    | 10.225         | -0.005        | 79  | 180149    | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  | 10.225    | 10.231         | -0.006        | 58  | 82915     | 10.0            | 8.05              |       |
| 42 Chloroform                  | 83  | 10.364    | 10.370         | -0.006        | 97  | 297142    | 10.0            | 12.6              |       |
| 43 Cyclohexane                 | 84  | 10.620    | 10.620         | 0.000         | 95  | 167103    | 10.0            | 10.1              |       |
| 44 1,1,1-Trichloroethane       | 97  | 10.636    | 10.642         | -0.006        | 95  | 372673    | 10.0            | 9.35              |       |
| 45 Carbon tetrachloride        | 117 | 10.893    | 10.898         | -0.005        | 98  | 391867    | 10.0            | 9.11              |       |
| 46 Isooctane                   | 57  | 11.346    | 11.346         | 0.000         | 96  | 630128    | 10.0            | 10.8              |       |
| 47 Benzene                     | 78  | 11.346    | 11.346         | 0.000         | 99  | 419521    | 10.0            | 10.2              |       |
| 48 1,2-Dichloroethane          | 62  | 11.522    | 11.528         | -0.006        | 99  | 266795    | 10.0            | 10.0              |       |
| 49 n-Heptane                   | 43  | 11.757    | 11.752         | 0.005         | 89  | 237554    | 10.0            | 11.3              |       |
| * 50 1,4-Difluorobenzene       | 114 | 12.205    | 12.205         | 0.000         | 95  | 1311864   | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  | 12.616    | 12.616         | 0.000         | 90  | 89857     | 10.0            | 11.2              |       |
| 53 Trichloroethene             | 95  | 12.675    | 12.675         | 0.000         | 95  | 244319    | 10.0            | 10.8              |       |
| A 51 GRO                       | 1   | 12.966    | (4.708-21.224) |               | 0   | 77120524  | 10.0            | 0                 |       |
| 54 1,2-Dichloropropane         | 63  | 13.214    | 13.219         | -0.005        | 83  | 189848    | 10.0            | 11.9              |       |
| 55 Methyl methacrylate         | 69  | 13.412    | 13.417         | -0.005        | 92  | 187562    | 10.0            | 11.3              |       |
| 56 1,4-Dioxane                 | 88  | 13.449    | 13.449         | 0.000         | 95  | 106937    | 10.0            | 10.6              |       |
| 57 Dibromomethane              | 174 | 13.476    | 13.481         | -0.005        | 95  | 258783    | 10.0            | 10.2              |       |
| 58 Dichlorobromomethane        | 83  | 13.796    | 13.796         | 0.000         | 99  | 449276    | 10.0            | 10.5              |       |
| A 59 TVOC as Toluene           | 1   | 14.650    | (2.952-26.348) |               | 0   | 125048687 | 10.0            | 0                 |       |
| 60 cis-1,3-Dichloropropene     | 75  | 14.740    | 14.746         | -0.006        | 98  | 332989    | 10.0            | 10.6              |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  | 15.023    | 15.023         | 0.000         | 96  | 387215    | 10.0            | 11.4              |       |
| 65 Toluene                     | 92  | 15.338    | 15.338         | 0.000         | 93  | 384756    | 10.0            | 10.3              |       |
| 64 n-Octane                    | 43  | 15.440    | 15.440         | 0.000         | 87  | 385085    | 10.0            | 11.5              |       |
| 66 trans-1,3-Dichloropropene   | 75  | 15.941    | 15.941         | 0.000         | 98  | 325941    | 10.0            | 10.1              |       |
| 67 1,1,2-Trichloroethane       | 83  | 16.315    | 16.315         | 0.000         | 99  | 191743    | 10.0            | 10.6              |       |
| 68 Tetrachloroethene           | 166 | 16.438    | 16.438         | 0.000         | 95  | 358209    | 10.0            | 9.47              |       |
| 69 2-Hexanone                  | 43  | 16.763    | 16.763         | 0.000         | 94  | 380196    | 10.0            | 11.2              |       |
| 71 Chlorodibromomethane        | 129 | 17.073    | 17.078         | -0.005        | 98  | 434895    | 10.0            | 10.1              |       |
| 72 Ethylene Dibromide          | 107 | 17.334    | 17.334         | 0.000         | 99  | 374507    | 10.0            | 10.4              |       |
| * 74 Chlorobenzene-d5          | 117 | 18.241    | 18.241         | 0.000         | 89  | 1362759   | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 | 18.300    | 18.300         | 0.000         | 94  | 529266    | 10.0            | 10.1              |       |
| 76 Ethylbenzene                | 91  | 18.460    | 18.460         | 0.000         | 100 | 898381    | 10.0            | 10.3              |       |
| 77 n-Nonane                    | 57  | 18.620    | 18.626         | -0.006        | 86  | 392822    | 10.0            | 11.2              |       |
| 78 m-Xylene & p-Xylene         | 106 | 18.711    | 18.711         | 0.000         | 0   | 656035    | 20.0            | 20.5              |       |
| 79 o-Xylene                    | 106 | 19.544    | 19.549         | -0.005        | 98  | 322550    | 10.0            | 10.3              |       |
| 80 Styrene                     | 104 | 19.597    | 19.602         | -0.005        | 99  | 528002    | 10.0            | 10.9              |       |
| 81 Bromoform                   | 173 | 20.029    | 20.035         | -0.006        | 96  | 386319    | 10.0            | 9.87              |       |
| S 73 Xylenes, Total            | 106 |           |                |               | 0   |           | 30.0            | 30.7              |       |
| 82 Isopropylbenzene            | 105 | 20.259    | 20.259         | 0.000         | 97  | 1036872   | 10.0            | 10.3              |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  | 20.926    | 20.926         | 0.000         | 99  | 506374    | 10.0            | 10.9              |       |
| 85 N-Propylbenzene             | 91  | 21.006    | 21.006         | 0.000         | 98  | 1230014   | 10.0            | 10.5              |       |
| 86 1,2,3-Trichloropropane      | 75  | 21.022    | 21.022         | 0.000         | 95  | 431426    | 10.0            | 10.7              |       |
| 88 4-Ethyltoluene              | 105 | 21.198    | 21.198         | 0.000         | 98  | 1004611   | 10.0            | 10.3              |       |
| 89 2-Chlorotoluene             | 91  | 21.203    | 21.203         | 0.000         | 95  | 868422    | 10.0            | 10.2              |       |
| 87 n-Decane                    | 57  | 21.214    | 21.214         | 0.000         | 95  | 501294    | 10.0            | 11.4              |       |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 90 1,3,5-Trimethylbenzene  | 105 | 21.310    | 21.310        | 0.000         | 91 | 896762   | 10.0            | 10.1              |       |
| 91 Alpha Methyl Styrene    | 118 | 21.684    | 21.684        | 0.000         | 86 | 427467   | 10.0            | 10.6              |       |
| 92 tert-Butylbenzene       | 119 | 21.806    | 21.807        | 0.000         | 91 | 839253   | 10.0            | 9.98              |       |
| 93 1,2,4-Trimethylbenzene  | 105 | 21.903    | 21.903        | 0.000         | 98 | 899855   | 10.0            | 10.2              |       |
| 94 sec-Butylbenzene        | 105 | 22.137    | 22.137        | 0.000         | 98 | 1270123  | 10.0            | 10.4              |       |
| 95 4-Isopropyltoluene      | 119 | 22.346    | 22.346        | 0.000         | 97 | 1091006  | 10.0            | 10.2              |       |
| 96 1,3-Dichlorobenzene     | 146 | 22.367    | 22.372        | -0.005        | 99 | 602396   | 10.0            | 10.1              |       |
| 97 1,4-Dichlorobenzene     | 146 | 22.506    | 22.506        | 0.000         | 93 | 615716   | 10.0            | 10.1              |       |
| 98 Benzyl chloride         | 91  | 22.698    | 22.698        | 0.000         | 98 | 803693   | 10.0            | 9.67              |       |
| 100 n-Butylbenzene         | 91  | 22.911    | 22.911        | 0.000         | 98 | 1056604  | 10.0            | 10.8              |       |
| 99 Undecane                | 57  | 22.954    | 22.954        | 0.000         | 92 | 581942   | 10.0            | 12.3              |       |
| 101 1,2-Dichlorobenzene    | 146 | 23.029    | 23.029        | 0.000         | 94 | 585303   | 10.0            | 10.1              |       |
| 102 Dodecane               | 57  | 24.486    | 24.486        | 0.000         | 95 | 502300   | 10.0            | 11.0              |       |
| 103 1,2,4-Trichlorobenzene | 180 | 25.436    | 25.436        | 0.000         | 95 | 470186   | 10.0            | 8.97              |       |
| 104 Hexachlorobutadiene    | 225 | 25.622    | 25.628        | -0.006        | 98 | 435497   | 10.0            | 8.88              |       |
| 105 Naphthalene            | 128 | 25.884    | 25.884        | 0.000         | 99 | 955982   | 10.0            | 9.25              |       |
| 106 1,2,3-Trichlorobenzene | 180 | 26.343    | 26.338        | 0.005         | 95 | 417131   | 10.0            | 8.58              |       |

**Reagents:**

ATTO15LCSW\_00790

Amount Added: 200.00

Units: mL

ATTO15CISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\chromna\Burlington\ChromData\CHC.i\20181207-33574.b\33574-4A.D

Injection Date: 07-Dec-2018 14:59:30

Instrument ID: CHC.i

Operator ID: ggg

Lims ID: lcs

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

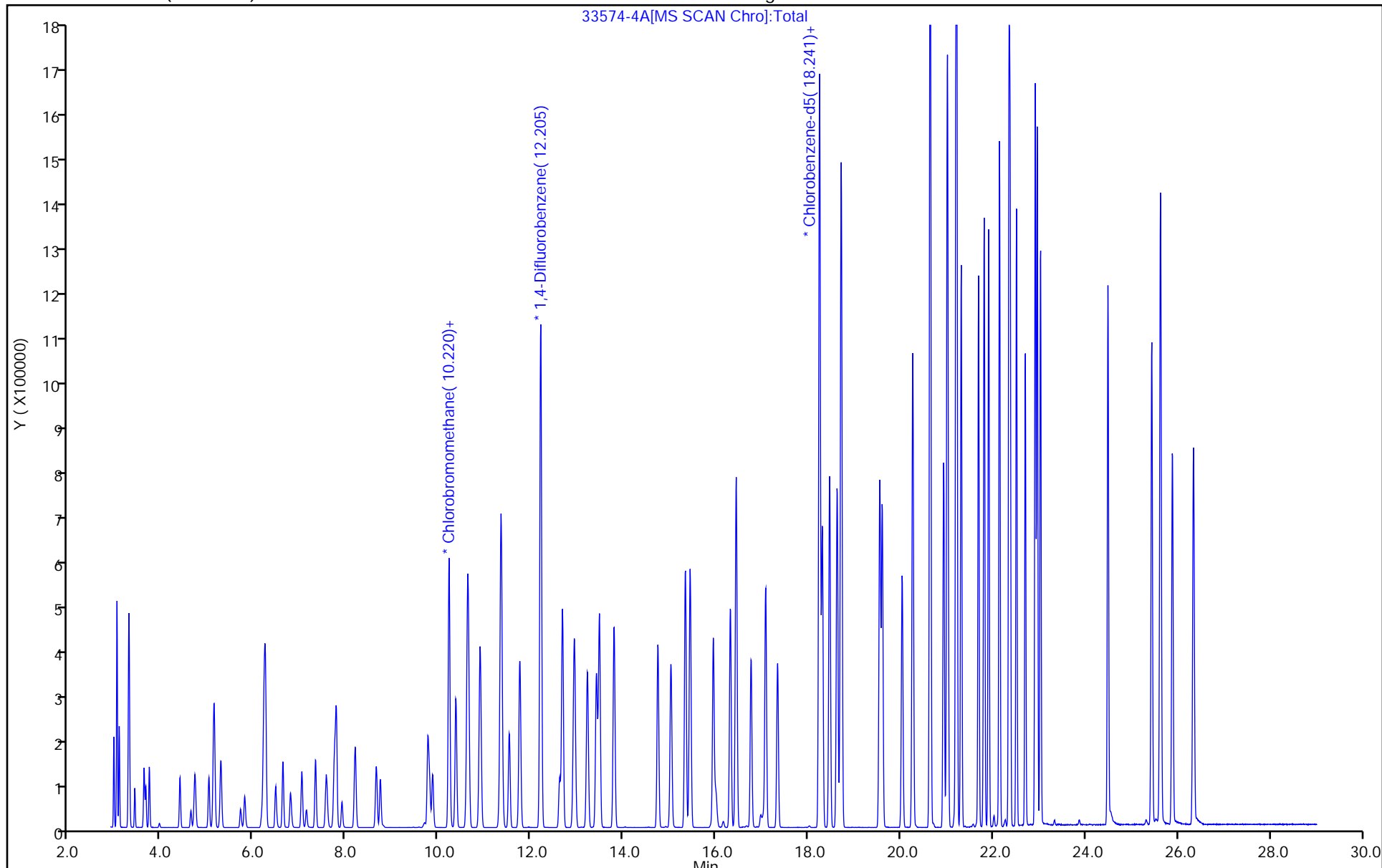
ALS Bottle#: 8

Method: TO15\_MasterMethod\_(v1)\_CHC.i

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 11/27/2018 17:52

Analysis Batch Number: 137447 End Date: 11/28/2018 07:19

| LAB SAMPLE ID       | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID     | COLUMN ID         |
|---------------------|------------------|------------------|-----------------|-----------------|-------------------|
| BFB 200-137447/1    |                  | 11/27/2018 17:52 | 1               | 200-33385-001.D | RTX-624 0.32 (mm) |
| VIBLK 200-137447/2  |                  | 11/27/2018 18:41 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-137447/3  |                  | 11/27/2018 19:32 | 1               |                 | RTX-624 0.32 (mm) |
| IC 200-137447/4     |                  | 11/27/2018 20:22 | 1               | 200-33385-004.D | RTX-624 0.32 (mm) |
| IC 200-137447/5     |                  | 11/27/2018 21:13 | 1               | 200-33385-005.D | RTX-624 0.32 (mm) |
| IC 200-137447/6     |                  | 11/27/2018 22:03 | 1               | 200-33385-006.D | RTX-624 0.32 (mm) |
| IC 200-137447/7     |                  | 11/27/2018 22:54 | 1               | 200-33385-007.D | RTX-624 0.32 (mm) |
| ICIS 200-137447/8   |                  | 11/27/2018 23:44 | 1               | 200-33385-008.D | RTX-624 0.32 (mm) |
| IC 200-137447/9     |                  | 11/28/2018 00:35 | 1               | 200-33385-009.D | RTX-624 0.32 (mm) |
| IC 200-137447/10    |                  | 11/28/2018 01:25 | 1               | 200-33385-010.D | RTX-624 0.32 (mm) |
| IC 200-137447/11    |                  | 11/28/2018 02:15 | 1               | 200-33385-011.D | RTX-624 0.32 (mm) |
| VIBLK 200-137447/12 |                  | 11/28/2018 03:06 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-137447/13 |                  | 11/28/2018 03:56 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 11/28/2018 04:47 | 1               |                 | RTX-624 0.32 (mm) |
| ICV 200-137447/15   |                  | 11/28/2018 05:37 | 1               | 200-33385-015.D | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 11/28/2018 06:28 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-137447/17 |                  | 11/28/2018 07:19 | 1               |                 | RTX-624 0.32 (mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Start Date: 12/04/2018 18:02

Analysis Batch Number: 137783 End Date: 12/05/2018 11:56

| LAB SAMPLE ID       | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID | COLUMN ID         |
|---------------------|------------------|------------------|-----------------|-------------|-------------------|
| BFB 200-137783/1    |                  | 12/04/2018 18:02 | 1               | 33516-01A.D | RTX-624 0.32 (mm) |
| VIBLK 200-137783/2  |                  | 12/04/2018 18:50 | 1               |             | RTX-624 0.32 (mm) |
| VIBLK 200-137783/3  |                  | 12/04/2018 19:43 | 1               |             | RTX-624 0.32 (mm) |
| IC 200-137783/4     |                  | 12/04/2018 20:51 | 1               | 33516-04.D  | RTX-624 0.32 (mm) |
| IC 200-137783/5     |                  | 12/04/2018 21:44 | 1               | 33516-05.D  | RTX-624 0.32 (mm) |
| IC 200-137783/6     |                  | 12/04/2018 22:37 | 1               | 33516-06.D  | RTX-624 0.32 (mm) |
| IC 200-137783/7     |                  | 12/04/2018 23:31 | 1               | 33516-07.D  | RTX-624 0.32 (mm) |
| ICIS 200-137783/8   |                  | 12/05/2018 00:25 | 1               | 33516-08.D  | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 12/05/2018 01:18 | 1               |             | RTX-624 0.32 (mm) |
| IC 200-137783/10    |                  | 12/05/2018 02:11 | 1               | 33516-10.D  | RTX-624 0.32 (mm) |
| IC 200-137783/11    |                  | 12/05/2018 03:05 | 1               | 33516-11.D  | RTX-624 0.32 (mm) |
| VIBLK 200-137783/12 |                  | 12/05/2018 03:58 | 1               |             | RTX-624 0.32 (mm) |
| VIBLK 200-137783/13 |                  | 12/05/2018 04:52 | 1               |             | RTX-624 0.32 (mm) |
| VIBLK 200-137783/14 |                  | 12/05/2018 05:45 | 1               |             | RTX-624 0.32 (mm) |
| IC 200-137783/18    |                  | 12/05/2018 09:17 | 1               | 33516-18.D  | RTX-624 0.32 (mm) |
| ICV 200-137783/21   |                  | 12/05/2018 11:56 | 1               | 33516-21.D  | RTX-624 0.32 (mm) |



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 12/05/2018 14:11

Analysis Batch Number: 137819 End Date: 12/06/2018 11:53

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID     | COLUMN ID         |
|--------------------|------------------|------------------|-----------------|-----------------|-------------------|
| BFB 200-137819/1   |                  | 12/05/2018 14:11 | 1               | 200-33531-001.D | RTX-624 0.32 (mm) |
| CCVIS 200-137819/3 |                  | 12/05/2018 15:48 | 1               | 200-33531-003.D | RTX-624 0.32 (mm) |
| MB 200-137819/5    |                  | 12/05/2018 17:29 | 1               | 200-33531-005.D | RTX-624 0.32 (mm) |
| LCS 200-137819/6   |                  | 12/05/2018 18:19 | 1               | 200-33531-006.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 19:09 | 100             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 19:59 | 100             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 20:50 | 103             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 21:40 | 103             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 22:30 | 108             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/05/2018 23:20 | 2               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 00:10 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 01:00 | 7.14            |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 01:50 | 5               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 02:40 | 25              |                 | RTX-624 0.32 (mm) |
| 200-46353-1        |                  | 12/06/2018 03:30 | 1               | 200-33531-017.D | RTX-624 0.32 (mm) |
| 200-46353-2        |                  | 12/06/2018 04:21 | 1               | 200-33531-018.D | RTX-624 0.32 (mm) |
| 200-46353-3        |                  | 12/06/2018 05:11 | 1               | 200-33531-019.D | RTX-624 0.32 (mm) |
| 200-46353-4        |                  | 12/06/2018 06:01 | 1               | 200-33531-020.D | RTX-624 0.32 (mm) |
| 200-46353-5        |                  | 12/06/2018 06:51 | 1               | 200-33531-021.D | RTX-624 0.32 (mm) |
| 200-46353-6        |                  | 12/06/2018 07:42 | 1               | 200-33531-022.D | RTX-624 0.32 (mm) |
| 200-46353-7        |                  | 12/06/2018 08:32 | 50              | 200-33531-023.D | RTX-624 0.32 (mm) |
| 200-46353-8        |                  | 12/06/2018 09:23 | 20              | 200-33531-024.D | RTX-624 0.32 (mm) |
| 200-46353-9        |                  | 12/06/2018 10:13 | 1               | 200-33531-025.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 11:03 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 11:53 | 1               |                 | RTX-624 0.32 (mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHG.i Start Date: 12/06/2018 14:19

Analysis Batch Number: 137867 End Date: 12/07/2018 08:36

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID     | COLUMN ID         |
|--------------------|------------------|------------------|-----------------|-----------------|-------------------|
| BFB 200-137867/1   |                  | 12/06/2018 14:19 | 1               | 200-33558-001.D | RTX-624 0.32 (mm) |
| CCVIS 200-137867/3 |                  | 12/06/2018 15:53 | 1               | 200-33558-003.D | RTX-624 0.32 (mm) |
| LCS 200-137867/4   |                  | 12/06/2018 16:43 | 1               | 200-33558-004.D | RTX-624 0.32 (mm) |
| MB 200-137867/5    |                  | 12/06/2018 17:33 | 1               | 200-33558-005.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 18:23 | 2               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 19:13 | 10.02           |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 20:03 | 47.6            |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 20:53 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/06/2018 21:42 | 1               |                 | RTX-624 0.32 (mm) |
| 200-46353-6 DL     |                  | 12/06/2018 22:33 | 4               | 200-33558-011.D | RTX-624 0.32 (mm) |
| 200-46353-10       |                  | 12/06/2018 23:23 | 1               | 200-33558-012.D | RTX-624 0.32 (mm) |
| 200-46353-11       |                  | 12/07/2018 00:13 | 1               | 200-33558-013.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 01:03 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 01:53 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 02:43 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 03:33 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 04:24 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 05:14 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 06:04 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 06:55 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 07:45 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 12/07/2018 08:36 | 1               |                 | RTX-624 0.32 (mm) |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Instrument ID: CHC.i Start Date: 12/07/2018 11:07

Analysis Batch Number: 137900 End Date: 12/07/2018 16:45

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID | COLUMN ID         |
|--------------------|------------------|------------------|-----------------|-------------|-------------------|
| BFB 200-137900/1   |                  | 12/07/2018 11:07 | 1               | 33574-01.D  | RTX-624 0.32 (mm) |
| CCVIS 200-137900/3 |                  | 12/07/2018 12:44 | 1               | 33574-03.D  | RTX-624 0.32 (mm) |
| LCS 200-137900/5   |                  | 12/07/2018 14:59 | 1               | 33574-4A.D  | RTX-624 0.32 (mm) |
| MB 200-137900/6    |                  | 12/07/2018 15:52 | 1               | 33574-05.D  | RTX-624 0.32 (mm) |
| 200-46353-2 DL     |                  | 12/07/2018 16:45 | 10              | 33574-06.D  | RTX-624 0.32 (mm) |

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137447 Batch Start Date: 11/27/18 17:52 Batch Analyst: Mick, David G

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL1w<br>00197 | ATTO15CAL2w<br>00271 |
|----------------------|------------------|--------------|-------|-----------------|---------------|---------------|-------------|----------------------|----------------------|
| BFB<br>200-137447/1  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC 200-137447/4      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 35 mL                |                      |
| IC 200-137447/5      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 200 mL               |                      |
| IC 200-137447/6      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 200 mL               |
| IC 200-137447/7      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| ICIS<br>200-137447/8 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC 200-137447/9      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC<br>200-137447/10  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC<br>200-137447/11  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| ICV<br>200-137447/15 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | ATTO15CAL3w<br>00206 | ATTO15CAL4w<br>00706 | ATTO15CAL5w<br>00076 | ATTO15CAL6w<br>00158 | ATTO15CAL7w<br>00079 | ATTO15GIS 00015 |
|----------------------|------------------|--------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|
| BFB<br>200-137447/1  |                  | TO-15        |       |                      |                      |                      |                      |                      | 20 mL           |
| IC 200-137447/4      |                  | TO-15        |       |                      |                      |                      |                      |                      | 20 mL           |
| IC 200-137447/5      |                  | TO-15        |       |                      |                      |                      |                      |                      | 20 mL           |
| IC 200-137447/6      |                  | TO-15        |       |                      |                      |                      |                      |                      | 20 mL           |
| IC 200-137447/7      |                  | TO-15        |       | 200 mL               |                      |                      |                      |                      | 20 mL           |
| ICIS<br>200-137447/8 |                  | TO-15        |       |                      | 200 mL               |                      |                      |                      | 20 mL           |
| IC 200-137447/9      |                  | TO-15        |       |                      |                      | 200 mL               |                      |                      | 20 mL           |
| IC<br>200-137447/10  |                  | TO-15        |       |                      |                      |                      | 200 mL               |                      | 20 mL           |
| IC<br>200-137447/11  |                  | TO-15        |       |                      |                      |                      |                      | 200 mL               | 20 mL           |
| ICV<br>200-137447/15 |                  | TO-15        |       |                      |                      |                      |                      |                      | 20 mL           |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00787 |  |  |  |  |  |
|---------------|------------------|--------------|-------|---------------------|--|--|--|--|--|
|               |                  |              |       |                     |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137447 Batch Start Date: 11/27/18 17:52 Batch Analyst: Mick, David G

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00787 |  |  |  |  |  |
|----------------------|------------------|--------------|-------|---------------------|--|--|--|--|--|
| BFB<br>200-137447/1  |                  | TO-15        |       |                     |  |  |  |  |  |
| IC 200-137447/4      |                  | TO-15        |       |                     |  |  |  |  |  |
| IC 200-137447/5      |                  | TO-15        |       |                     |  |  |  |  |  |
| IC 200-137447/6      |                  | TO-15        |       |                     |  |  |  |  |  |
| IC 200-137447/7      |                  | TO-15        |       |                     |  |  |  |  |  |
| ICIS<br>200-137447/8 |                  | TO-15        |       |                     |  |  |  |  |  |
| IC 200-137447/9      |                  | TO-15        |       |                     |  |  |  |  |  |
| IC<br>200-137447/10  |                  | TO-15        |       |                     |  |  |  |  |  |
| IC<br>200-137447/11  |                  | TO-15        |       |                     |  |  |  |  |  |
| ICV<br>200-137447/15 |                  | TO-15        |       | 200 mL              |  |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137783 Batch Start Date: 12/04/18 18:02 Batch Analyst: Tober, Elizabeth R

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL1w<br>00200 | ATTO15CAL2w<br>00274 |
|----------------------|------------------|--------------|-------|-----------------|---------------|---------------|-------------|----------------------|----------------------|
| BFB<br>200-137783/1  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC 200-137783/4      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 35 mL                |                      |
| IC 200-137783/5      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 200 mL               |                      |
| IC 200-137783/6      |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 200 mL               |
| IC 200-137783/7      |                  | TO-15        |       | 1               | 1             | 100 mL        | 200 mL      |                      |                      |
| ICIS<br>200-137783/8 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC<br>200-137783/10  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC<br>200-137783/11  |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |
| IC<br>200-137783/18  |                  | TO-15        |       | 1               | 1             | 150 mL        | 200 mL      |                      |                      |
| ICV<br>200-137783/21 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      |                      |

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | ATTO15CAL3w<br>00210 | ATTO15CAL4w<br>00715 | ATTO15CAL6w<br>00161 | ATTO15CAL7w<br>00080 | ATTO15CISs<br>00010 | ATTO15LCSW<br>00790 |
|----------------------|------------------|--------------|-------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
| BFB<br>200-137783/1  |                  | TO-15        |       |                      |                      |                      |                      | 20 mL               |                     |
| IC 200-137783/4      |                  | TO-15        |       |                      |                      |                      |                      | 20 mL               |                     |
| IC 200-137783/5      |                  | TO-15        |       |                      |                      |                      |                      | 20 mL               |                     |
| IC 200-137783/6      |                  | TO-15        |       |                      |                      |                      |                      | 20 mL               |                     |
| IC 200-137783/7      |                  | TO-15        |       | 200 mL               |                      |                      |                      | 20 mL               |                     |
| ICIS<br>200-137783/8 |                  | TO-15        |       |                      | 200 mL               |                      |                      | 20 mL               |                     |
| IC<br>200-137783/10  |                  | TO-15        |       |                      |                      | 200 mL               |                      | 20 mL               |                     |
| IC<br>200-137783/11  |                  | TO-15        |       |                      |                      |                      | 200 mL               | 20 mL               |                     |
| IC<br>200-137783/18  |                  | TO-15        |       |                      |                      | 150 mL               |                      | 20 mL               |                     |
| ICV<br>200-137783/21 |                  | TO-15        |       |                      |                      |                      |                      | 20 mL               | 200 mL              |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137783 Batch Start Date: 12/04/18 18:02 Batch Analyst: Tober, Elizabeth R

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Batch Notes |  |
|-------------|--|
|             |  |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137819 Batch Start Date: 12/05/18 14:11 Batch Analyst: Bunma, Arthit 1

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w<br>00706 | ATTO15GIS 00015 |
|-----------------------|------------------|--------------|-------|-----------------|---------------|---------------|-------------|----------------------|-----------------|
| BFB<br>200-137819/1   |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| CCVIS<br>200-137819/3 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 200 mL               | 20 mL           |
| MB 200-137819/5       |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| LCS<br>200-137819/6   |                  | TO-15        |       | 1               | 1             | 44 mL         | 200 mL      |                      | 20 mL           |
| 200-46353-A-1         | AA-1_20181120    | TO-15        | T     | 1               | 1             | 326 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-2         | IA-1_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-3         | IA-2_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-4         | IA-3_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-5         | IA-4_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-6         | IA-5_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-7         | MP-1_20181120    | TO-15        | T     | 1               | 1             | 22 mL         | 200 mL      |                      | 20 mL           |
| 200-46353-A-8         | MP-2_20181120    | TO-15        | T     | 1               | 1             | 24 mL         | 200 mL      |                      | 20 mL           |
| 200-46353-A-9         | MP-3_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00791 | AnalysisComment                              |  |  |  |  |
|-----------------------|------------------|--------------|-------|---------------------|--|--|--|--|--|
| BFB<br>200-137819/1   |                  | TO-15        |       |                     |  |  |  |  |  |
| CCVIS<br>200-137819/3 |                  | TO-15        |       |                     |  |  |  |  |  |
| MB 200-137819/5       |                  | TO-15        |       |                     |  |  |  |  |  |
| LCS<br>200-137819/6   |                  | TO-15        |       | 200 mL              |  |  |  |  |  |
| 200-46353-A-1         | AA-1_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-2         | IA-1_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-3         | IA-2_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-4         | IA-3_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-5         | IA-4_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-6         | IA-5_20181120    | TO-15        | T     |                     | Acetone<br>exceeded<br>calibration<br>range. |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137819 Batch Start Date: 12/05/18 14:11 Batch Analyst: Bunma, Arthit 1

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00791 | AnalysisComment |  |  |  |  |
|---------------|------------------|--------------|-------|---------------------|-----------------|--|--|--|--|
| 200-46353-A-7 | MP-1_20181120    | TO-15        | T     |                     |                 |  |  |  |  |
| 200-46353-A-8 | MP-2_20181120    | TO-15        | T     |                     |                 |  |  |  |  |
| 200-46353-A-9 | MP-3_20181120    | TO-15        | T     |                     |                 |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137867 Batch Start Date: 12/06/18 14:19 Batch Analyst: Puangmalee, Kesanee 1

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w<br>00706 | ATTO15GIS 00015 |
|-----------------------|------------------|--------------|-------|-----------------|---------------|---------------|-------------|----------------------|-----------------|
| BFB<br>200-137867/1   |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| CCVIS<br>200-137867/3 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 200 mL               | 20 mL           |
| LCS<br>200-137867/4   |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| MB 200-137867/5       |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-6         | IA-5_20181120    | TO-15        | T     | 1               | 1             | 50 mL         | 200 mL      |                      | 20 mL           |
| 200-46353-A-10        | MP-4_20181120    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |
| 200-46353-A-11        | MP-5_20181119    | TO-15        | T     | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL           |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00791 |  |  |  |  |  |
|-----------------------|------------------|--------------|-------|---------------------|--|--|--|--|--|
| BFB<br>200-137867/1   |                  | TO-15        |       |                     |  |  |  |  |  |
| CCVIS<br>200-137867/3 |                  | TO-15        |       |                     |  |  |  |  |  |
| LCS<br>200-137867/4   |                  | TO-15        |       | 200 mL              |  |  |  |  |  |
| MB 200-137867/5       |                  | TO-15        |       |                     |  |  |  |  |  |
| 200-46353-A-6         | IA-5_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-10        | MP-4_20181120    | TO-15        | T     |                     |  |  |  |  |  |
| 200-46353-A-11        | MP-5_20181119    | TO-15        | T     |                     |  |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

AIR - GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1

SDG No.: 200-46353-1

Batch Number: 137900 Batch Start Date: 12/07/18 11:07 Batch Analyst: Pham, Vu T

Batch Method: TO-15 Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialPressure | FinalPressure | InitialAmount | FinalAmount | ATTO15CAL4w<br>00715 | ATTO15CISs<br>00010 |
|-----------------------|------------------|--------------|-------|-----------------|---------------|---------------|-------------|----------------------|---------------------|
| BFB<br>200-137900/1   |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL               |
| CCVIS<br>200-137900/3 |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      | 200 mL               | 20 mL               |
| LCS<br>200-137900/5   |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL               |
| MB 200-137900/6       |                  | TO-15        |       | 1               | 1             | 200 mL        | 200 mL      |                      | 20 mL               |
| 200-46353-A-2         | IA-1_20181120    | TO-15        | T     | 1               | 1             | 20 mL         | 200 mL      |                      | 20 mL               |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | ATTO15LCSW<br>00790 |  |  |  |  |  |
|-----------------------|------------------|--------------|-------|---------------------|--|--|--|--|--|
| BFB<br>200-137900/1   |                  | TO-15        |       |                     |  |  |  |  |  |
| CCVIS<br>200-137900/3 |                  | TO-15        |       |                     |  |  |  |  |  |
| LCS<br>200-137900/5   |                  | TO-15        |       | 200 mL              |  |  |  |  |  |
| MB 200-137900/6       |                  | TO-15        |       |                     |  |  |  |  |  |
| 200-46353-A-2         | IA-1_20181120    | TO-15        | T     |                     |  |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



## Summa Canister Dilution Worksheet

Client: AKRF Inc

Job No.: 200-46353-1  
SDG No.: 200-46353-1

| Lab Sample ID | Canister Volume (L) | Preadjusted Pressure ("Hg) | Preadjusted Pressure (atm) | Preadjusted Volume (L) | Adjusted Pressure (psig) | Adjusted Pressure (atm) | Adjusted Volume (L) | Initial Volume (mL) | Dilution Factor | Final Dilution Factor | Date     | Time  | Analyst          |
|---------------|---------------------|----------------------------|----------------------------|------------------------|--------------------------|-------------------------|---------------------|---------------------|-----------------|-----------------------|----------|-------|------------------|
| 200-46353-1   | 6                   | -15.2                      | 0.49                       | 2.95                   | -2.9                     | 0.80                    | 4.82                |                     | 1.63            | 1.63                  | 12/05/18 | 21:01 | Pham, Vu T       |
| 200-46353-7   | 6                   | -16.2                      | 0.46                       | 2.75                   | -4.0                     | 0.73                    | 4.37                |                     | 1.59            | 1.59                  | 11/24/18 | 15:33 | Tice, Melissa L. |
| 200-46353-7   | 6                   | -6.2                       | 0.79                       | 4.76                   | 26.4                     | 2.80                    | 16.78               |                     | 3.53            | 5.60                  | 12/05/18 | 21:11 | Pham, Vu T       |
| 200-46353-8   | 6                   | -4.6                       | 0.85                       | 5.08                   | 14.9                     | 2.01                    | 12.08               |                     | 2.38            | 2.38                  | 12/05/18 | 21:18 | Pham, Vu T       |

**Formulae:**

- Preadjusted Volume (L) = ( Preadjusted Pressure ("Hg) + 29.92 "Hg \* Vol L ) / 29.92 "Hg
- Adjusted Volume (L) = ( Adjusted Pressure (psig) + 14.7 psig \* Vol L ) / 14.7 psig
- Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

**Where:**

- 29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)
- 14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)

# Pre-shipment Clean Canister Certification Report

## Canister Cleaning & Pre-shipment Leak Test

| System ID |        | Cleaning Date               |              | Technician               |             | Canister Size            |          | Certification Type: |       |       |
|-----------|--------|-----------------------------|--------------|--------------------------|-------------|--------------------------|----------|---------------------|-------|-------|
| Oven 3/4  |        | 10/28/2018                  |              | SML                      |             | 1L 6L                    |          | Individual Batch    |       |       |
| Max DF#   |        | # Cycles                    |              | Initial Reading          |             | Final Reading            |          |                     |       |       |
| 10        |        | 26                          |              | Gauge: Date: Time: Temp: |             | Gauge: Date: Time: Temp: |          |                     |       |       |
| Port      | Can ID | Initial <sup>1</sup> (psia) | Final (psia) | Diff. <sup>3</sup>       | Final ("Hg) | Gauge:                   | Date:    | Time:               | Tech: | Temp: |
| 1         | 5017   | 1.04                        | 1.14         | .10                      | 30.3        | G26                      | 10/28/18 | 1400                | S     | 22.0  |
| 2         | 2512   | 1.21                        | 1.21         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 3         | 3036   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 4         | 5154   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 5         | 3424   | 1.21                        | 1.21         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 6         | 5634   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 7         | 4141   | 1.08                        | 1.08         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 8         | 4445   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 9         | 5447   | 1.18                        | 1.18         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 10        | 5982   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      |          |                     |       |       |
| 11        | 5621   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      | 11/8/18  | 1450                | S     | 22.0  |
| 12        | 3483   | 1.04                        | 1.04         | .00                      | 30.3        | G26                      | 10/29/18 | 1600                | S     | 22.0  |

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>3</sup> Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.


If same frame was not met, the PM must authorize shipment of canister PM Authorization Date:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Clean Canister Certification Analysis & Authorization of Release to Inventory

| Test Method: | Inventory Level |          |              |                  | Secondary Review |
|--------------|-----------------|----------|--------------|------------------|------------------|
|              | TO15 Routine    | TO15 LL  | TO15 Limited | TO15 Review Date |                  |
| Can ID       | 5621            | 10/29/18 | 32939        | BK               | 11/1/18          |
| Sequence     |                 |          |              |                  |                  |
| Analyst      |                 |          |              |                  |                  |
| Date         |                 |          |              |                  |                  |
| Reviewer     |                 |          |              |                  |                  |

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).  
 Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).  
 Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).  
 Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).  
 Inventory Level Limited: Canisters may only be used for certain projects.



200-45925-A-11  
 5621  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 10/28/2018 12:00 AM 200-1217688

Loc: 200  
**45925**  
**#11**  
**A**

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 200-32939-004.D

Lab ID: LCS 200-136163/4

Client ID: \_\_\_\_\_

| COMPOUND                      | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| Propylene                     | 10.0                        | 12.0                              | 121             | 58-129              |   |
| Dichlorodifluoromethane       | 10.0                        | 11.2                              | 112             | 68-128              |   |
| Freon 22                      | 10.0                        | 11.4                              | 114             | 64-128              |   |
| 1,2-Dichlorotetrafluoroethane | 10.0                        | 11.1                              | 111             | 78-138              |   |
| Chloromethane                 | 10.0                        | 11.2                              | 112             | 57-126              |   |
| n-Butane                      | 10.0                        | 12.6                              | 126             | 56-130              |   |
| Vinyl chloride                | 10.0                        | 10.1                              | 101             | 62-125              |   |
| 1,3-Butadiene                 | 10.0                        | 10.1                              | 101             | 59-125              |   |
| Bromomethane                  | 10.0                        | 9.45                              | 95              | 68-128              |   |
| Chloroethane                  | 10.0                        | 9.60                              | 96              | 65-125              |   |
| Bromoethene (Vinyl Bromide)   | 10.0                        | 9.78                              | 98              | 67-127              |   |
| Trichlorofluoromethane        | 10.0                        | 10.0                              | 100             | 67-127              |   |
| Ethanol                       | 15.0                        | 17.3                              | 115             | 28-168              |   |
| Freon TF                      | 10.0                        | 8.37                              | 84              | 68-128              |   |
| 1,1-Dichloroethene            | 10.0                        | 8.57                              | 86              | 67-127              |   |
| Acetone                       | 10.0                        | 9.10                              | 91              | 64-136              |   |
| Isopropyl alcohol             | 10.0                        | 10.4                              | 104             | 55-124              |   |
| Carbon disulfide              | 10.0                        | 10.9                              | 109             | 81-141              |   |
| 3-Chloropropene               | 10.0                        | 8.17                              | 82              | 53-133              |   |
| Methylene Chloride            | 10.0                        | 10.2                              | 102             | 62-122              |   |
| tert-Butyl alcohol            | 10.0                        | 10.7                              | 107             | 64-124              |   |
| Methyl tert-butyl ether       | 10.0                        | 8.68                              | 87              | 67-127              |   |
| trans-1,2-Dichloroethene      | 10.0                        | 11.5                              | 115             | 72-132              |   |
| n-Hexane                      | 10.0                        | 10.9                              | 109             | 71-131              |   |
| 1,1-Dichloroethane            | 10.0                        | 9.72                              | 97              | 66-126              |   |
| Vinyl acetate                 | 10.0                        | 9.49                              | 95              | 62-130              |   |
| Ethyl acetate                 | 10.0                        | 8.07                              | 81              | 75-135              |   |
| Methyl Ethyl Ketone           | 10.0                        | 8.60                              | 86              | 62-122              |   |
| cis-1,2-Dichloroethene        | 10.0                        | 9.20                              | 92              | 67-127              |   |
| Chloroform                    | 10.0                        | 9.41                              | 94              | 69-129              |   |
| Tetrahydrofuran               | 10.0                        | 11.4                              | 114             | 61-136              |   |
| 1,1,1-Trichloroethane         | 10.0                        | 10.7                              | 107             | 70-130              |   |
| Cyclohexane                   | 10.0                        | 10.9                              | 109             | 69-129              |   |
| Carbon tetrachloride          | 10.0                        | 11.0                              | 110             | 62-143              |   |
| 2,2,4-Trimethylpentane        | 10.0                        | 11.3                              | 113             | 67-127              |   |
| Benzene                       | 10.0                        | 9.44                              | 94              | 67-127              |   |
| 1,2-Dichloroethane            | 10.0                        | 10.8                              | 108             | 67-132              |   |
| n-Heptane                     | 10.0                        | 13.1                              | 131             | 62-130              | * |
| Trichloroethene               | 10.0                        | 10.2                              | 102             | 68-128              |   |
| Methyl methacrylate           | 10.0                        | 8.55                              | 86              | 70-130              |   |
| 1,2-Dichloropropane           | 10.0                        | 9.16                              | 92              | 67-127              |   |
| 1,4-Dioxane                   | 10.0                        | 9.34                              | 93              | 66-132              |   |

# Column to be used to flag recovery and RPD values

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 200-32939-004.D  
 Lab ID: LCS 200-136163/4 Client ID: \_\_\_\_\_

| COMPOUND                            | SPIKE<br>ADDED<br>(ppb v/v) | LCS<br>CONCENTRATION<br>(ppb v/v) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------------------------------|-----------------------------|-----------------------------------|-----------------|---------------------|---|
| Bromodichloromethane                | 10.0                        | 10.6                              | 106             | 69-129              |   |
| cis-1,3-Dichloropropene             | 10.0                        | 9.27                              | 93              | 70-130              |   |
| methyl isobutyl ketone              | 10.0                        | 11.5                              | 115             | 62-130              |   |
| Toluene                             | 10.0                        | 8.96                              | 90              | 67-127              |   |
| trans-1,3-Dichloropropene           | 10.0                        | 10.0                              | 101             | 69-129              |   |
| 1,1,2-Trichloroethane               | 10.0                        | 9.58                              | 96              | 69-129              |   |
| Tetrachloroethene                   | 10.0                        | 10.0                              | 100             | 70-130              |   |
| Methyl Butyl Ketone<br>(2-Hexanone) | 10.0                        | 10.5                              | 105             | 61-127              |   |
| Dibromochloromethane                | 10.0                        | 9.77                              | 98              | 66-130              |   |
| 1,2-Dibromoethane                   | 10.0                        | 9.38                              | 94              | 70-130              |   |
| Chlorobenzene                       | 10.0                        | 9.25                              | 93              | 68-128              |   |
| Ethylbenzene                        | 10.0                        | 8.97                              | 90              | 68-128              |   |
| m,p-Xylene                          | 20.0                        | 17.6                              | 88              | 68-128              |   |
| Xylene, o-                          | 10.0                        | 8.98                              | 90              | 67-127              |   |
| Styrene                             | 10.0                        | 8.76                              | 88              | 68-128              |   |
| Bromoform                           | 10.0                        | 9.60                              | 96              | 34-170              |   |
| Cumene                              | 10.0                        | 8.84                              | 88              | 67-127              |   |
| 1,1,2,2-Tetrachloroethane           | 10.0                        | 8.88                              | 89              | 69-129              |   |
| n-Propylbenzene                     | 10.0                        | 9.32                              | 93              | 67-127              |   |
| 4-Ethyltoluene                      | 10.0                        | 9.57                              | 96              | 69-129              |   |
| 1,3,5-Trimethylbenzene              | 10.0                        | 8.96                              | 90              | 65-125              |   |
| 2-Chlorotoluene                     | 10.0                        | 9.97                              | 100             | 67-127              |   |
| tert-Butylbenzene                   | 10.0                        | 8.95                              | 90              | 63-125              |   |
| 1,2,4-Trimethylbenzene              | 10.0                        | 9.29                              | 93              | 65-125              |   |
| sec-Butylbenzene                    | 10.0                        | 8.98                              | 90              | 66-126              |   |
| 4-Isopropyltoluene                  | 10.0                        | 9.35                              | 94              | 67-129              |   |
| 1,3-Dichlorobenzene                 | 10.0                        | 9.52                              | 95              | 67-127              |   |
| 1,4-Dichlorobenzene                 | 10.0                        | 9.22                              | 92              | 66-126              |   |
| Benzyl chloride                     | 10.0                        | 8.11                              | 81              | 54-135              |   |
| n-Butylbenzene                      | 10.0                        | 9.41                              | 94              | 67-127              |   |
| 1,2-Dichlorobenzene                 | 10.0                        | 9.20                              | 92              | 67-127              |   |
| 1,2,4-Trichlorobenzene              | 10.0                        | 8.88                              | 89              | 59-126              |   |
| Hexachlorobutadiene                 | 10.0                        | 8.05                              | 80              | 62-130              |   |
| Naphthalene                         | 10.0                        | 8.34                              | 83              | 50-121              |   |

# Column to be used to flag recovery and RPD values



FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 200-32939-005.D Lab Sample ID: MB 200-136163/5  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHG.i Date Analyzed: 10/31/2018 15:37  
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID      | DATE ANALYZED    |
|------------------|------------------|---------------------|------------------|
|                  | LCS 200-136163/4 | 200-32939-0<br>04.D | 10/31/2018 14:46 |
| 5621             | 200-45925-11     | 200-32939-0<br>18.D | 11/01/2018 02:29 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-136163/5  
 Matrix: Air Lab File ID: 200-32939-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 10/31/2018 15:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                 | RESULT | Q | RL   | RL   |
|-----------|-------------------------------|--------|---|------|------|
| 115-07-1  | Propylene                     | 5.0    | U | 5.0  | 5.0  |
| 75-71-8   | Dichlorodifluoromethane       | 0.50   | U | 0.50 | 0.50 |
| 75-45-6   | Freon 22                      | 0.50   | U | 0.50 | 0.50 |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane | 0.20   | U | 0.20 | 0.20 |
| 74-87-3   | Chloromethane                 | 0.50   | U | 0.50 | 0.50 |
| 106-97-8  | n-Butane                      | 0.50   | U | 0.50 | 0.50 |
| 75-01-4   | Vinyl chloride                | 0.20   | U | 0.20 | 0.20 |
| 106-99-0  | 1,3-Butadiene                 | 0.20   | U | 0.20 | 0.20 |
| 74-83-9   | Bromomethane                  | 0.20   | U | 0.20 | 0.20 |
| 75-00-3   | Chloroethane                  | 0.50   | U | 0.50 | 0.50 |
| 593-60-2  | Bromoethene (Vinyl Bromide)   | 0.20   | U | 0.20 | 0.20 |
| 75-69-4   | Trichlorofluoromethane        | 0.20   | U | 0.20 | 0.20 |
| 64-17-5   | Ethanol                       | 5.0    | U | 5.0  | 5.0  |
| 76-13-1   | Freon TF                      | 0.20   | U | 0.20 | 0.20 |
| 75-35-4   | 1,1-Dichloroethene            | 0.20   | U | 0.20 | 0.20 |
| 67-64-1   | Acetone                       | 5.0    | U | 5.0  | 5.0  |
| 67-63-0   | Isopropyl alcohol             | 5.0    | U | 5.0  | 5.0  |
| 75-15-0   | Carbon disulfide              | 0.50   | U | 0.50 | 0.50 |
| 107-05-1  | 3-Chloropropene               | 0.50   | U | 0.50 | 0.50 |
| 75-09-2   | Methylene Chloride            | 0.50   | U | 0.50 | 0.50 |
| 75-65-0   | tert-Butyl alcohol            | 5.0    | U | 5.0  | 5.0  |
| 1634-04-4 | Methyl tert-butyl ether       | 0.20   | U | 0.20 | 0.20 |
| 156-60-5  | trans-1,2-Dichloroethene      | 0.20   | U | 0.20 | 0.20 |
| 110-54-3  | n-Hexane                      | 0.20   | U | 0.20 | 0.20 |
| 75-34-3   | 1,1-Dichloroethane            | 0.20   | U | 0.20 | 0.20 |
| 108-05-4  | Vinyl acetate                 | 5.0    | U | 5.0  | 5.0  |
| 141-78-6  | Ethyl acetate                 | 5.0    | U | 5.0  | 5.0  |
| 78-93-3   | Methyl Ethyl Ketone           | 0.50   | U | 0.50 | 0.50 |
| 156-59-2  | cis-1,2-Dichloroethene        | 0.20   | U | 0.20 | 0.20 |
| 540-59-0  | 1,2-Dichloroethene, Total     | 0.40   | U | 0.40 | 0.40 |
| 67-66-3   | Chloroform                    | 0.20   | U | 0.20 | 0.20 |
| 109-99-9  | Tetrahydrofuran               | 5.0    | U | 5.0  | 5.0  |
| 71-55-6   | 1,1,1-Trichloroethane         | 0.20   | U | 0.20 | 0.20 |
| 110-82-7  | Cyclohexane                   | 0.20   | U | 0.20 | 0.20 |
| 56-23-5   | Carbon tetrachloride          | 0.20   | U | 0.20 | 0.20 |
| 540-84-1  | 2,2,4-Trimethylpentane        | 0.20   | U | 0.20 | 0.20 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-136163/5  
 Matrix: Air Lab File ID: 200-32939-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 10/31/2018 15:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                    | RESULT | Q | RL   | RL   |
|-------------|----------------------------------|--------|---|------|------|
| 71-43-2     | Benzene                          | 0.20   | U | 0.20 | 0.20 |
| 107-06-2    | 1,2-Dichloroethane               | 0.20   | U | 0.20 | 0.20 |
| 142-82-5    | n-Heptane                        | 0.20   | U | 0.20 | 0.20 |
| 79-01-6     | Trichloroethene                  | 0.20   | U | 0.20 | 0.20 |
| 80-62-6     | Methyl methacrylate              | 0.50   | U | 0.50 | 0.50 |
| 78-87-5     | 1,2-Dichloropropane              | 0.20   | U | 0.20 | 0.20 |
| 123-91-1    | 1,4-Dioxane                      | 5.0    | U | 5.0  | 5.0  |
| 75-27-4     | Bromodichloromethane             | 0.20   | U | 0.20 | 0.20 |
| 10061-01-5  | cis-1,3-Dichloropropene          | 0.20   | U | 0.20 | 0.20 |
| 108-10-1    | methyl isobutyl ketone           | 0.50   | U | 0.50 | 0.50 |
| 108-88-3    | Toluene                          | 0.20   | U | 0.20 | 0.20 |
| 10061-02-6  | trans-1,3-Dichloropropene        | 0.20   | U | 0.20 | 0.20 |
| 79-00-5     | 1,1,2-Trichloroethane            | 0.20   | U | 0.20 | 0.20 |
| 127-18-4    | Tetrachloroethene                | 0.20   | U | 0.20 | 0.20 |
| 591-78-6    | Methyl Butyl Ketone (2-Hexanone) | 0.50   | U | 0.50 | 0.50 |
| 124-48-1    | Dibromochloromethane             | 0.20   | U | 0.20 | 0.20 |
| 106-93-4    | 1,2-Dibromoethane                | 0.20   | U | 0.20 | 0.20 |
| 108-90-7    | Chlorobenzene                    | 0.20   | U | 0.20 | 0.20 |
| 100-41-4    | Ethylbenzene                     | 0.20   | U | 0.20 | 0.20 |
| 179601-23-1 | m,p-Xylene                       | 0.50   | U | 0.50 | 0.50 |
| 95-47-6     | Xylene, o-                       | 0.20   | U | 0.20 | 0.20 |
| 1330-20-7   | Xylene (total)                   | 0.70   | U | 0.70 | 0.70 |
| 100-42-5    | Styrene                          | 0.20   | U | 0.20 | 0.20 |
| 75-25-2     | Bromoform                        | 0.20   | U | 0.20 | 0.20 |
| 98-82-8     | Cumene                           | 0.20   | U | 0.20 | 0.20 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane        | 0.20   | U | 0.20 | 0.20 |
| 103-65-1    | n-Propylbenzene                  | 0.20   | U | 0.20 | 0.20 |
| 622-96-8    | 4-Ethyltoluene                   | 0.20   | U | 0.20 | 0.20 |
| 108-67-8    | 1,3,5-Trimethylbenzene           | 0.20   | U | 0.20 | 0.20 |
| 95-49-8     | 2-Chlorotoluene                  | 0.20   | U | 0.20 | 0.20 |
| 98-06-6     | tert-Butylbenzene                | 0.20   | U | 0.20 | 0.20 |
| 95-63-6     | 1,2,4-Trimethylbenzene           | 0.20   | U | 0.20 | 0.20 |
| 135-98-8    | sec-Butylbenzene                 | 0.20   | U | 0.20 | 0.20 |
| 99-87-6     | 4-Isopropyltoluene               | 0.20   | U | 0.20 | 0.20 |
| 541-73-1    | 1,3-Dichlorobenzene              | 0.20   | U | 0.20 | 0.20 |
| 106-46-7    | 1,4-Dichlorobenzene              | 0.20   | U | 0.20 | 0.20 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-136163/5  
 Matrix: Air Lab File ID: 200-32939-005.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 10/31/2018 15:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | RESULT | Q | RL   | RL   |
|----------|------------------------|--------|---|------|------|
| 100-44-7 | Benzyl chloride        | 0.20   | U | 0.20 | 0.20 |
| 104-51-8 | n-Butylbenzene         | 0.20   | U | 0.20 | 0.20 |
| 95-50-1  | 1,2-Dichlorobenzene    | 0.20   | U | 0.20 | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50   | U | 0.50 | 0.50 |
| 87-68-3  | Hexachlorobutadiene    | 0.20   | U | 0.20 | 0.20 |
| 91-20-3  | Naphthalene            | 0.50   | U | 0.50 | 0.50 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 31-Oct-2018 15:37:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032939-005  
 Operator ID: wrd Instrument ID: CHG.i  
 Method: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 01-Nov-2018 09:52:35 Calib Date: 26-Sep-2018 14:32:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20180925-32354.b\200-32354-022.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: puangmaleek

Date: 01-Nov-2018 09:52:34

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-----------------|-------------------|-------|
| 1 Propene                     | 41  |           | 3.096         |               |    |          |                 | ND                | U     |
| 2 Dichlorodifluoromethane     | 85  |           | 3.149         |               |    |          |                 | ND                | U     |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |               |    |          |                 | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.347         |               |    |          |                 | ND                | U     |
| 5 Chloromethane               | 50  |           | 3.460         |               |    |          |                 | ND                | U     |
| 6 Butane                      | 43  |           | 3.609         |               |    |          |                 | ND                | U     |
| 7 Vinyl chloride              | 62  |           | 3.641         |               |    |          |                 | ND                |       |
| 8 Butadiene                   | 54  |           | 3.695         |               |    |          |                 | ND                |       |
| 10 Bromomethane               | 94  |           | 4.214         |               |    |          |                 | ND                |       |
| 11 Chloroethane               | 64  |           | 4.385         |               |    |          |                 | ND                |       |
| 12 2-Methylbutane             | 43  |           | 4.444         |               |    |          |                 | ND                | U     |
| 13 Vinyl bromide              | 106 |           | 4.695         |               |    |          |                 | ND                |       |
| 14 Trichlorofluoromethane     | 101 |           | 4.770         |               |    |          |                 | ND                |       |
| 16 Pentane                    | 43  |           | 4.872         |               |    |          |                 | ND                | U     |
| 17 Ethanol                    | 45  |           | 5.209         |               |    |          |                 | ND                |       |
| 18 Ethyl ether                | 59  |           | 5.289         |               |    |          |                 | ND                |       |
| 19 Acrolein                   | 56  |           | 5.605         |               |    |          |                 | ND                |       |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.615         |               |    |          |                 | ND                |       |
| 21 1,1-Dichloroethene         | 96  |           | 5.669         |               |    |          |                 | ND                |       |
| 22 Acetone                    | 43  |           | 5.867         |               |    |          |                 | ND                |       |
| 23 Carbon disulfide           | 76  | 6.027     | 6.027         | 0.000         | 48 | 611      |                 | 0.008722          | 7M    |
| 24 Isopropyl alcohol          | 45  |           | 6.102         |               |    |          |                 | ND                | U     |
| 25 3-Chloro-1-propene         | 41  |           | 6.322         |               |    |          |                 | ND                | U     |
| 26 Acetonitrile               | 41  |           | 6.434         |               |    |          |                 | ND                |       |
| 27 Methylene Chloride         | 49  | 6.578     | 6.578         | 0.010         | 18 | 678      |                 | 0.0279            | 7M    |
| 28 2-Methyl-2-propanol        | 59  |           | 6.782         |               |    |          |                 | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.948         |               |    |          |                 | ND                |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.964         |               |    |          |                 | ND                |       |
| 32 Acrylonitrile              | 53  |           | 7.092         |               |    |          |                 | ND                |       |
| 33 Hexane                     | 57  |           | 7.301         |               |    |          |                 | ND                |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.739         |               |    |          |                 | ND                |       |
| 35 Vinyl acetate              | 43  |           | 7.803         |               |    |          |                 | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.)   | Dlt RT (min.) | Q  | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|-----------------|---------------|----|----------|-----------------|-------------------|-------|
| 37 cis-1,2-Dichloroethene      | 96  |           | 8.745           |               |    |          |                 | ND                | U     |
| 38 2-Butanone (MEK)            | 72  |           | 8.804           |               |    |          |                 | ND                |       |
| 39 Ethyl acetate               | 88  |           | 8.841           |               |    |          |                 | ND                |       |
| * 40 Chlorobromomethane        | 128 | 9.168     | 9.173           | -0.005        | 81 | 306593   | 10.0            | 10.0              |       |
| 41 Tetrahydrofuran             | 42  |           | 9.226           |               |    |          |                 | ND                |       |
| 42 Chloroform                  | 83  |           | 9.291           |               |    |          |                 | ND                |       |
| 43 Cyclohexane                 | 84  |           | 9.547           |               |    |          |                 | ND                |       |
| 44 1,1,1-Trichloroethane       | 97  |           | 9.564           |               |    |          |                 | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           | 9.665           |               |    |          |                 | ND                |       |
| 45 Carbon tetrachloride        | 117 |           | 9.799           |               |    |          |                 | ND                |       |
| 46 Isooctane                   | 57  |           | 10.216          |               |    |          |                 | ND                |       |
| 47 Benzene                     | 78  |           | 10.238          |               |    |          |                 | ND                | U     |
| 48 1,2-Dichloroethane          | 62  |           | 10.403          |               |    |          |                 | ND                |       |
| 49 n-Heptane                   | 43  |           | 10.585          |               |    |          |                 | ND                |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.040    | 11.040          | 0.000         | 95 | 1398299  | 10.0            | 10.0              |       |
| 52 n-Butanol                   | 56  |           | 11.473          |               |    |          |                 | ND                |       |
| 53 Trichloroethene             | 95  |           | 11.505          |               |    |          |                 | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.046          |               |    |          |                 | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.228          |               |    |          |                 | ND                |       |
| A 51 GRO                       | 1   | 12.270    | (4.434-20.107)  |               | 0  | 765175   |                 | 0                 |       |
| 57 Dibromomethane              | 174 | 12.292    | 12.292          | 0.000         | 11 | 625      |                 | 0.0149            |       |
| 56 1,4-Dioxane                 | 88  |           | 12.297          |               |    |          |                 | ND                |       |
| 58 Dichlorobromomethane        | 83  |           | 12.581          |               |    |          |                 | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.496          |               |    |          |                 | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.811          |               |    |          |                 | ND                |       |
| A 63 Toluene Range             | 92  | 14.084    | (14.044-14.124) |               | 0  | 34812    |                 | NC                |       |
| 65 Toluene                     | 92  |           | 14.084          |               |    |          |                 | ND                | U     |
| A 62 C8 Range                  | 1   | 14.176    | (14.131-14.220) |               | 0  | 4067     |                 | NC                |       |
| 64 n-Octane                    | 43  |           | 14.170          |               |    |          |                 | ND                |       |
| A 59 TVOC as Toluene           | 92  | 14.172    | (3.086-25.259)  |               | 0  | 911131   |                 | 0                 |       |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.678          |               |    |          |                 | ND                |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.047          |               |    |          |                 | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 15.165          |               |    |          |                 | ND                | U     |
| 69 2-Hexanone                  | 43  |           | 15.528          |               |    |          |                 | ND                | U     |
| 71 Chlorodibromomethane        | 129 |           | 15.807          |               |    |          |                 | ND                | U     |
| 72 Ethylene Dibromide          | 107 |           | 16.069          |               |    |          |                 | ND                | U     |
| * 74 Chlorobenzene-d5          | 117 | 16.984    | 16.984          | 0.000         | 88 | 1131514  | 10.0            | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.042          |               |    |          |                 | ND                | U     |
| 76 Ethylbenzene                | 91  |           | 17.208          |               |    |          |                 | ND                | U     |
| 77 n-Nonane                    | 57  |           | 17.369          |               |    |          |                 | ND                |       |
| 78 m-Xylene & p-Xylene         | 106 |           | 17.465          |               |    |          |                 | ND                |       |
| 79 o-Xylene                    | 106 |           | 18.316          |               |    |          |                 | ND                |       |
| 80 Styrene                     | 104 |           | 18.369          |               |    |          |                 | ND                |       |
| 81 Bromoform                   | 173 |           | 18.808          |               |    |          |                 | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.065          |               |    |          |                 | ND                | U     |
| * 83 4-Bromofluorobenzene      | 95  | 19.466    | 19.466          | 0.000         | 92 | 715771   | 10.0            | 10.0              |       |
| S 73 Xylenes, Total            | 106 |           | 19.600          |               |    |          |                 | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.787          |               |    |          |                 | ND                |       |
| 85 N-Propylbenzene             | 91  |           | 19.867          |               |    |          |                 | ND                | U     |
| 86 1,2,3-Trichloropropane      | 75  |           | 19.883          |               |    |          |                 | ND                |       |
| 89 2-Chlorotoluene             | 91  |           | 20.070          |               |    |          |                 | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.076          |               |    |          |                 | ND                | Ua    |

| Compound                   | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ppb v/v | OnCol Amt ppb v/v | Flags |
|----------------------------|-----|-----------|---------------|---------------|---|----------|-----------------|-------------------|-------|
| 87 n-Decane                | 57  |           | 20.097        |               |   |          |                 | ND                |       |
| 90 1,3,5-Trimethylbenzene  | 105 |           | 20.193        |               |   |          |                 | ND                | U     |
| 91 Alpha Methyl Styrene    | 118 |           | 20.584        |               |   |          |                 | ND                | U     |
| 92 tert-Butylbenzene       | 119 |           | 20.712        |               |   |          |                 | ND                | U     |
| 93 1,2,4-Trimethylbenzene  | 105 |           | 20.814        |               |   |          |                 | ND                | U     |
| 94 sec-Butylbenzene        | 105 |           | 21.060        |               |   |          |                 | ND                | U     |
| 95 4-Isopropyltoluene      | 119 |           | 21.279        |               |   |          |                 | ND                | U     |
| 96 1,3-Dichlorobenzene     | 146 |           | 21.290        |               |   |          |                 | ND                | U     |
| 97 1,4-Dichlorobenzene     | 146 |           | 21.435        |               |   |          |                 | ND                | U     |
| 98 Benzyl chloride         | 91  |           | 21.638        |               |   |          |                 | ND                | U     |
| 100 n-Butylbenzene         | 91  |           | 21.868        |               |   |          |                 | ND                | U     |
| 99 Undecane                | 57  |           | 21.921        |               |   |          |                 | ND                | U     |
| 101 1,2-Dichlorobenzene    | 146 | 21.969    | 21.964        | 0.005         | 3 | 919      |                 | 0.0136            |       |
| 102 Dodecane               | 57  |           | 23.457        |               |   |          |                 | ND                | U     |
| 103 1,2,4-Trichlorobenzene | 180 | 24.355    | 24.355        | 0.000         | 1 | 1455     |                 | 0.0363            |       |
| 104 Hexachlorobutadiene    | 225 |           | 24.548        |               |   |          |                 | ND                | U     |
| 105 Naphthalene            | 128 | 24.805    | 24.799        | 0.006         | 5 | 3305     |                 | 0.0462            |       |
| 106 1,2,3-Trichlorobenzene | 180 |           | 25.249        |               |   |          |                 | ND                | U     |

### QC Flag Legend

#### Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D

Injection Date: 31-Oct-2018 15:37:30

Instrument ID: CHG.i

Operator ID: wrd

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

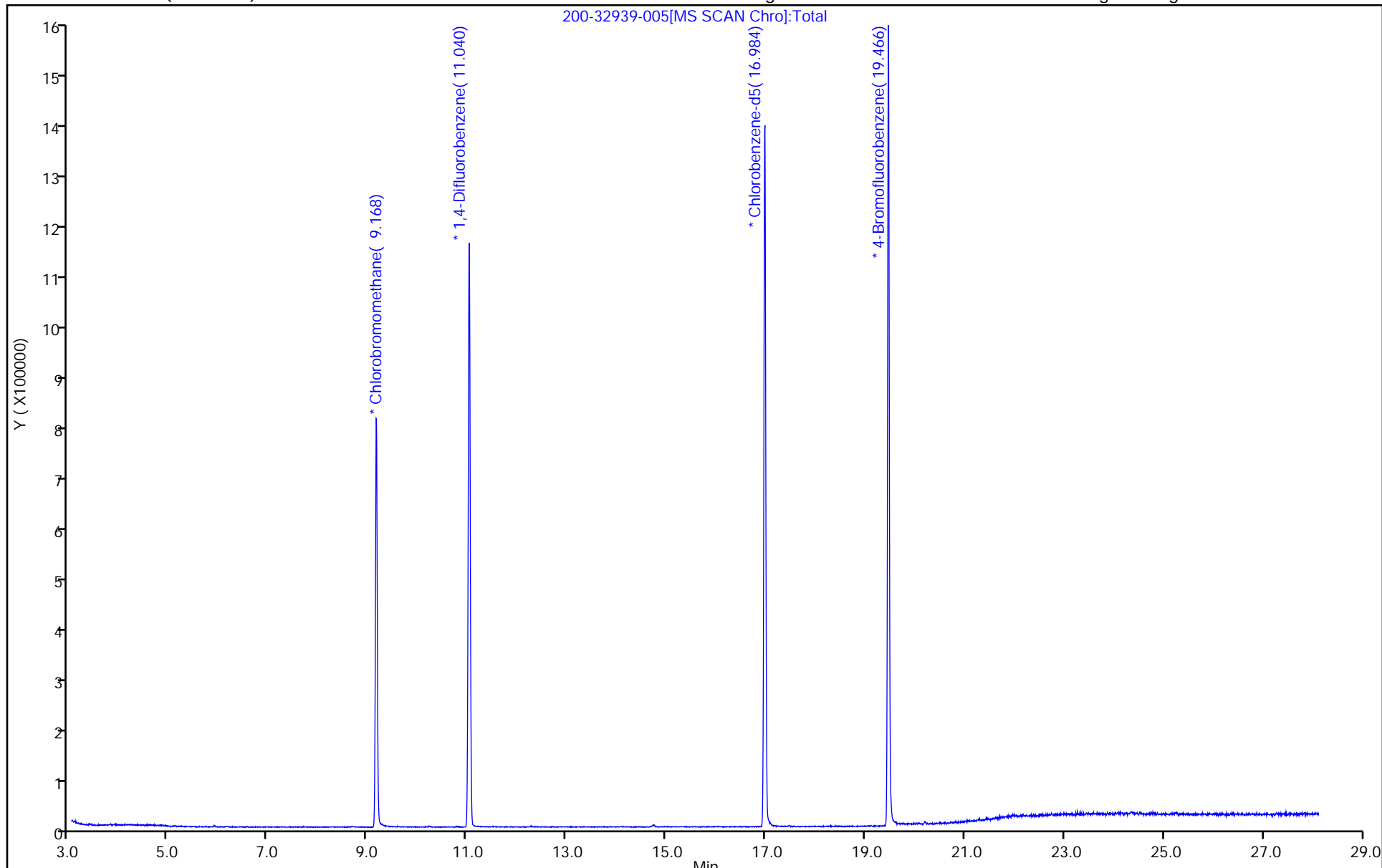
ALS Bottle#: 4

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



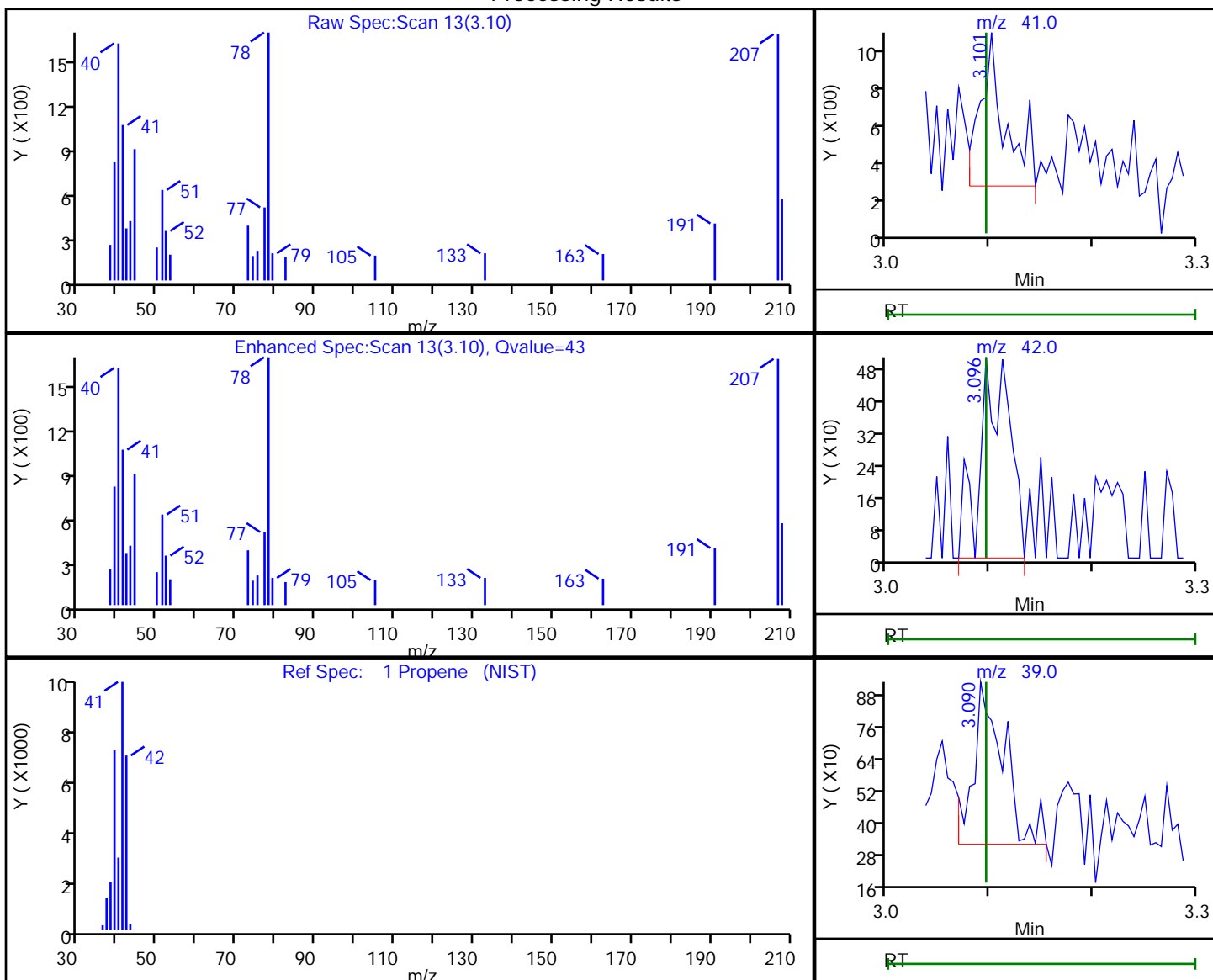


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

1 Propene, CAS: 115-07-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.10 | 41.00 | 1296     | 0.071166 |
| 3.10 | 42.00 | 1015     |          |
| 3.09 | 39.00 | 1259     |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:35

Audit Action: Marked Compound Undetected

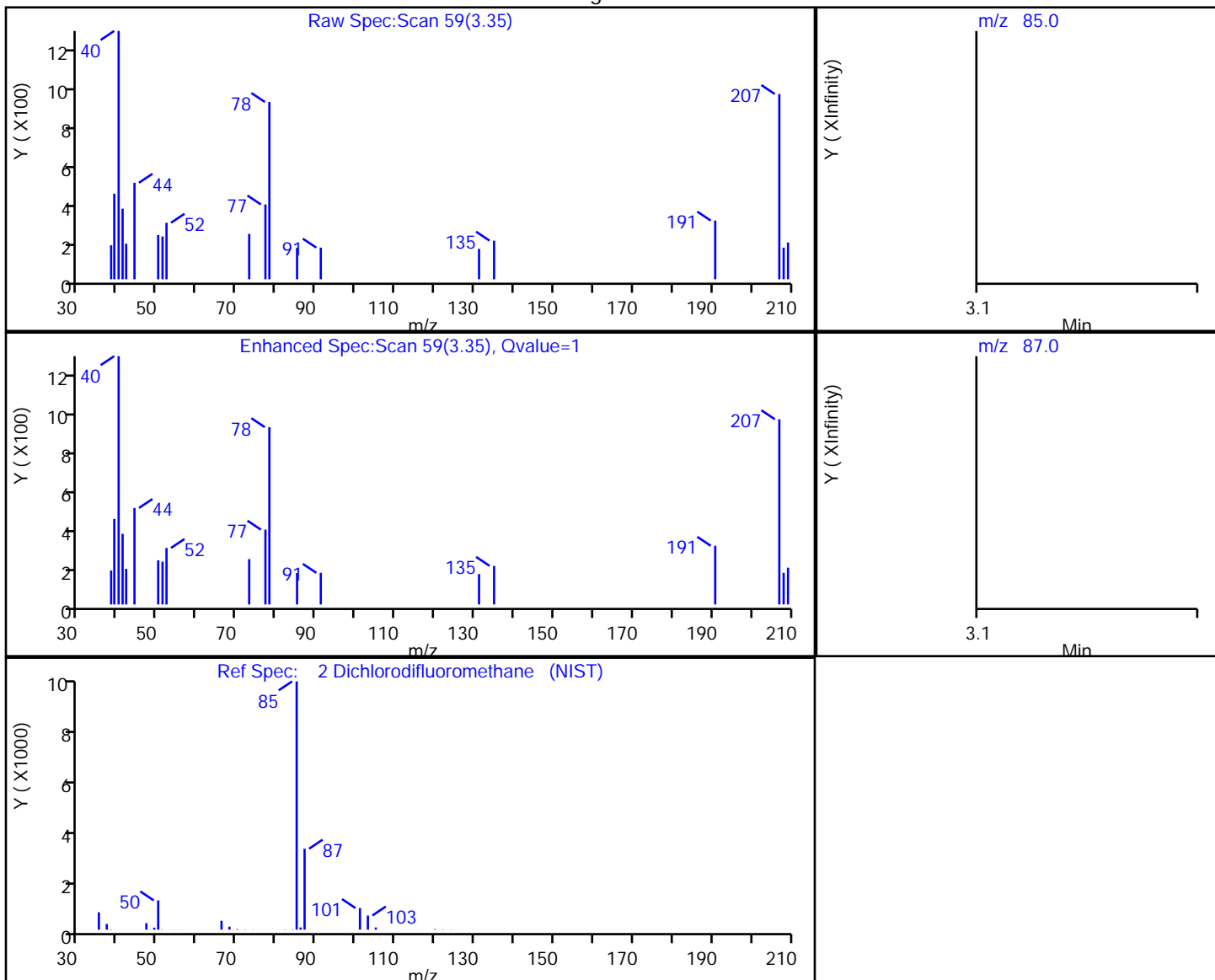
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.35 | 85.00 | 51       | 0.000482 |
| 3.15 | 87.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:39

Audit Action: Marked Compound Undetected

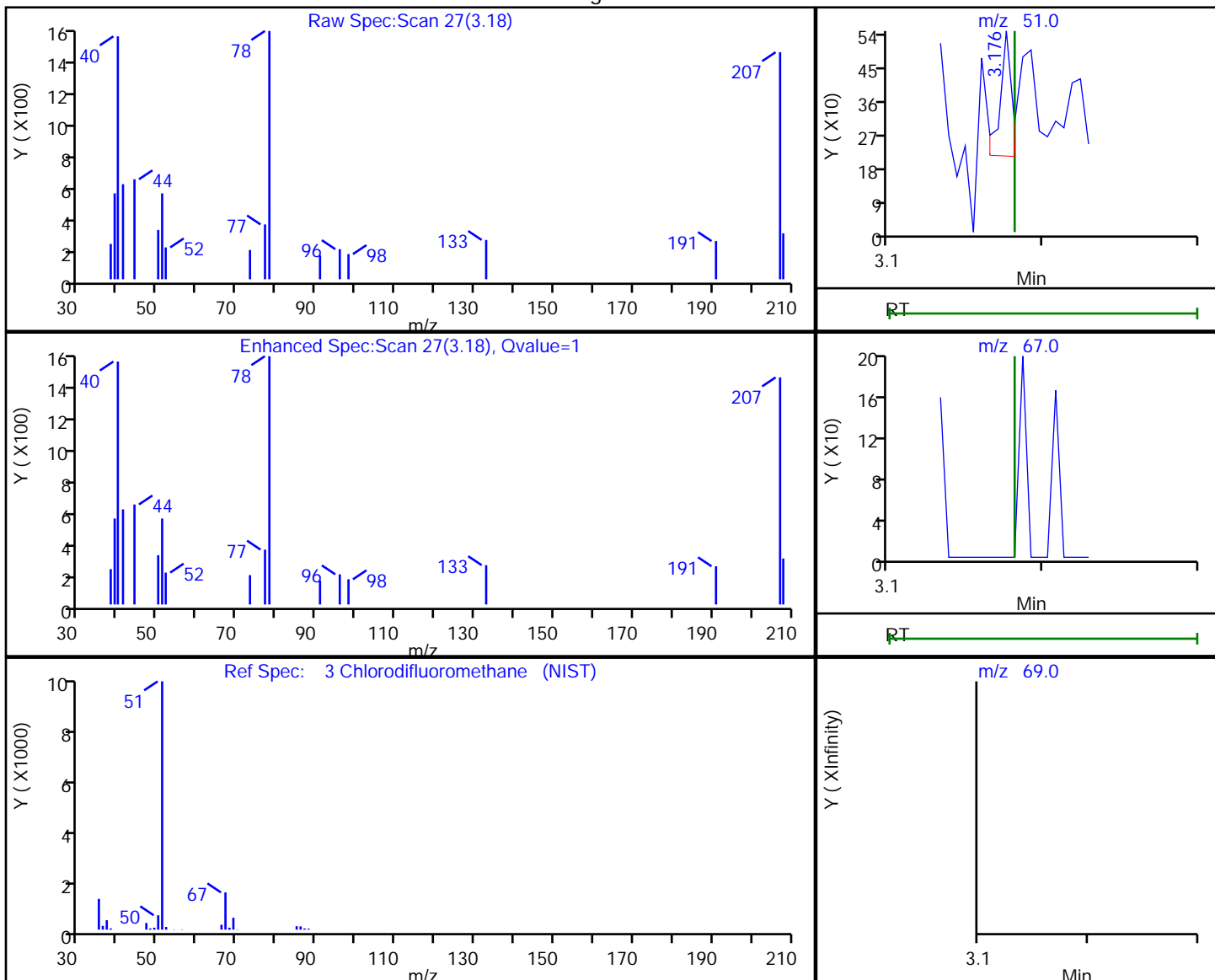
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.18 | 51.00 | 177      | 0.003892 |
| 3.18 | 67.00 | 0        |          |
| 3.18 | 69.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:40

Audit Action: Marked Compound Undetected

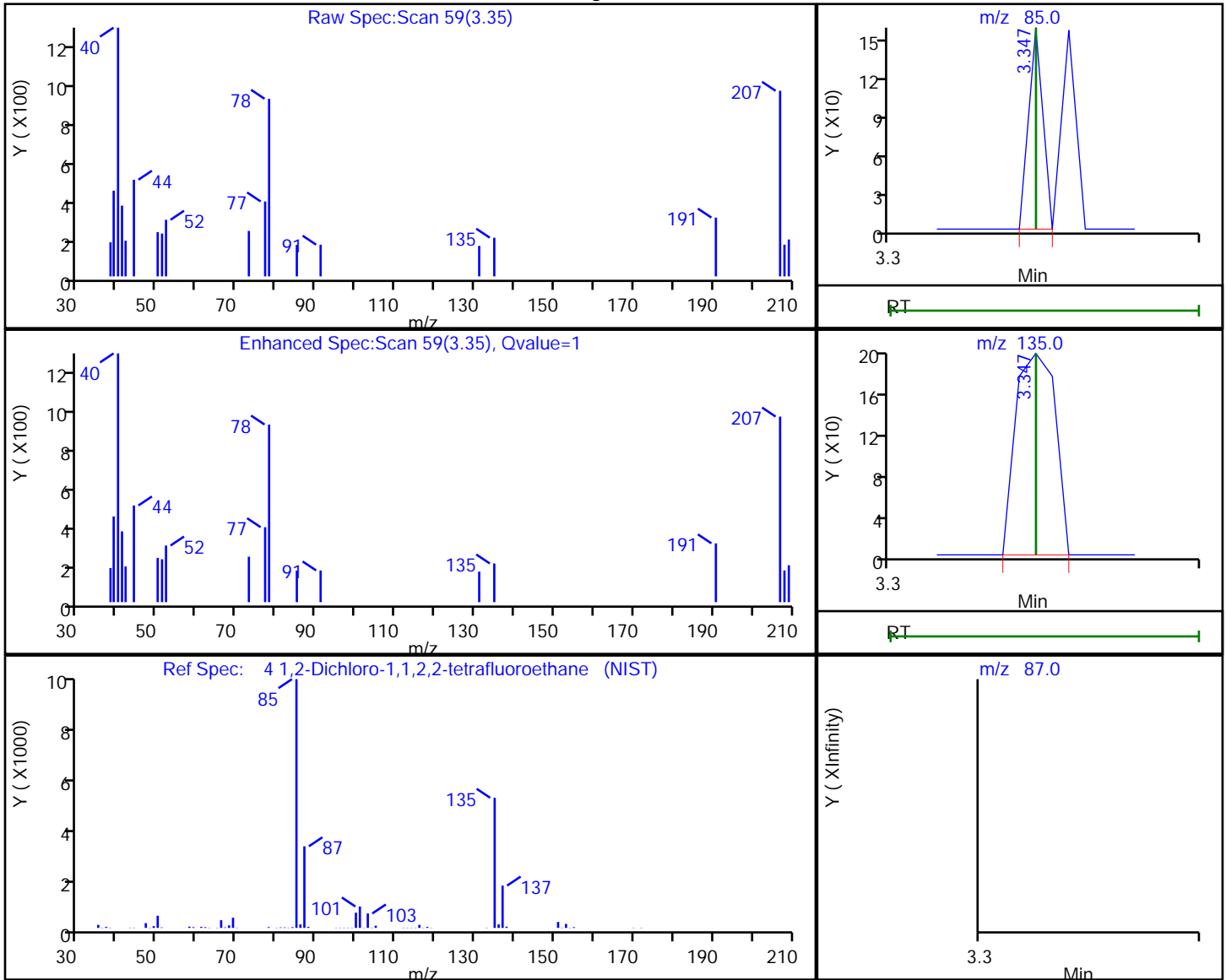
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector MS SCAN

4 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 3.35 | 85.00  | 51       | 0.000633 |
| 3.35 | 135.00 | 173      |          |
| 3.35 | 87.00  | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:41

Audit Action: Marked Compound Undetected

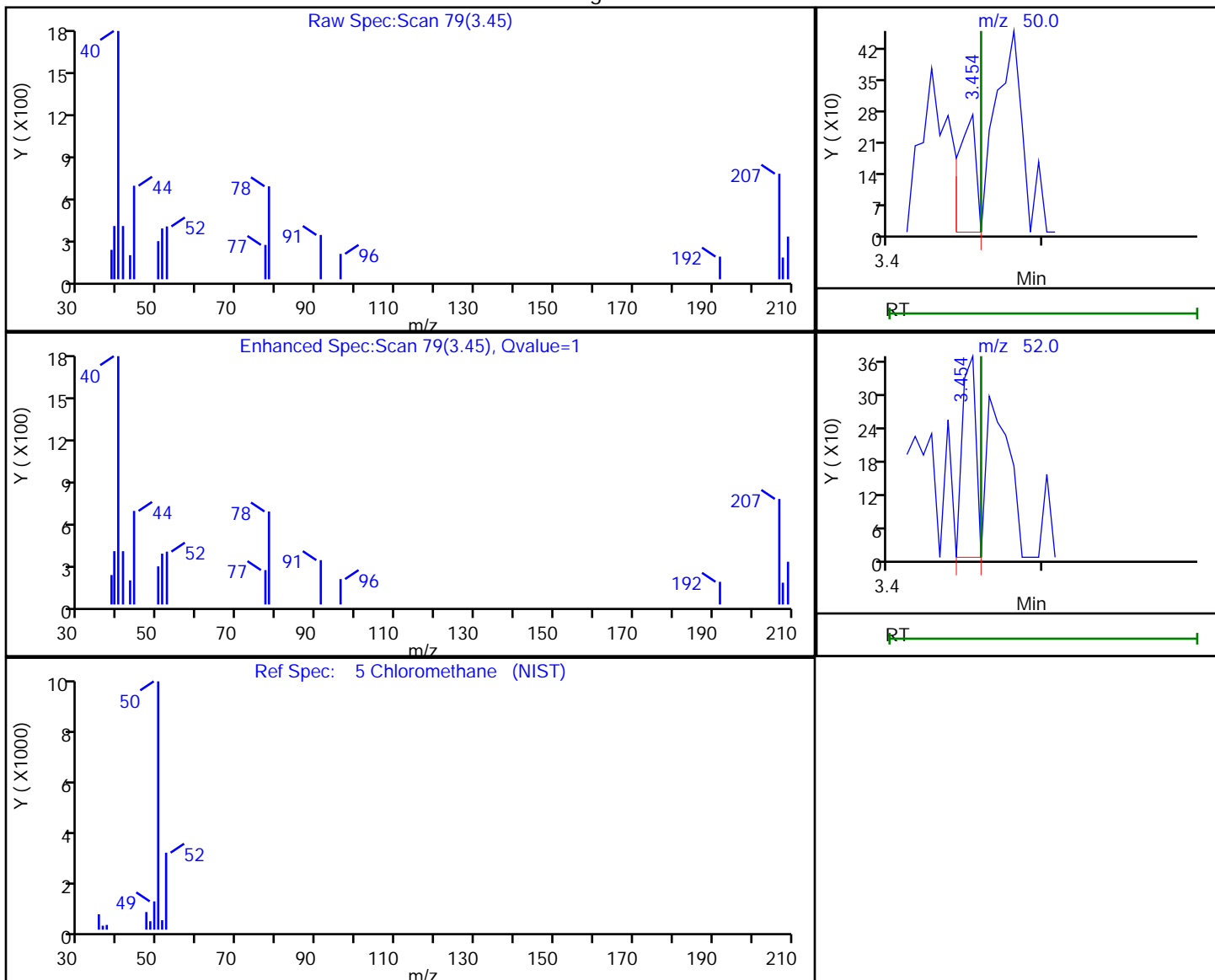
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.45 | 50.00 | 208      | 0.009846 |
| 3.45 | 52.00 | 222      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:43

Audit Action: Marked Compound Undetected

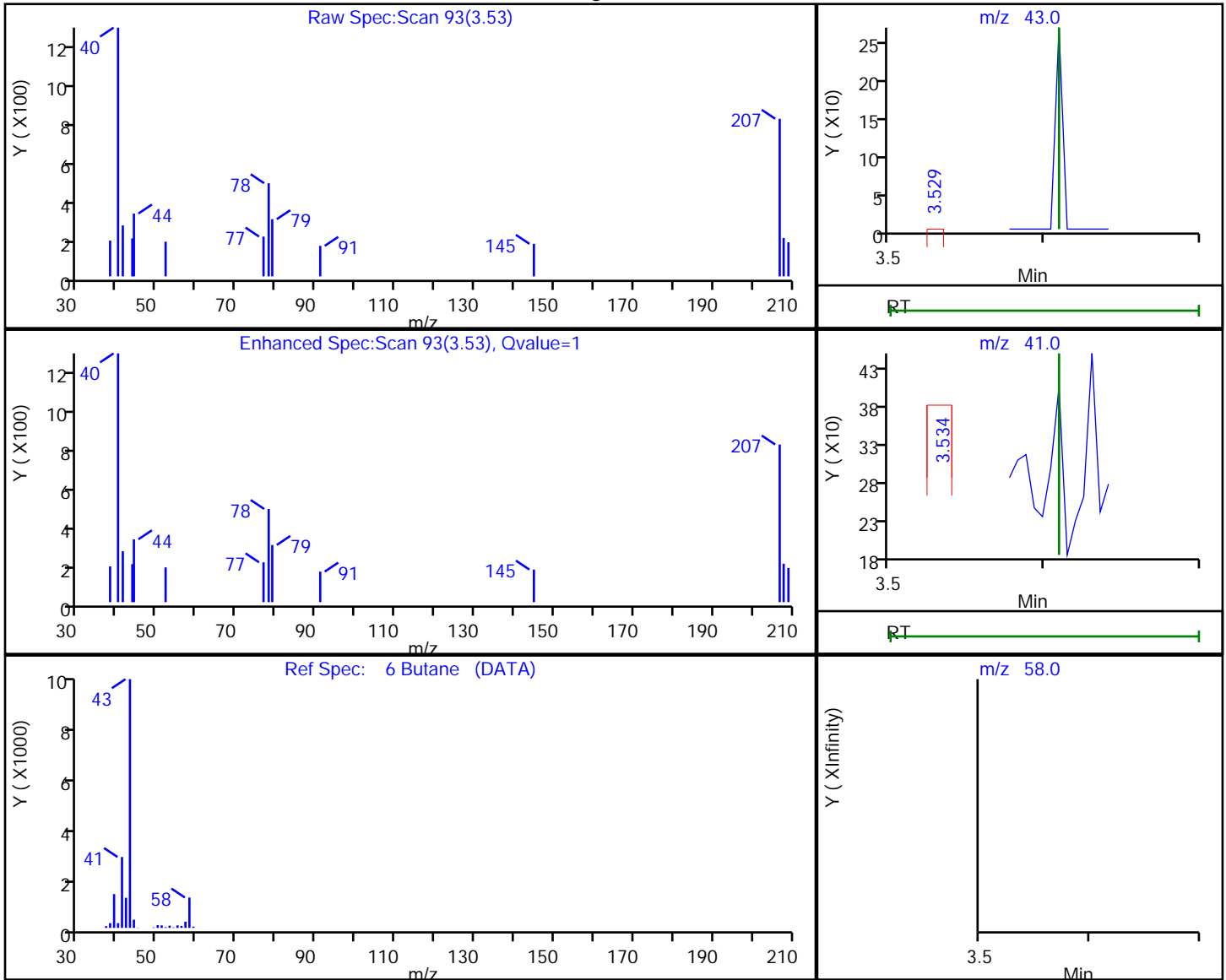
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.53 | 43.00 | 60       | 0.002135 |
| 3.53 | 41.00 | 241      |          |
| 3.61 | 58.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:48:44

Audit Action: Marked Compound Undetected

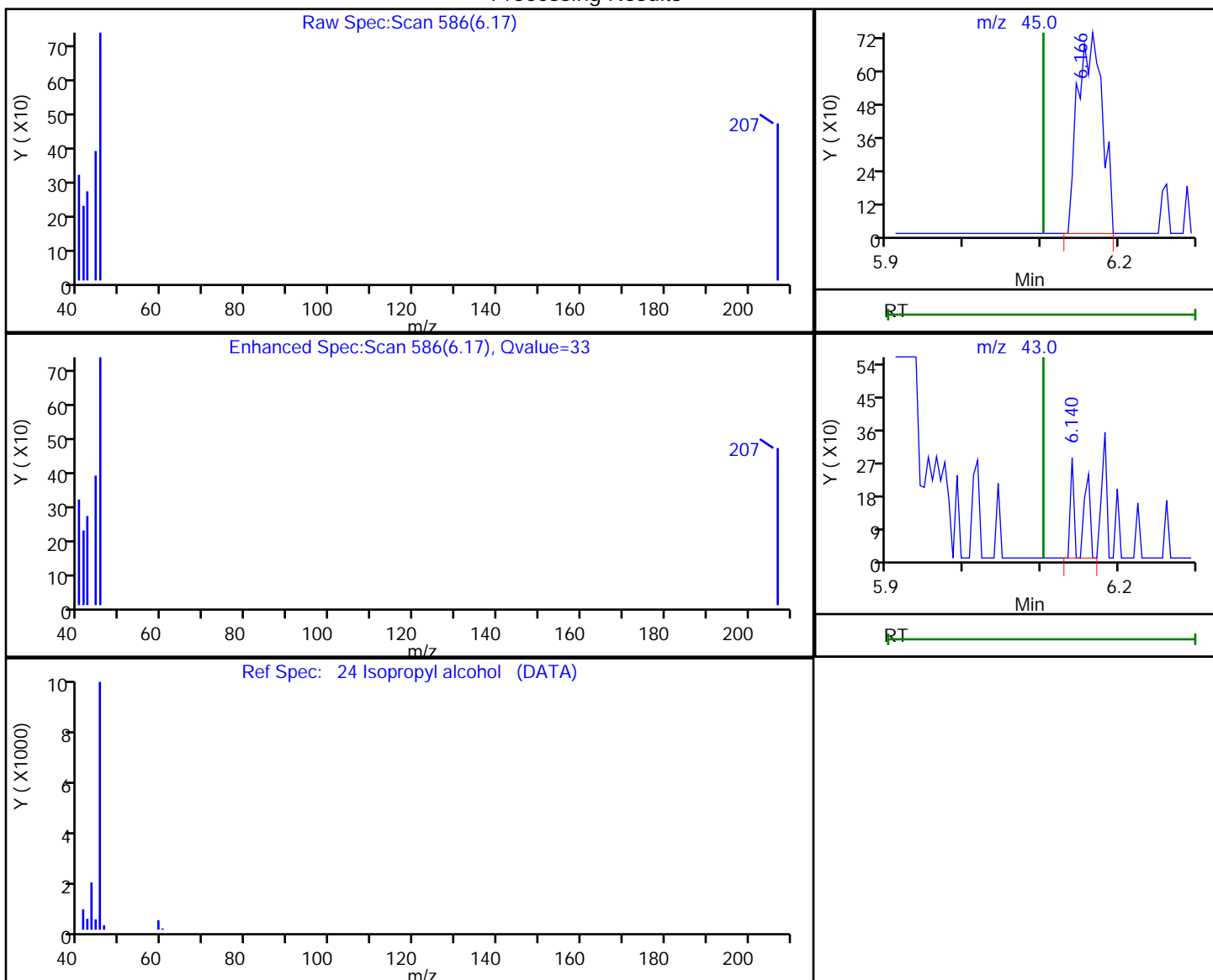
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.17 | 45.00 | 1618     | 0.065534 |
| 6.14 | 43.00 | 216      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:49:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

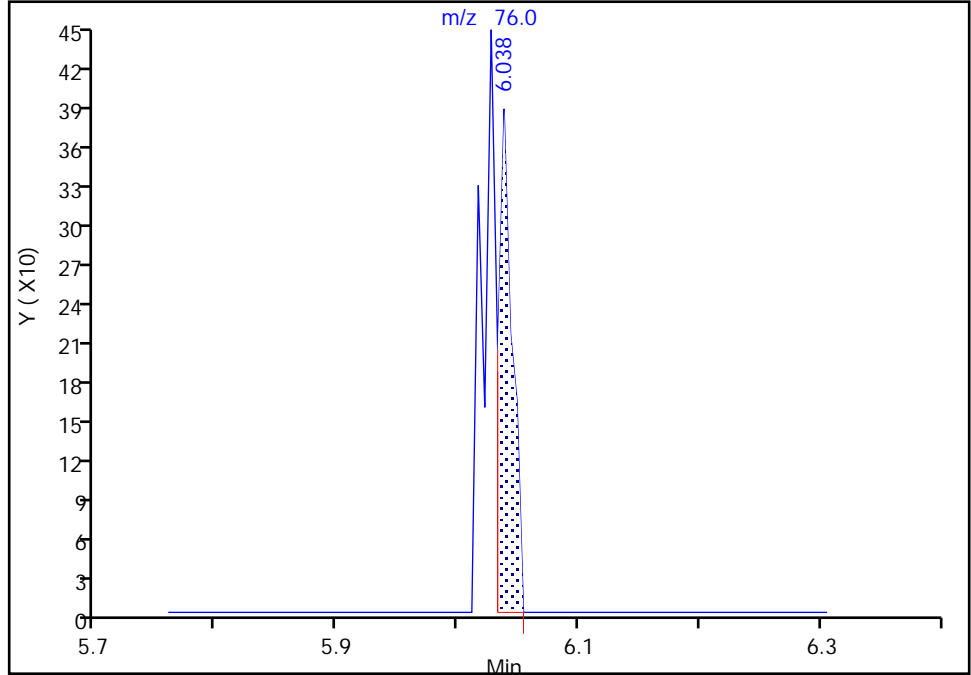
Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

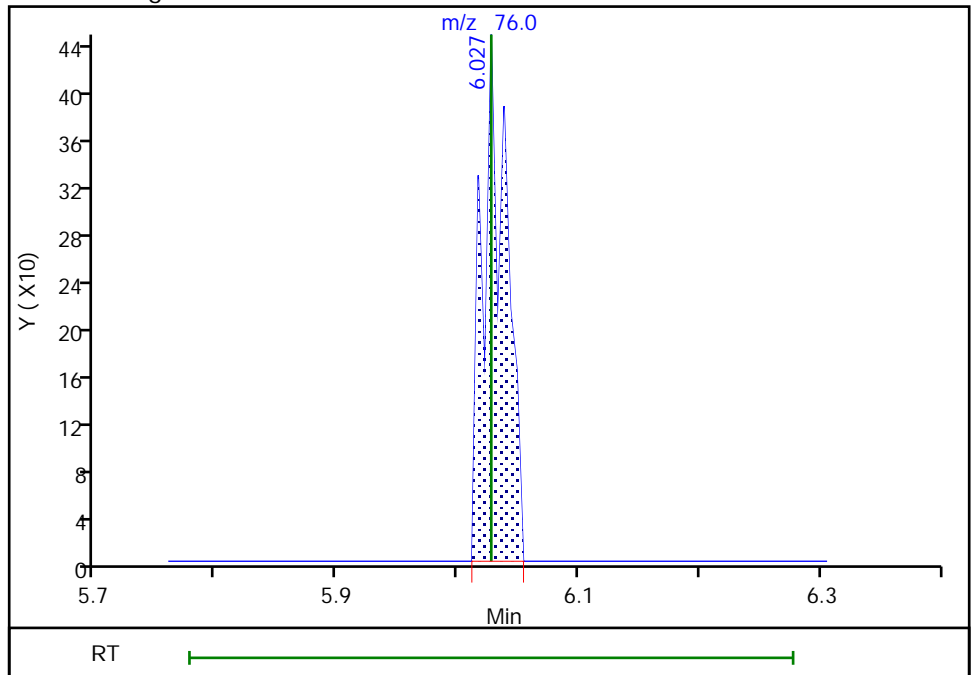
RT: 6.04  
Area: 311  
Amount: 0.004439  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.03  
Area: 611  
Amount: 0.008722  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 01-Nov-2018 09:49:07

Audit Action: Manually Integrated

Audit Reason: Assign Peak

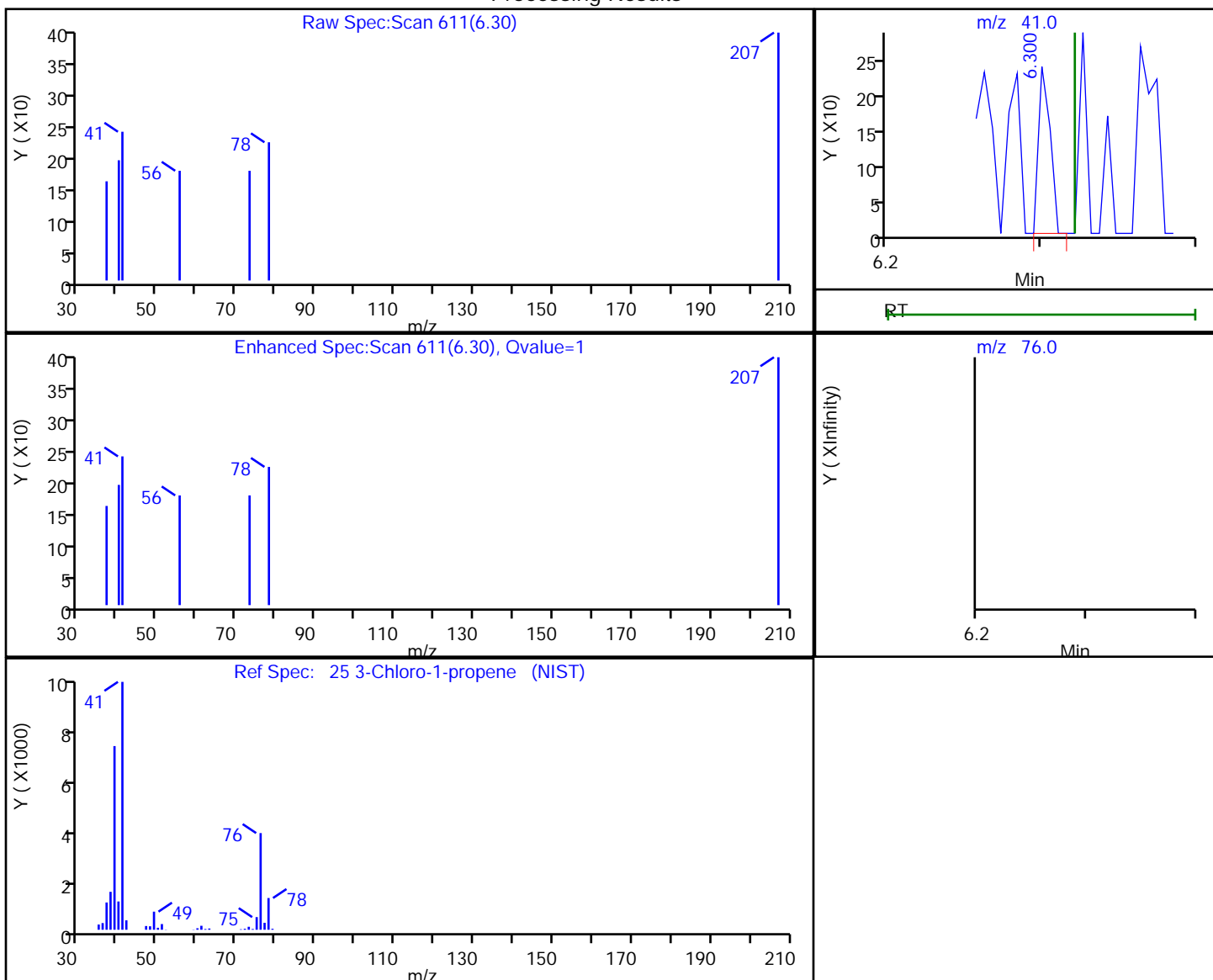


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.30 | 41.00 | 126      | 0.006120 |
| 6.32 | 76.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:49:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

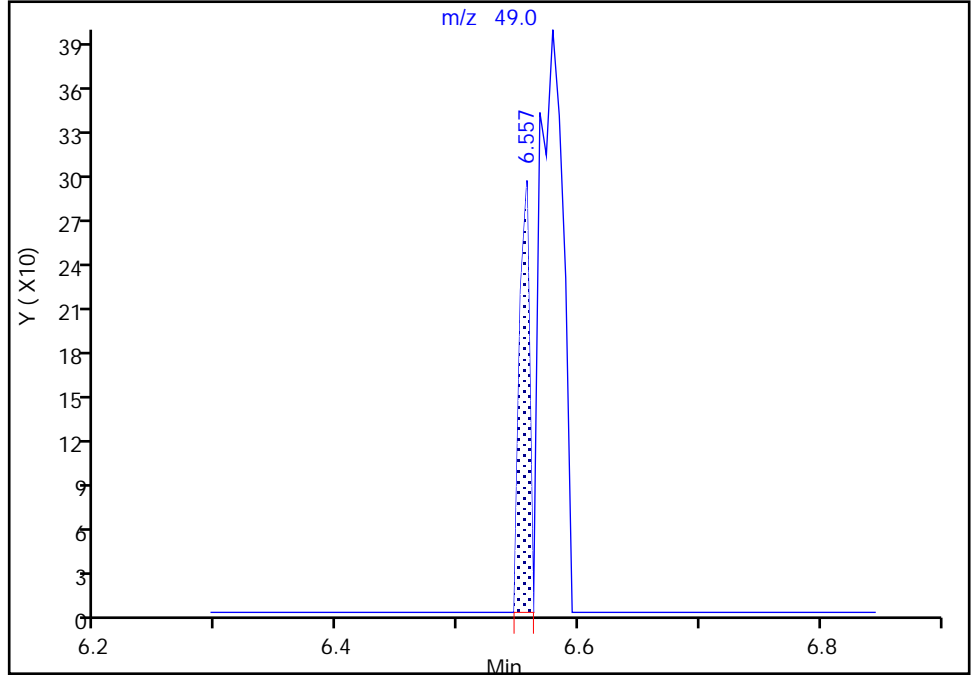
Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

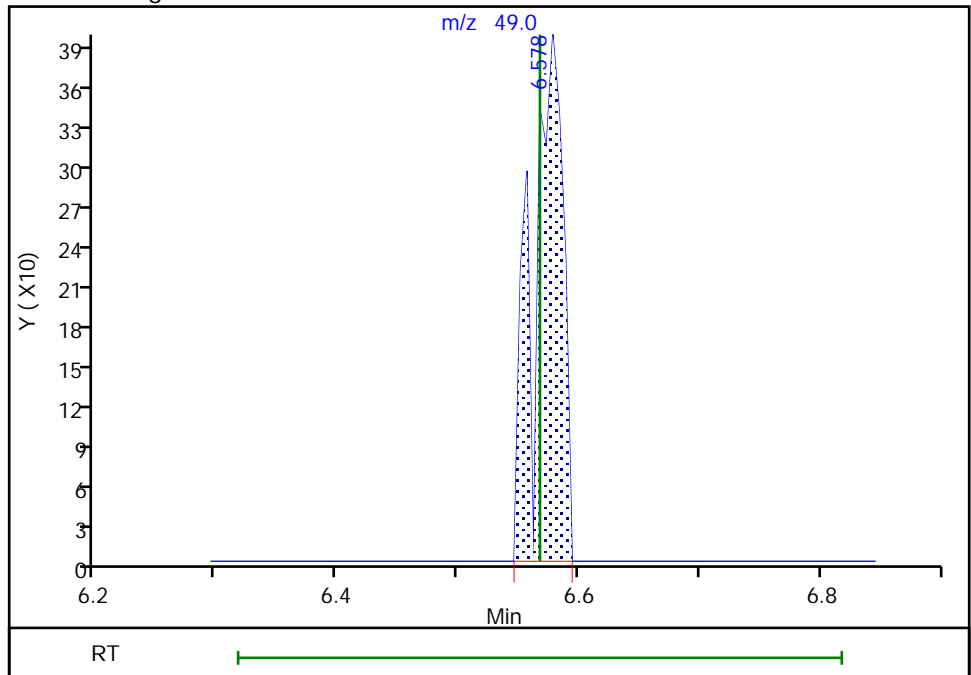
RT: 6.56  
Area: 164  
Amount: 0.006755  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.58  
Area: 678  
Amount: 0.027925  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 01-Nov-2018 09:49:27

Audit Action: Manually Integrated

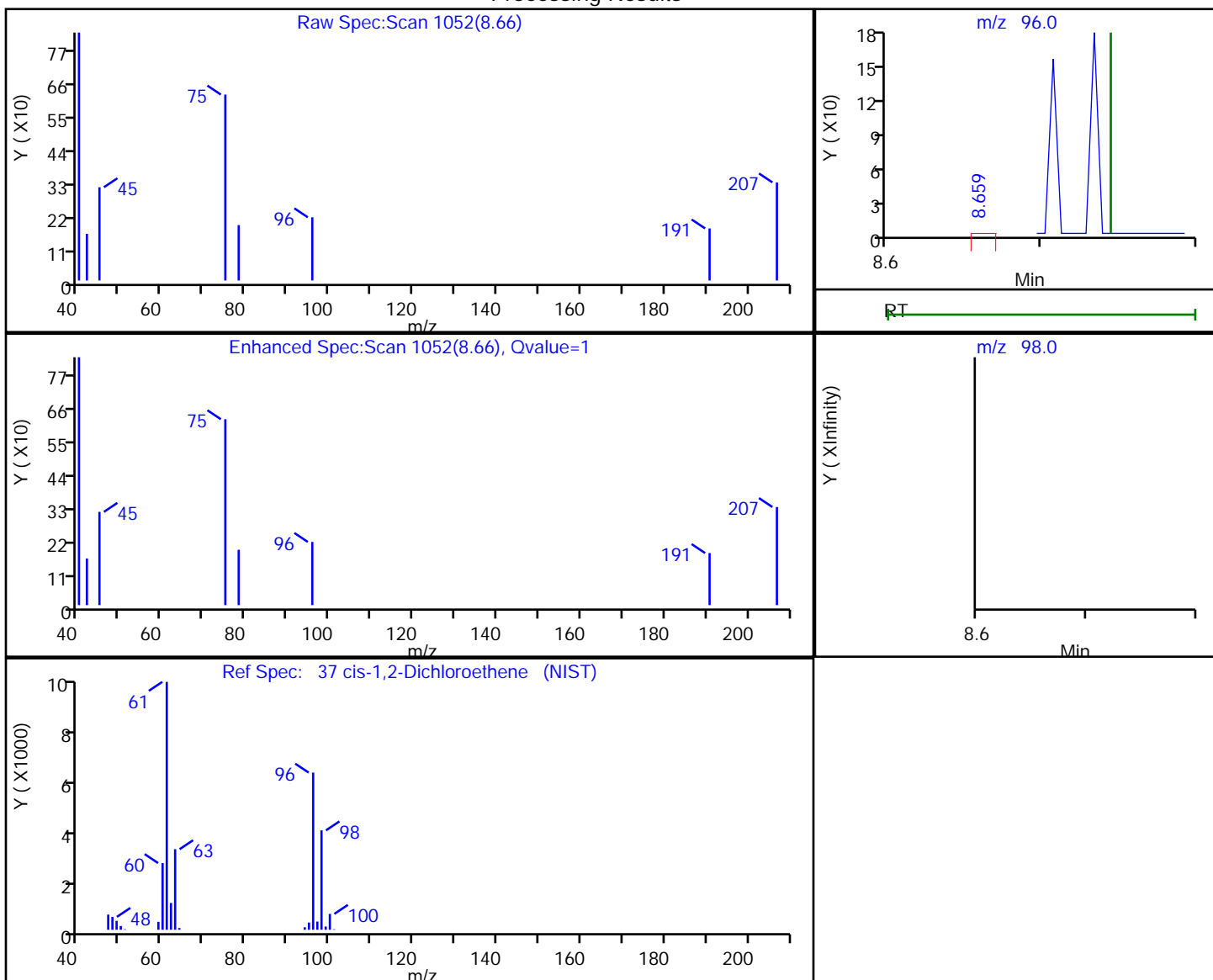
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 8.66 | 96.00 | 131      | 0.004921 |
| 8.75 | 98.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:49:47

Audit Action: Marked Compound Undetected

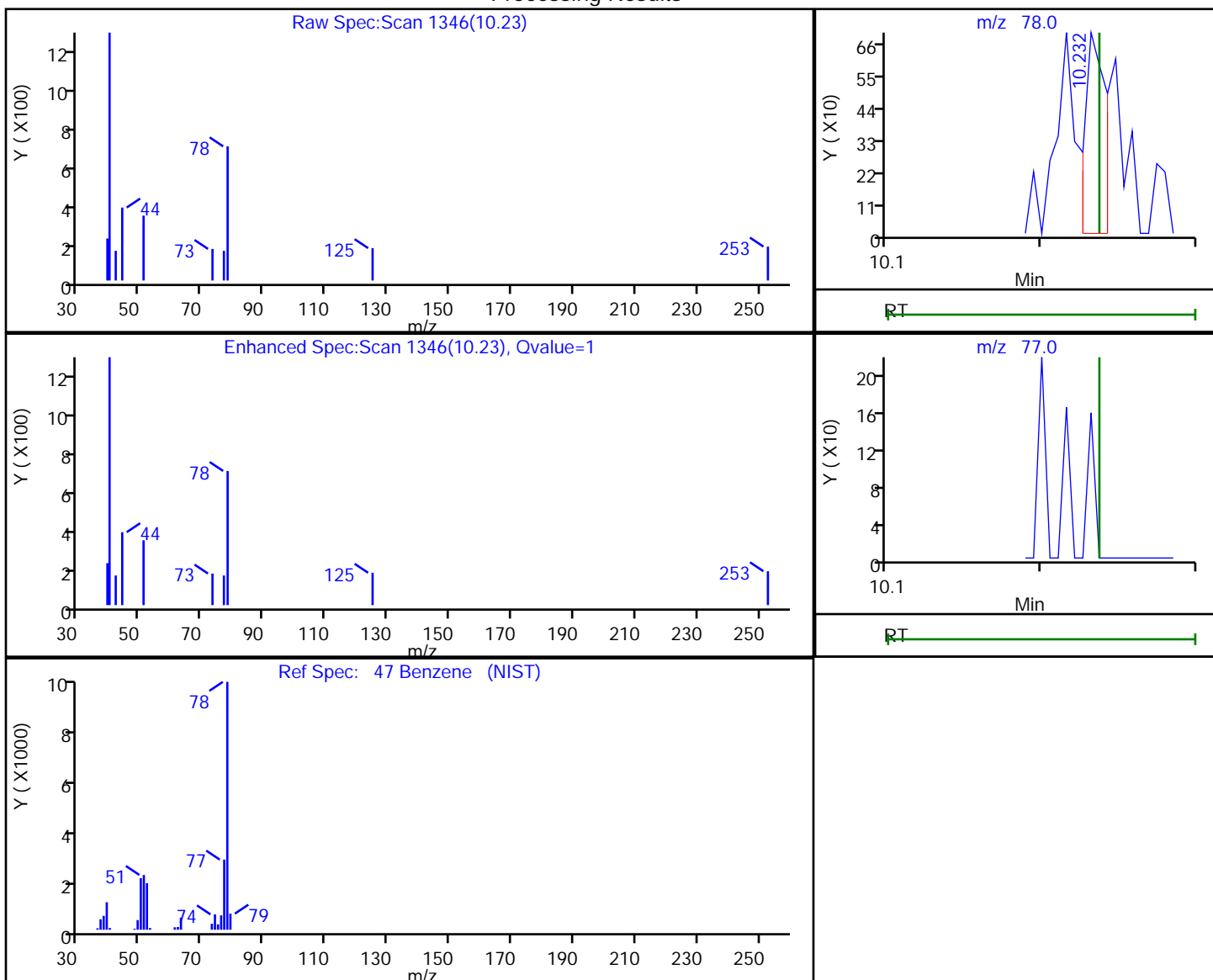
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.23 | 78.00 | 657      | 0.009030 |
| 10.24 | 77.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:02

Audit Action: Marked Compound Undetected

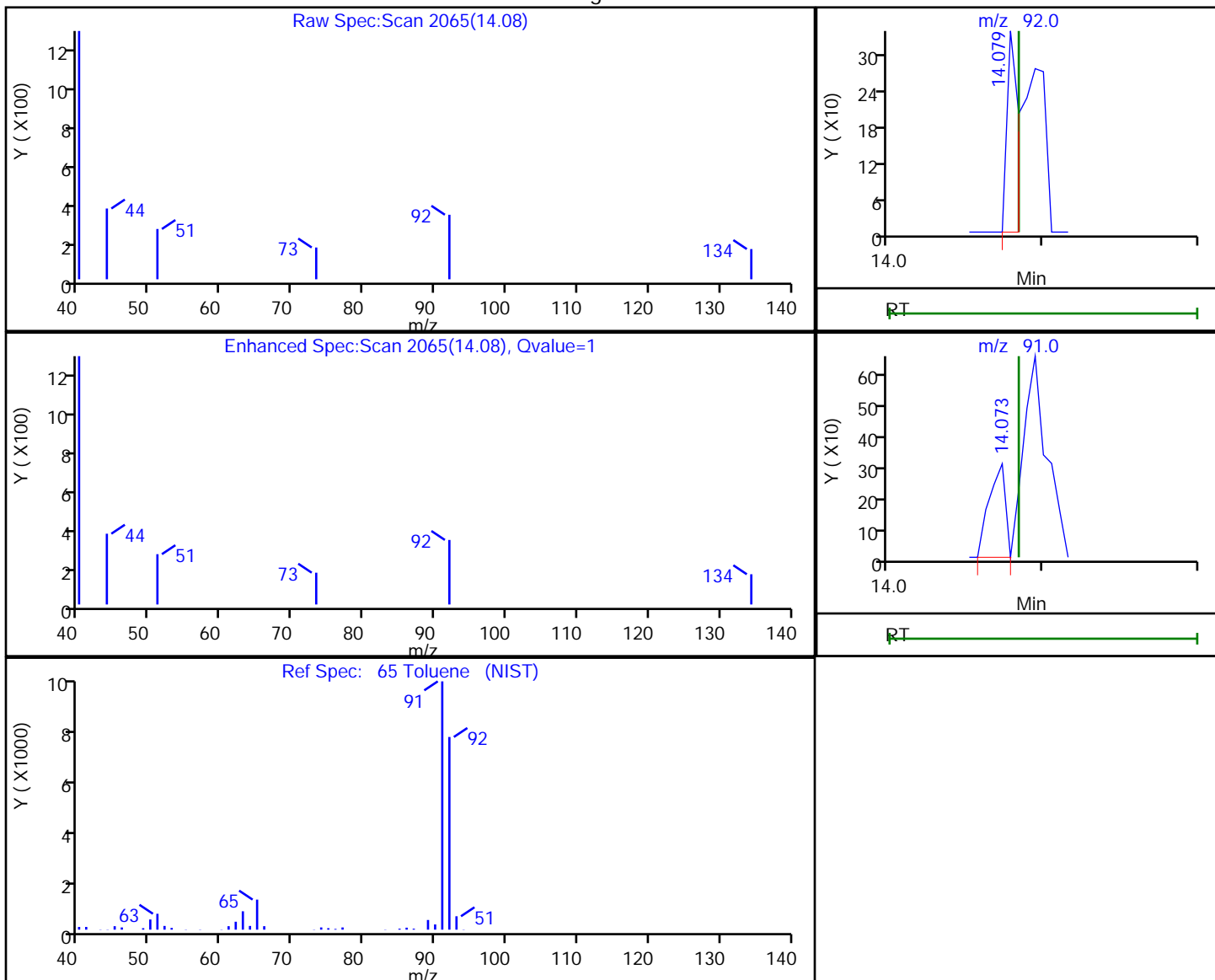
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

65 Toluene, CAS: 108-88-3

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 14.08 | 92.00 | 169      | 0.003371 |
| 14.07 | 91.00 | 225      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:25

Audit Action: Marked Compound Undetected

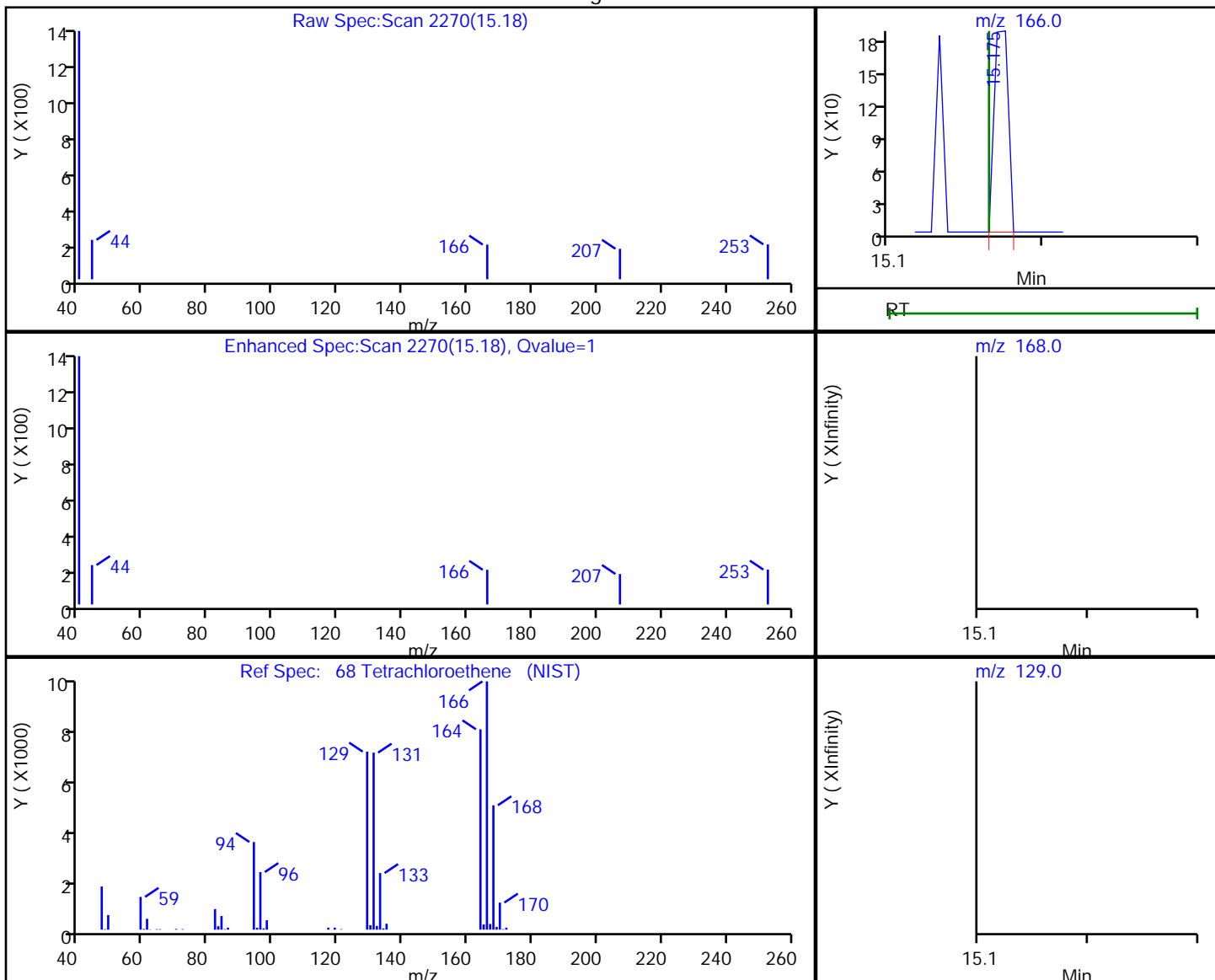
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

68 Tetrachloroethene, CAS: 127-18-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.18 | 166.00 | 117      | 0.002195 |
| 15.16 | 168.00 | 0        |          |
| 15.16 | 129.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:37

Audit Action: Marked Compound Undetected

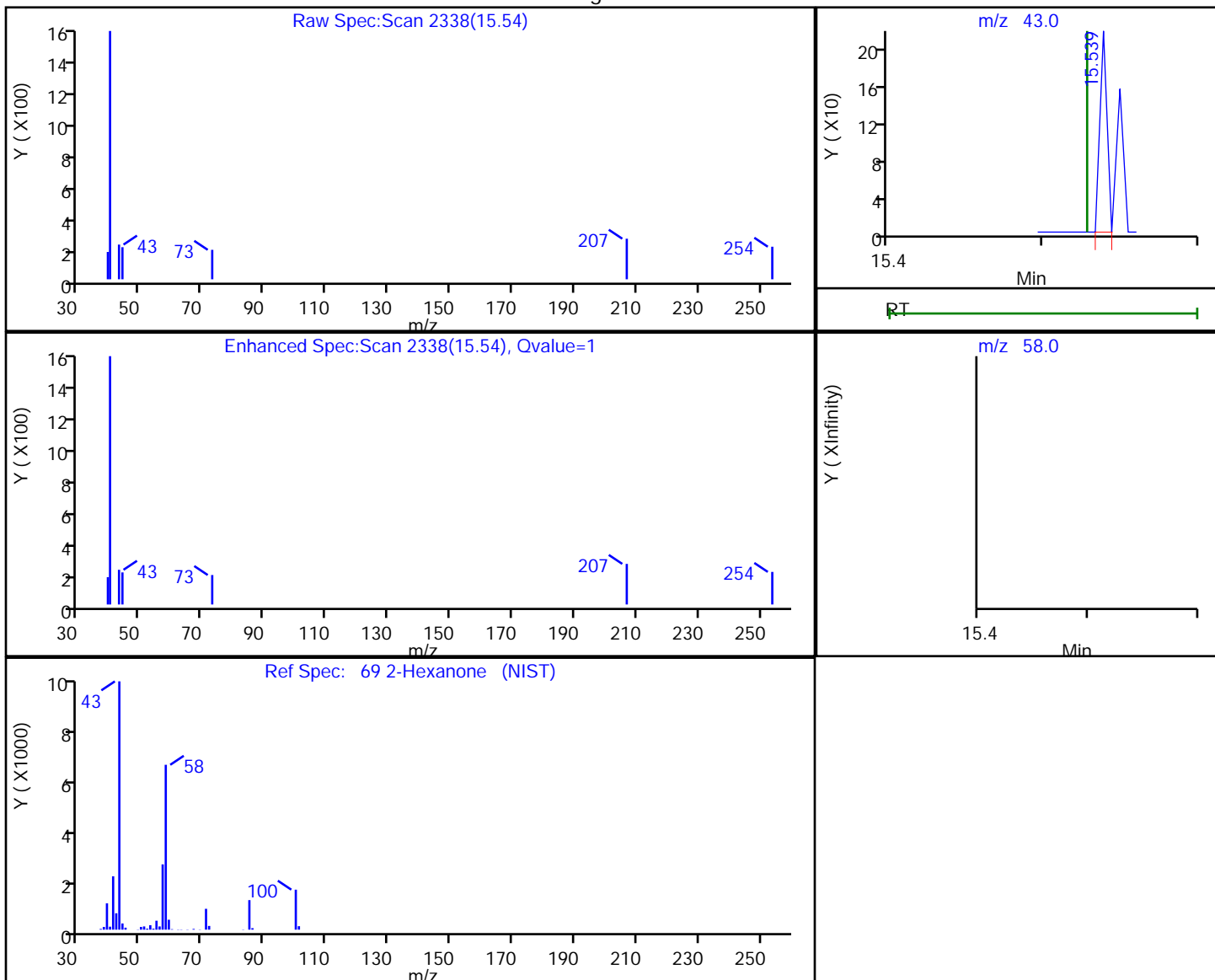
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

69 2-Hexanone, CAS: 591-78-6

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 15.54 | 43.00 | 68       | 0.001592 |
| 15.53 | 58.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:39

Audit Action: Marked Compound Undetected

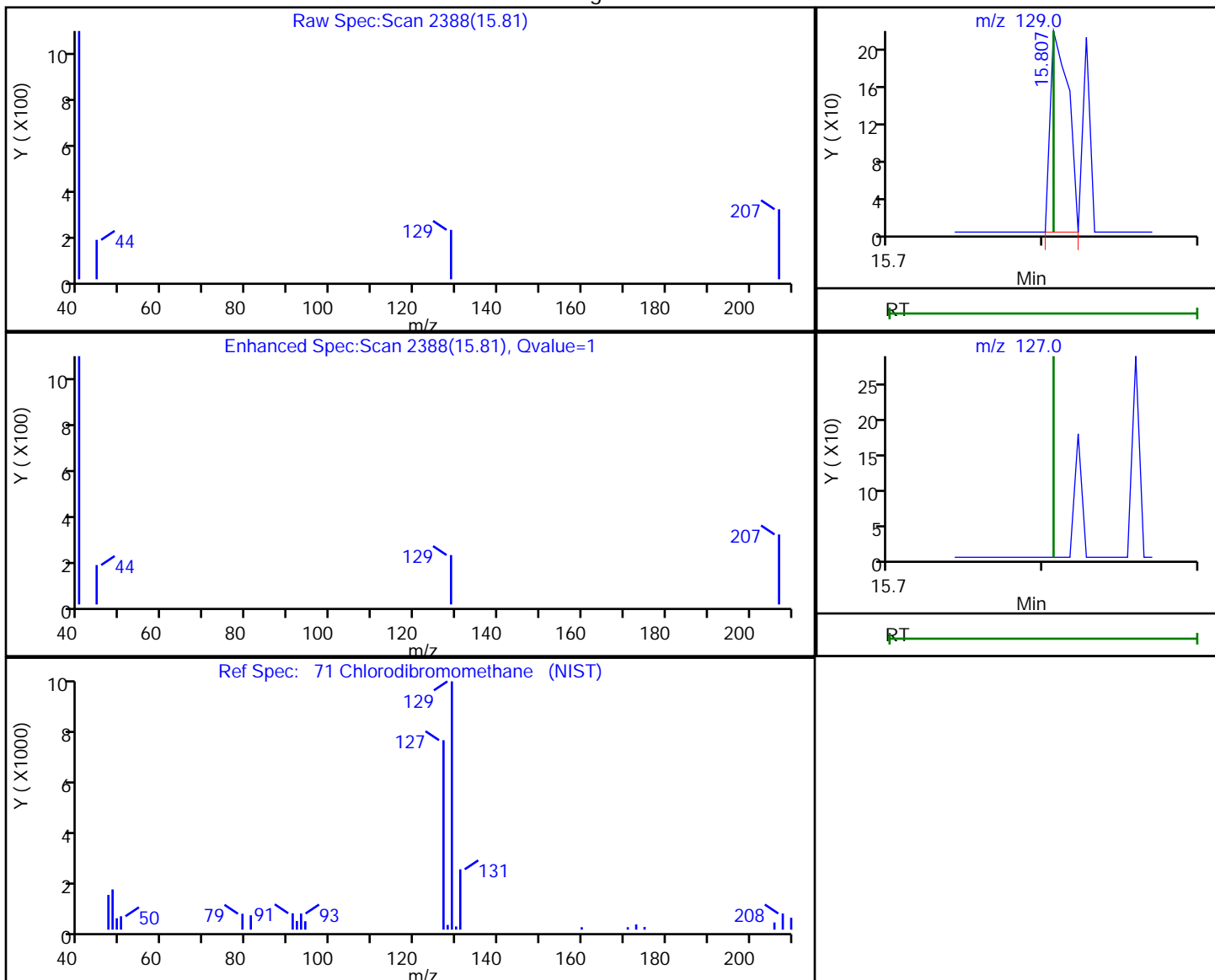
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

71 Chlorodibromomethane, CAS: 124-48-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 15.81 | 129.00 | 177      | 0.002465 |
| 15.81 | 127.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

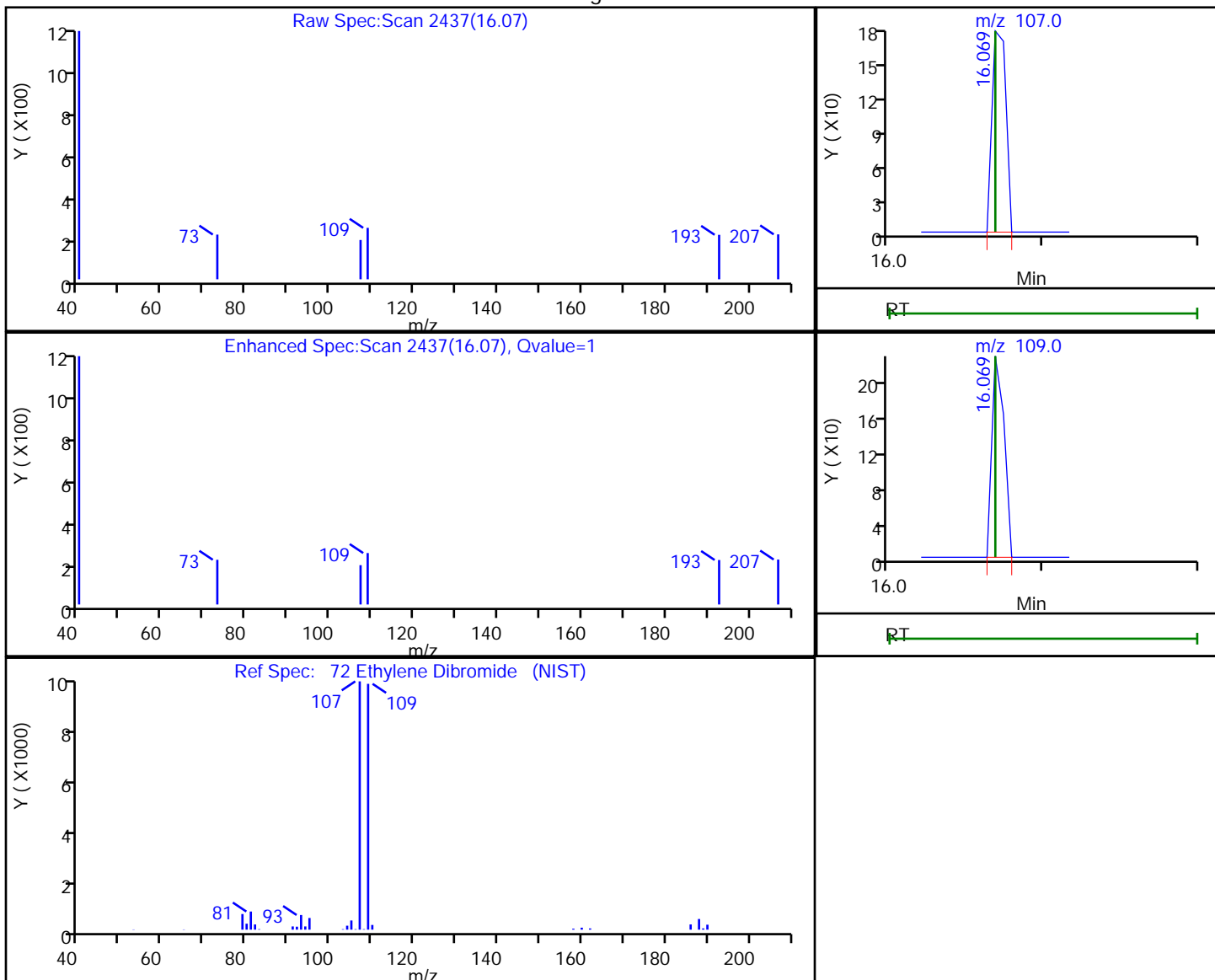


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

72 Ethylene Dibromide, CAS: 106-93-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 16.07 | 107.00 | 109      | 0.001995 |
| 16.07 | 109.00 | 126      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:44

Audit Action: Marked Compound Undetected

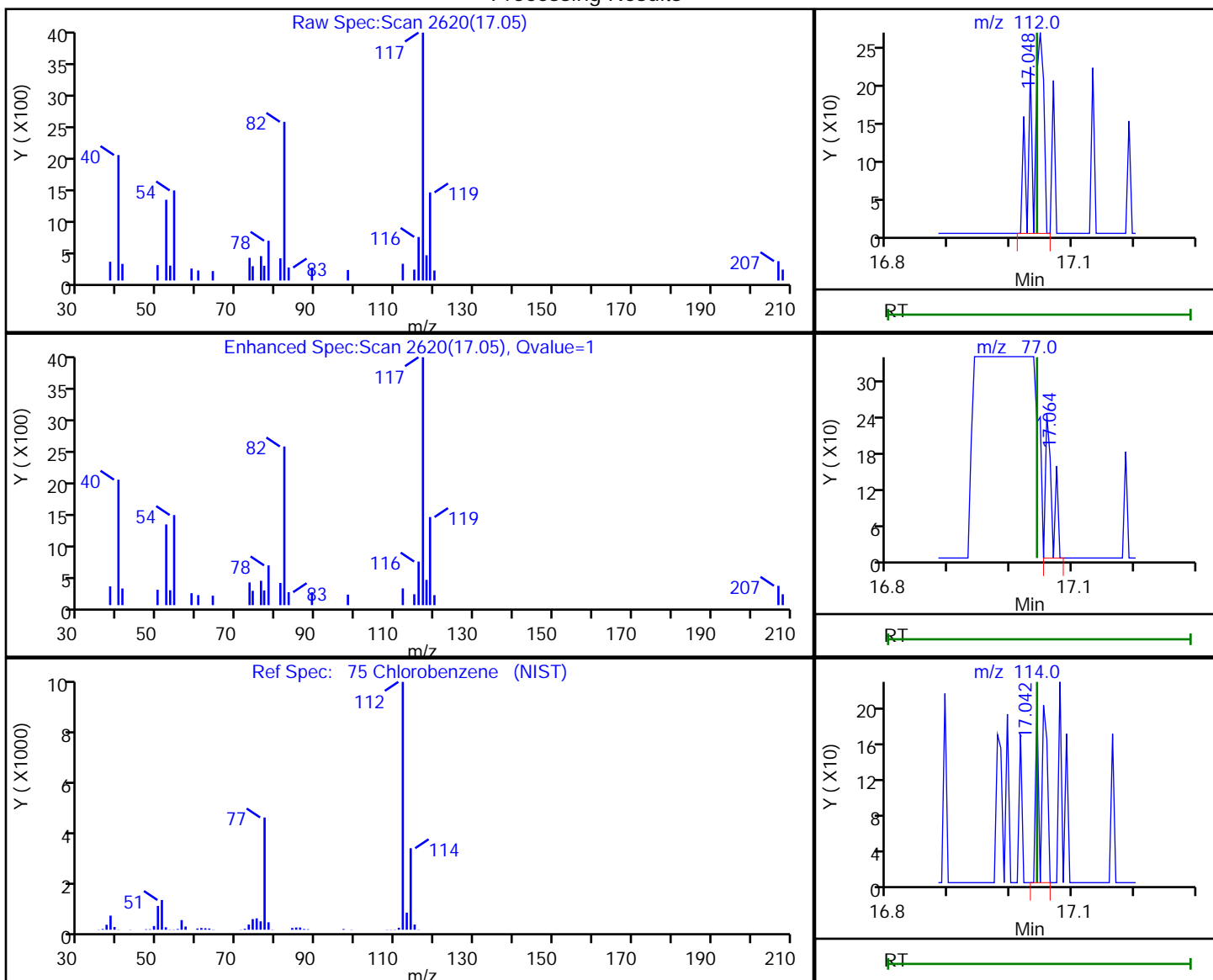
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

75 Chlorobenzene, CAS: 108-90-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.05 | 112.00 | 342      | 0.004691 |
| 17.06 | 77.00  | 180      |          |
| 17.04 | 114.00 | 179      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:46

Audit Action: Marked Compound Undetected

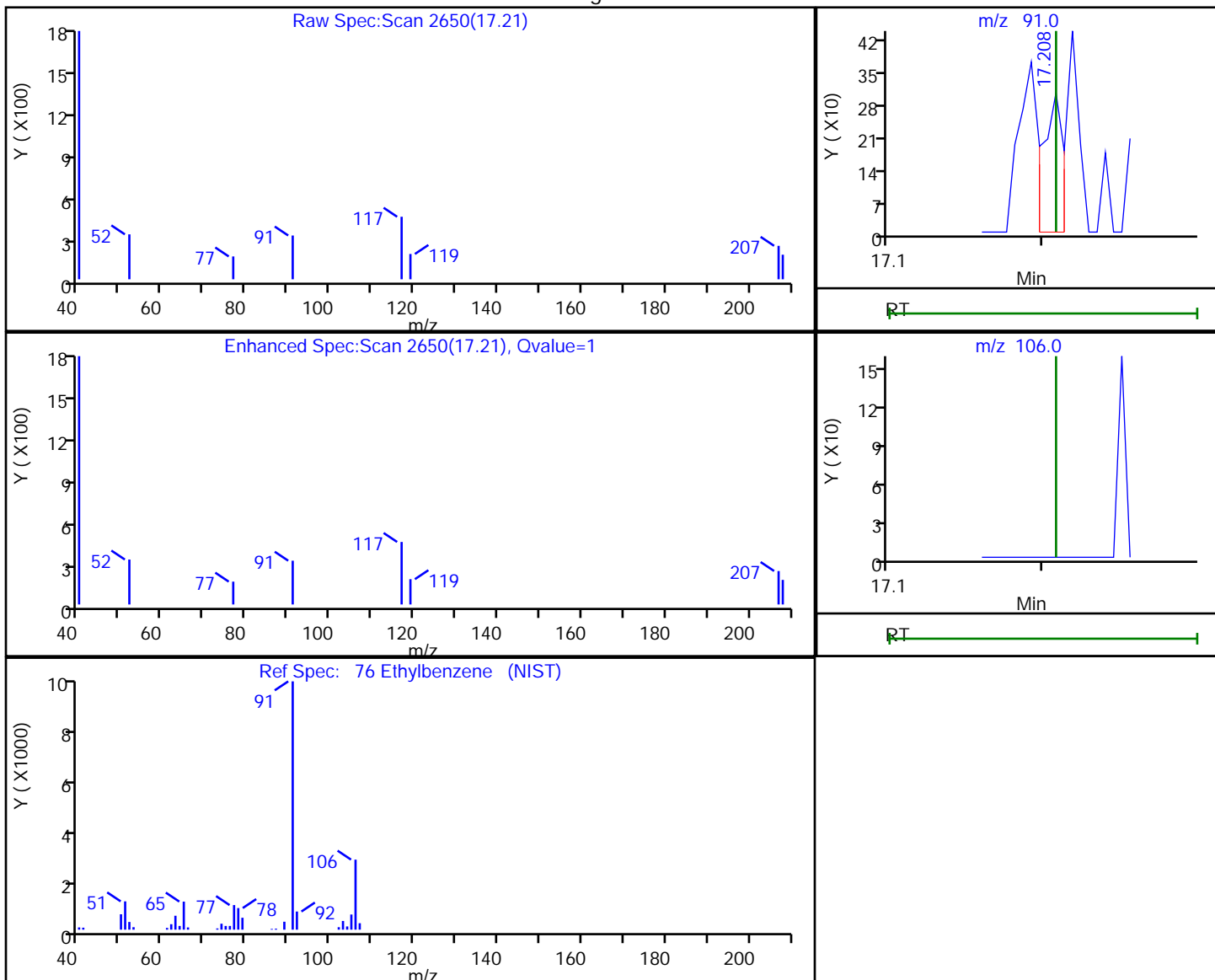
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.21 | 91.00  | 277      | 0.002544 |
| 17.21 | 106.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:50:54

Audit Action: Marked Compound Undetected

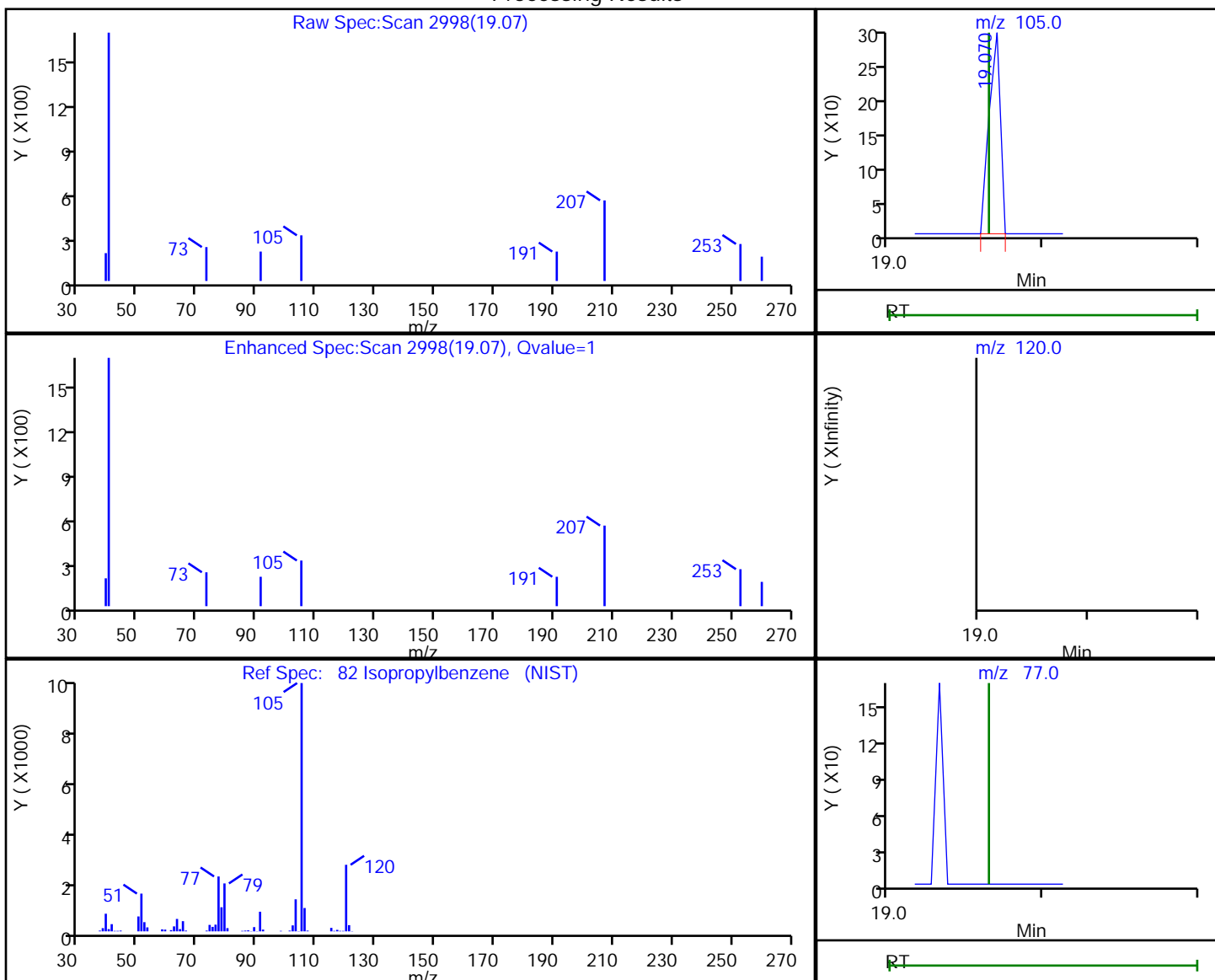
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 Isopropylbenzene, CAS: 98-82-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.07 | 105.00 | 150      | 0.001253 |
| 19.06 | 120.00 | 0        |          |
| 19.06 | 77.00  | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:25

Audit Action: Marked Compound Undetected

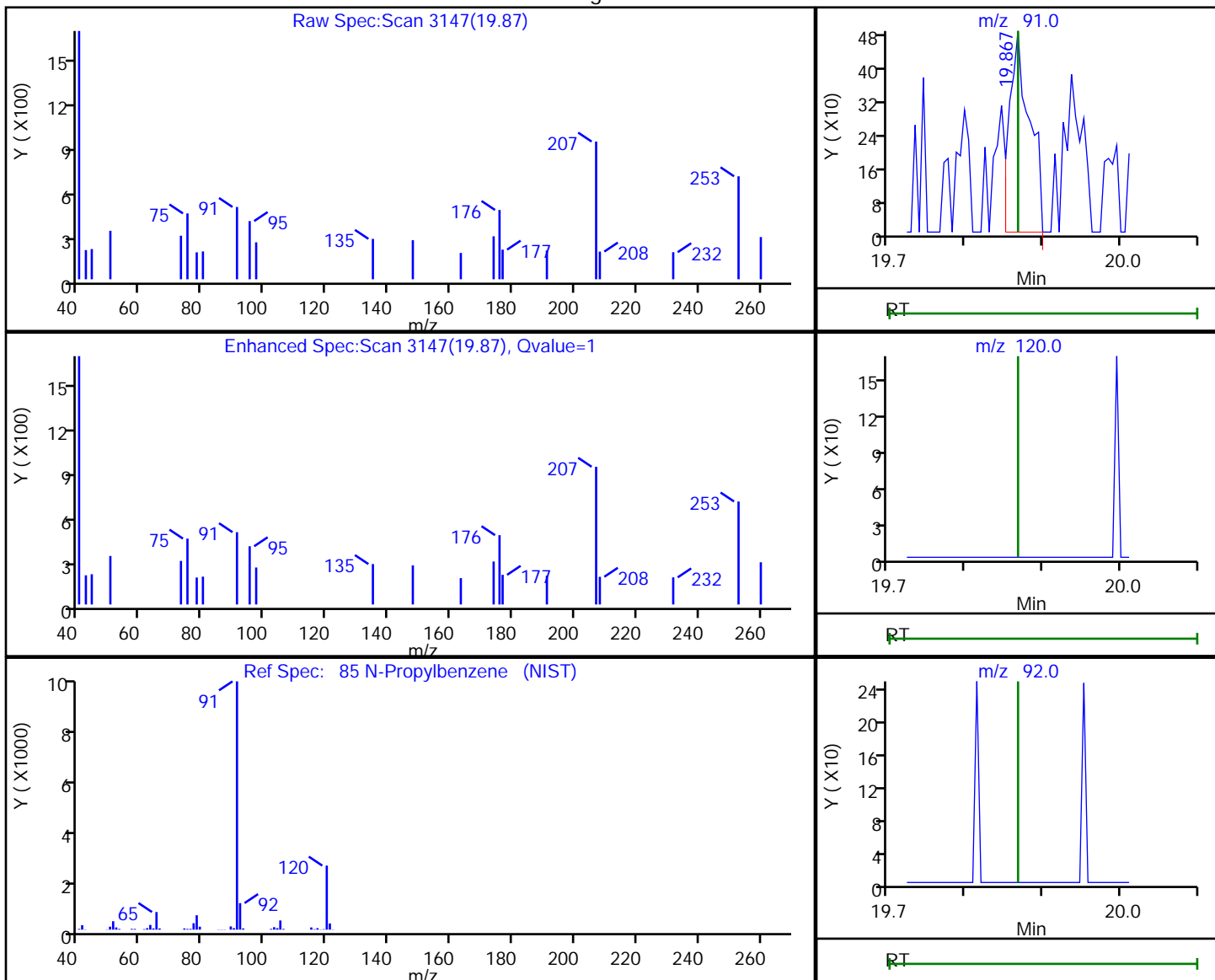
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.87 | 91.00  | 868      | 0.006281 |
| 19.87 | 120.00 | 0        |          |
| 19.87 | 92.00  | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:31

Audit Action: Marked Compound Undetected

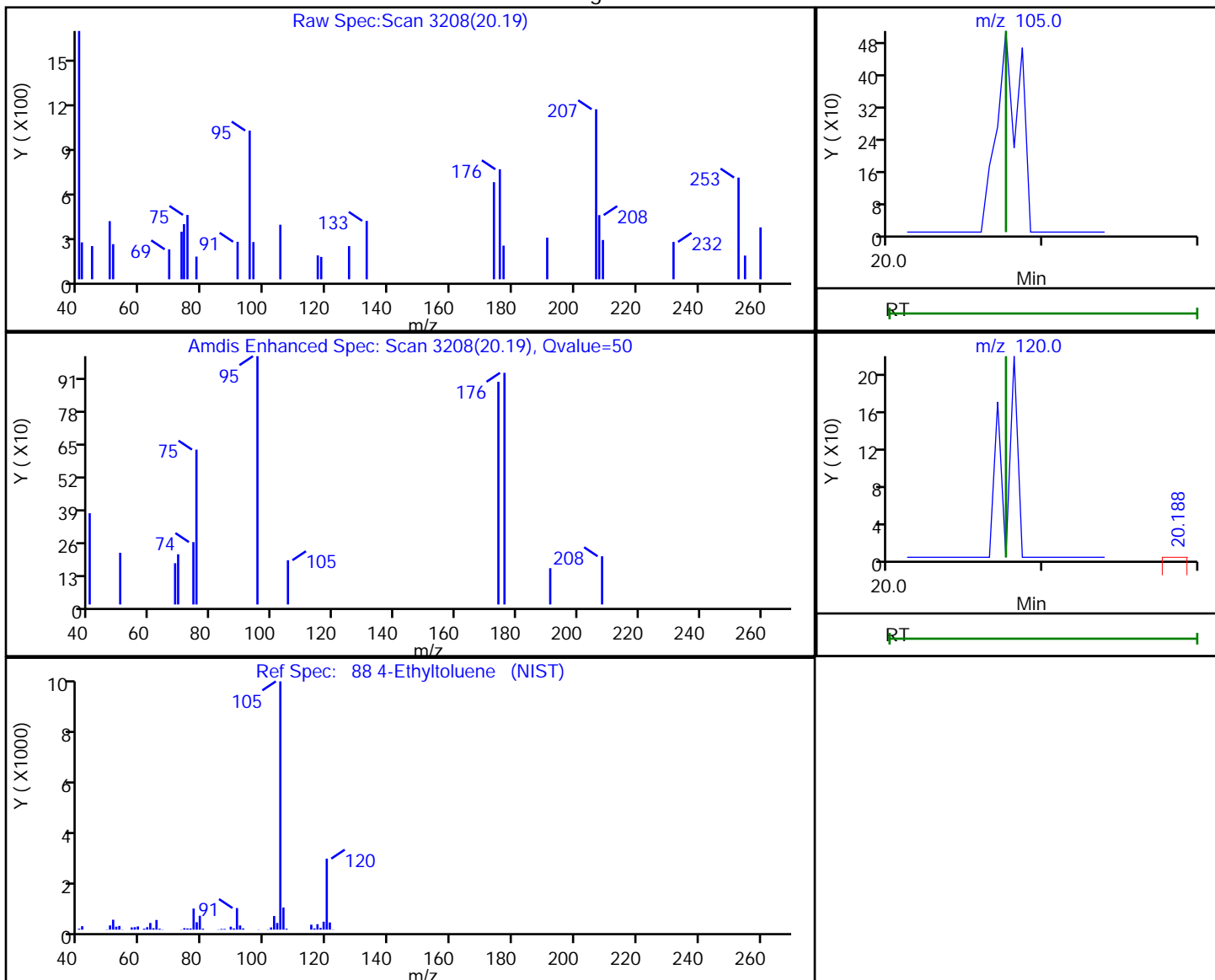
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
Lims ID: mb  
Client ID:  
Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.19 | 105.00 | 324      | 0.002909 |
| 20.19 | 120.00 | 146      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:50

Audit Action: Marked Compound Undetected

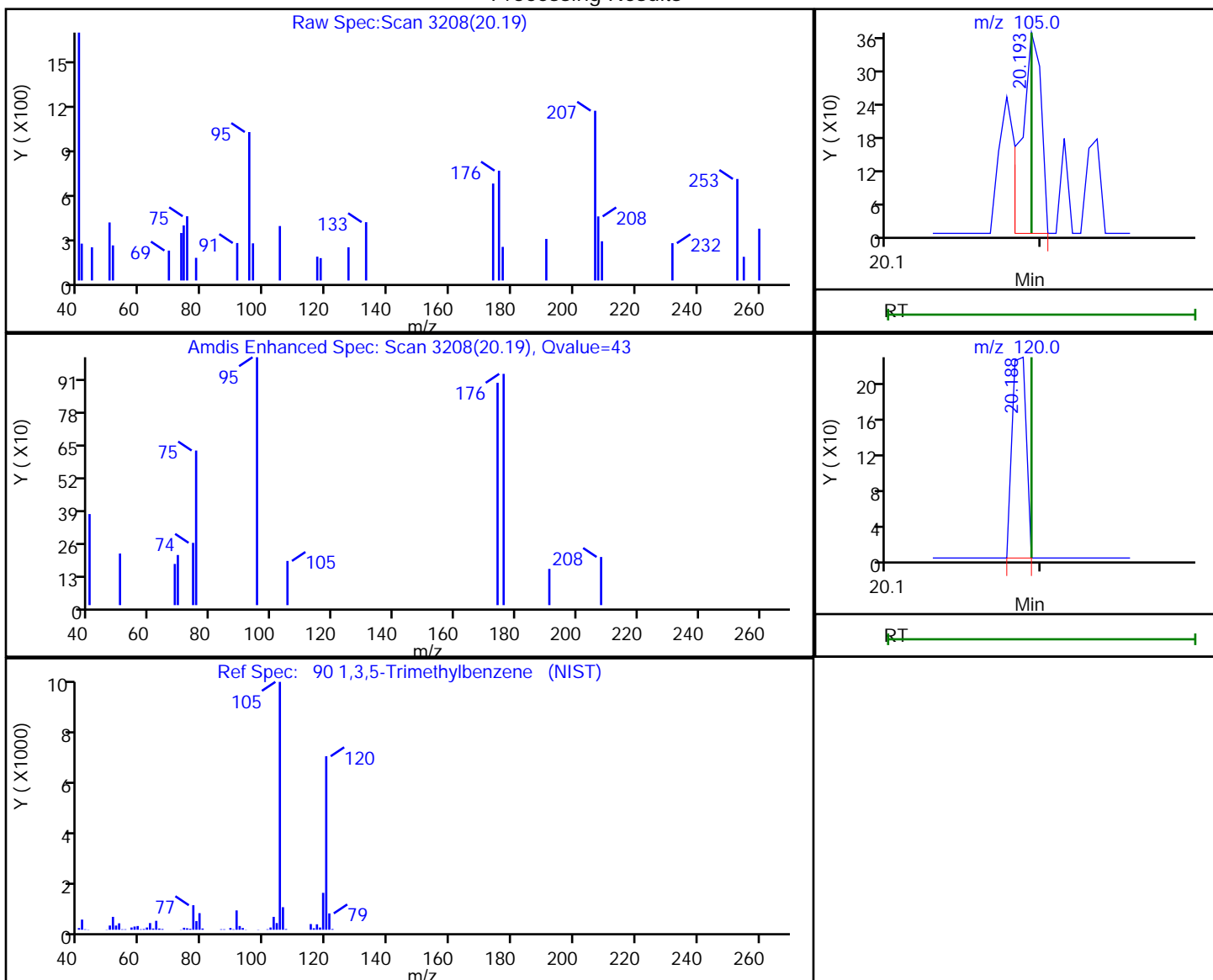
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.19 | 105.00 | 324      | 0.003337 |
| 20.19 | 120.00 | 146      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:53

Audit Action: Marked Compound Undetected

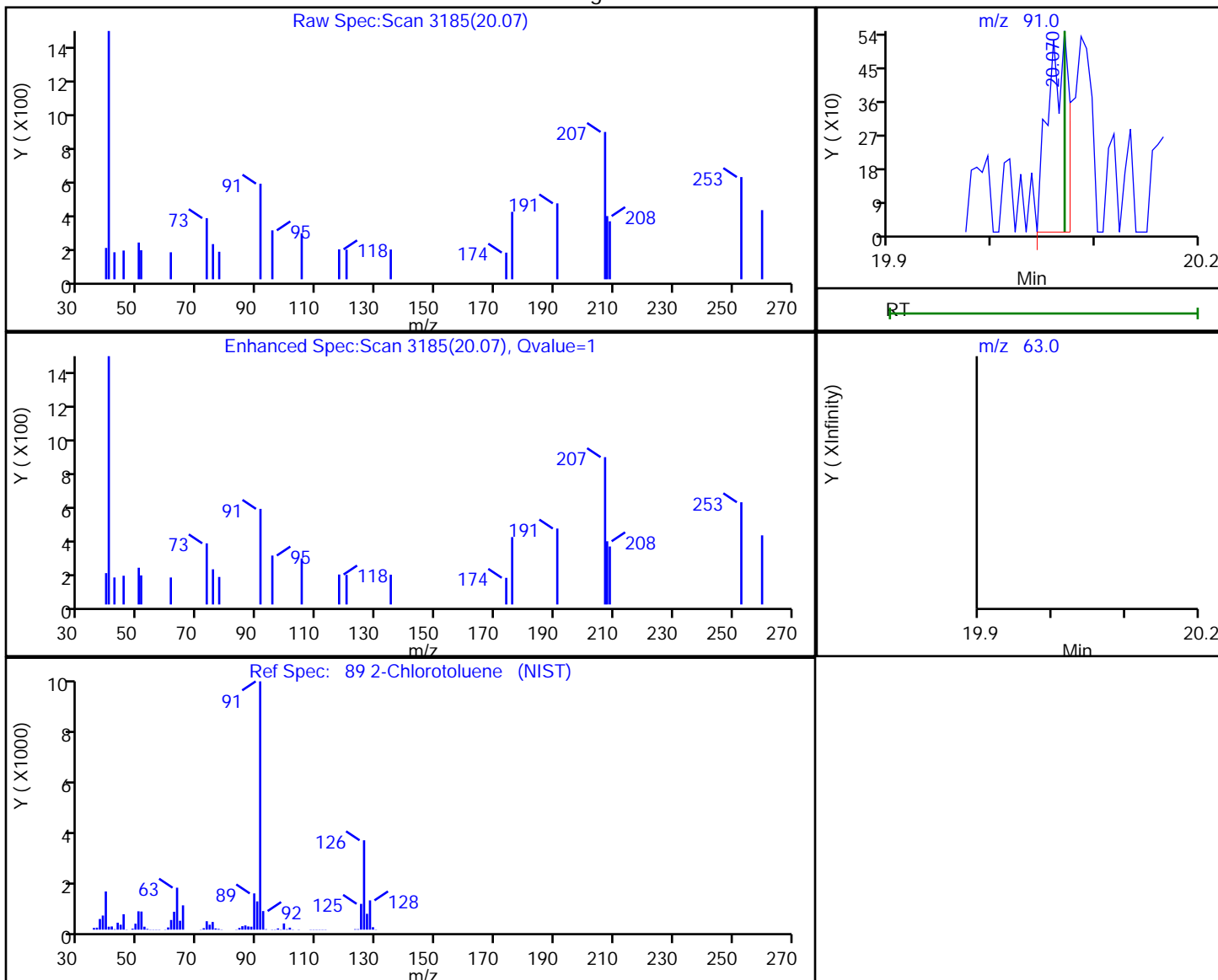
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.07 | 91.00 | 754      | 0.007439 |
| 20.07 | 63.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

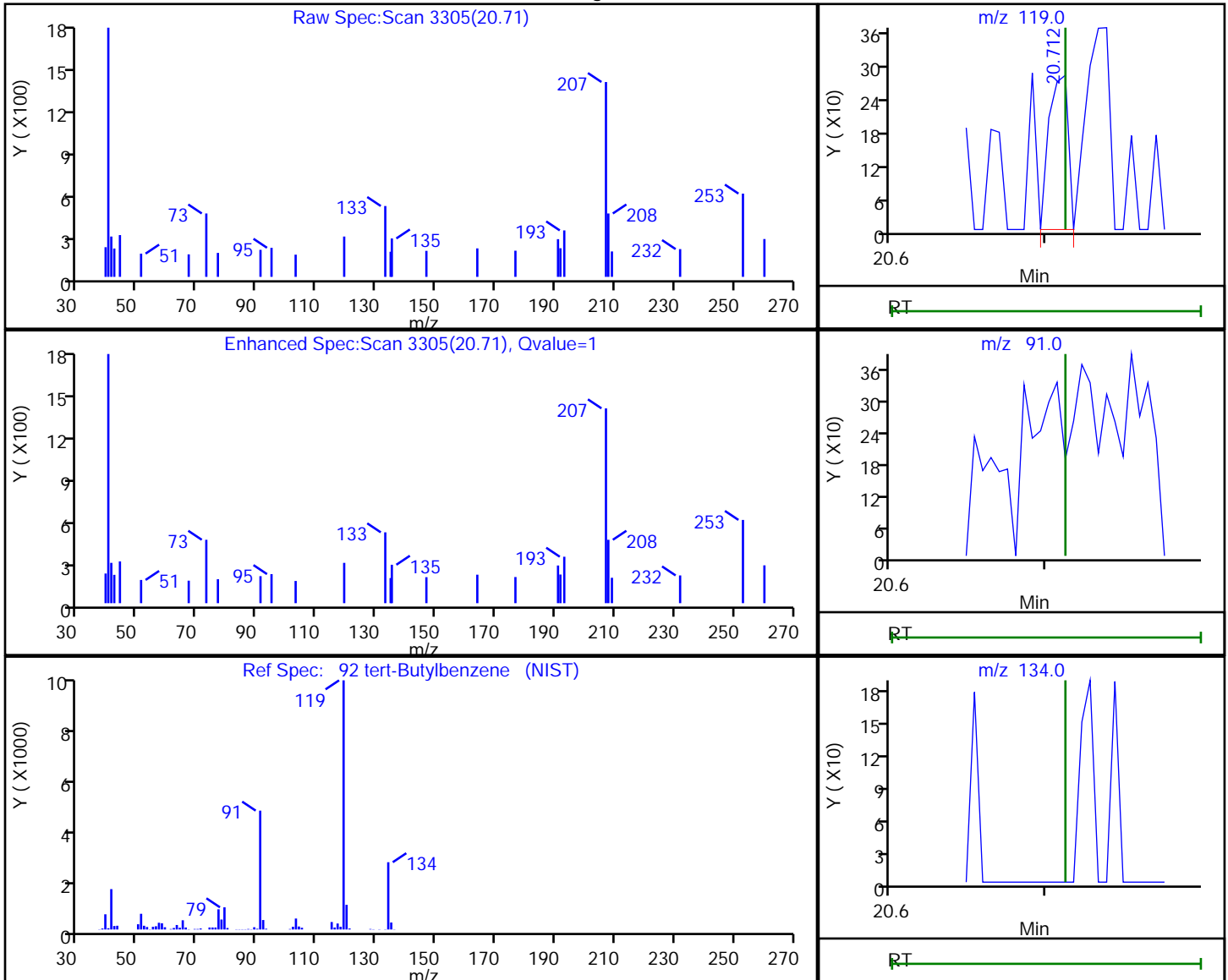


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.71 | 119.00 | 238      | 0.002561 |
| 20.71 | 91.00  | 0        |          |
| 20.71 | 134.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:56

Audit Action: Marked Compound Undetected

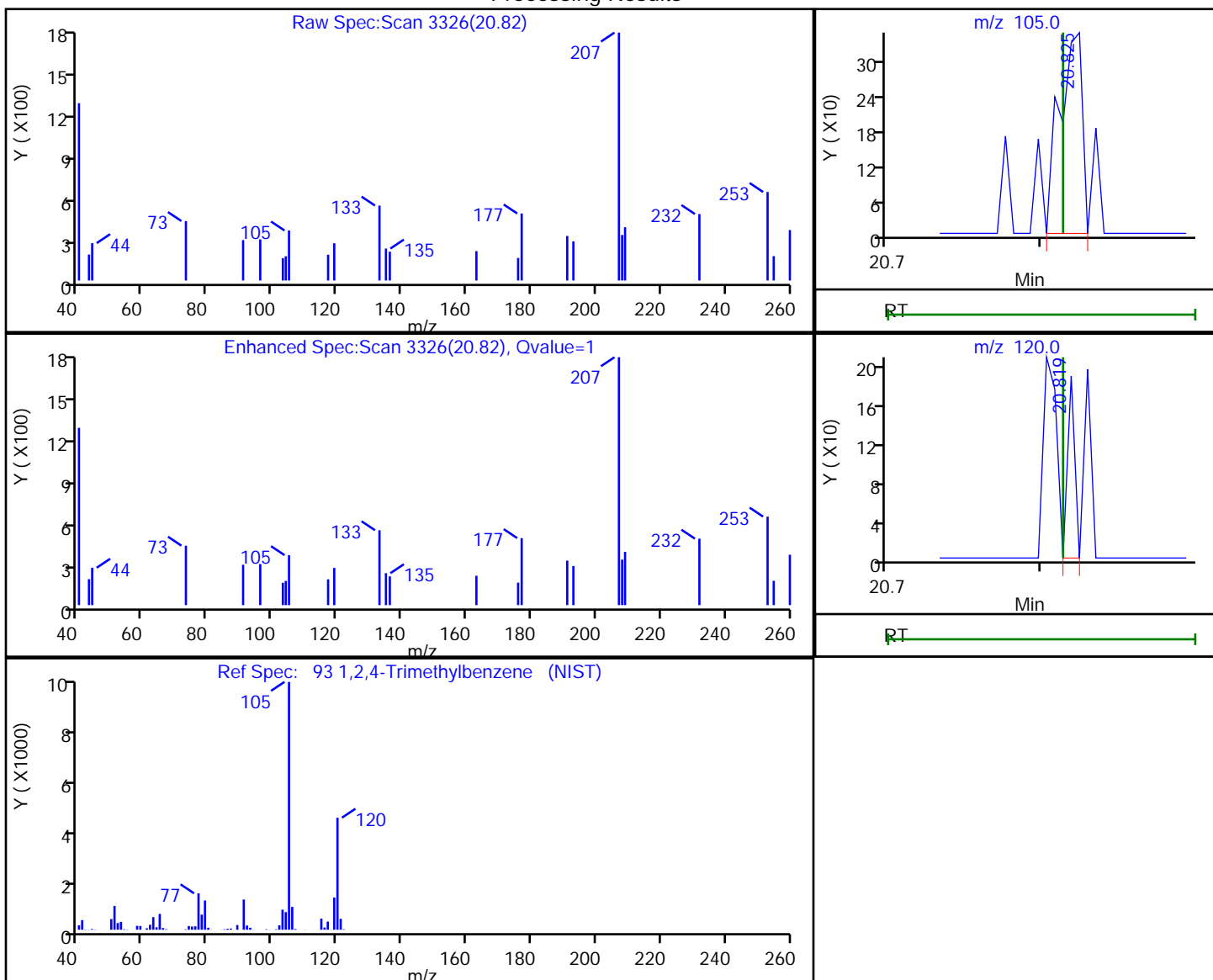
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.82 | 105.00 | 356      | 0.003805 |
| 20.82 | 120.00 | 58       |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:58

Audit Action: Marked Compound Undetected

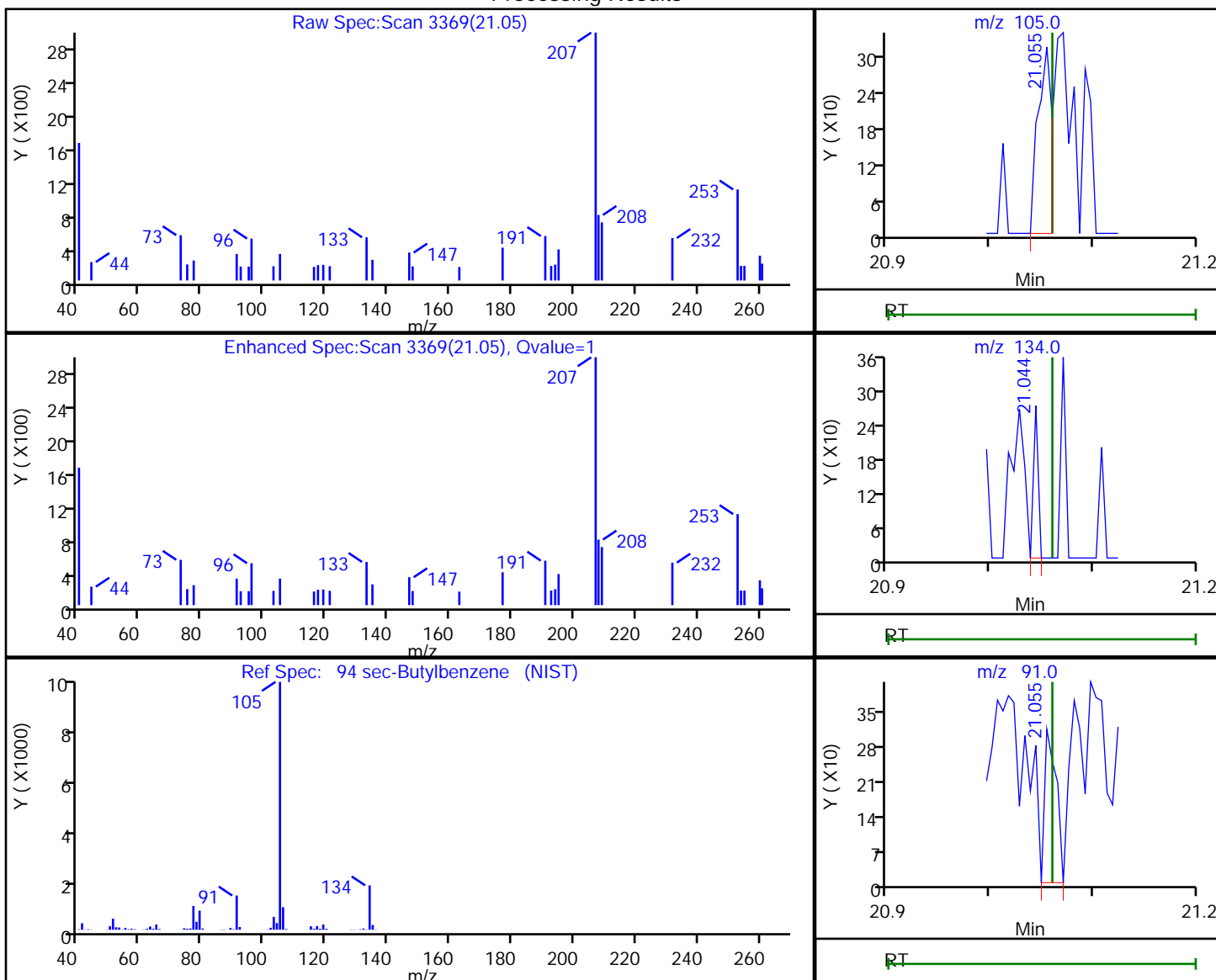
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.05 | 105.00 | 293      | 0.002167 |
| 21.04 | 134.00 | 86       |          |
| 21.05 | 91.00  | 244      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:51:59

Audit Action: Marked Compound Undetected

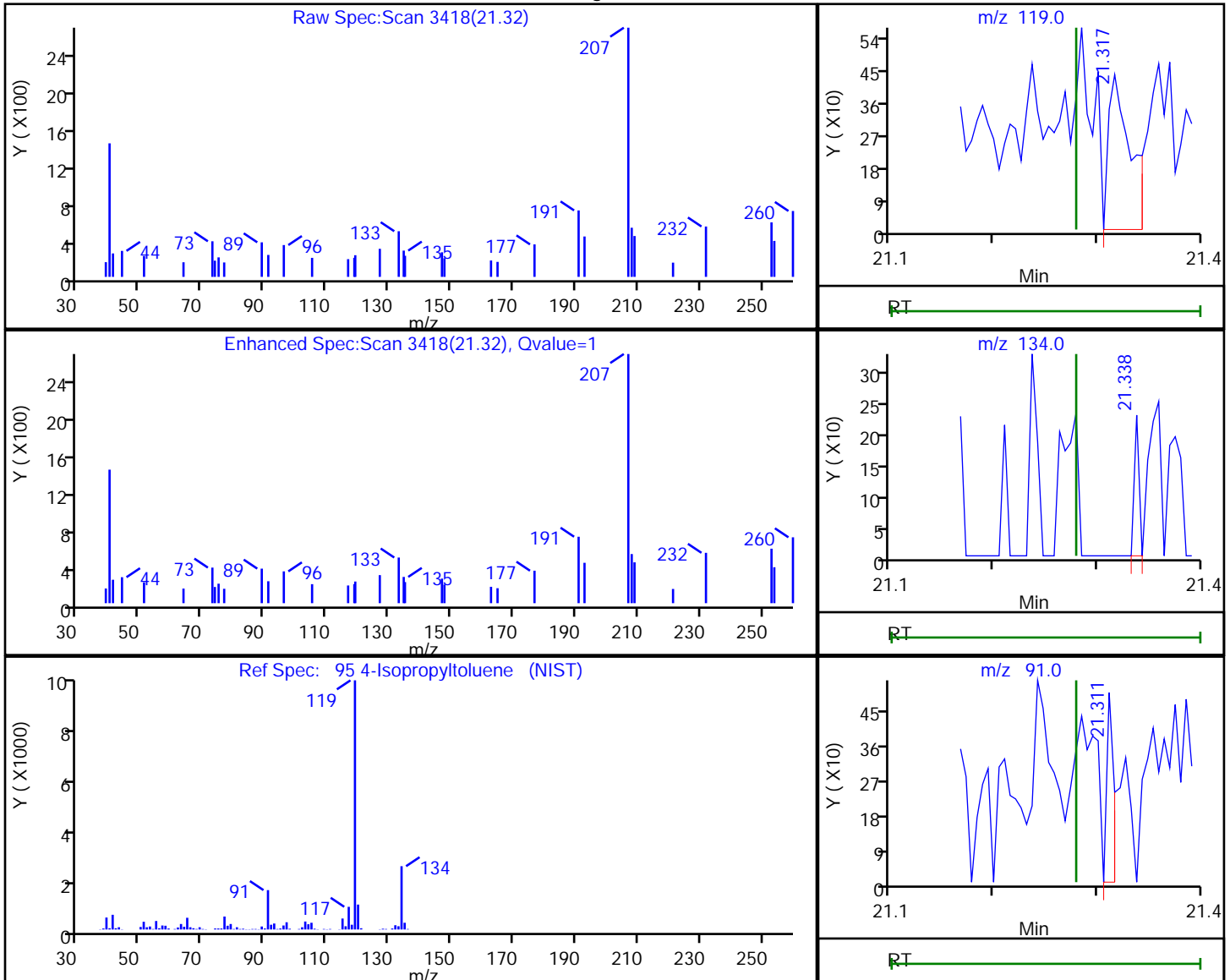
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.32 | 119.00 | 634      | 0.005756 |
| 21.34 | 134.00 | 73       |          |
| 21.31 | 91.00  | 233      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:00

Audit Action: Marked Compound Undetected

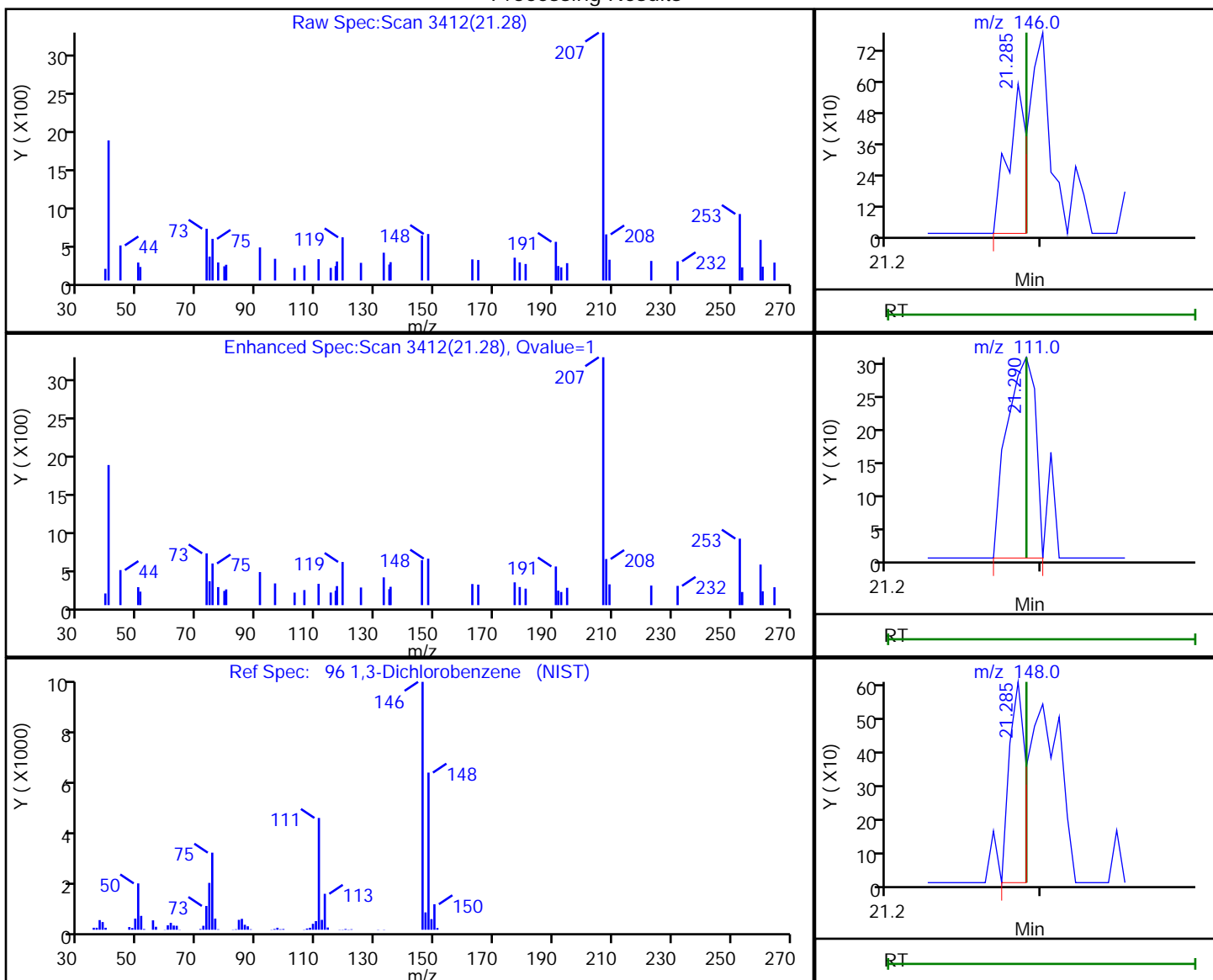
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.28 | 146.00 | 488      | 0.006750 |
| 21.29 | 111.00 | 394      |          |
| 21.28 | 148.00 | 442      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:02

Audit Action: Marked Compound Undetected

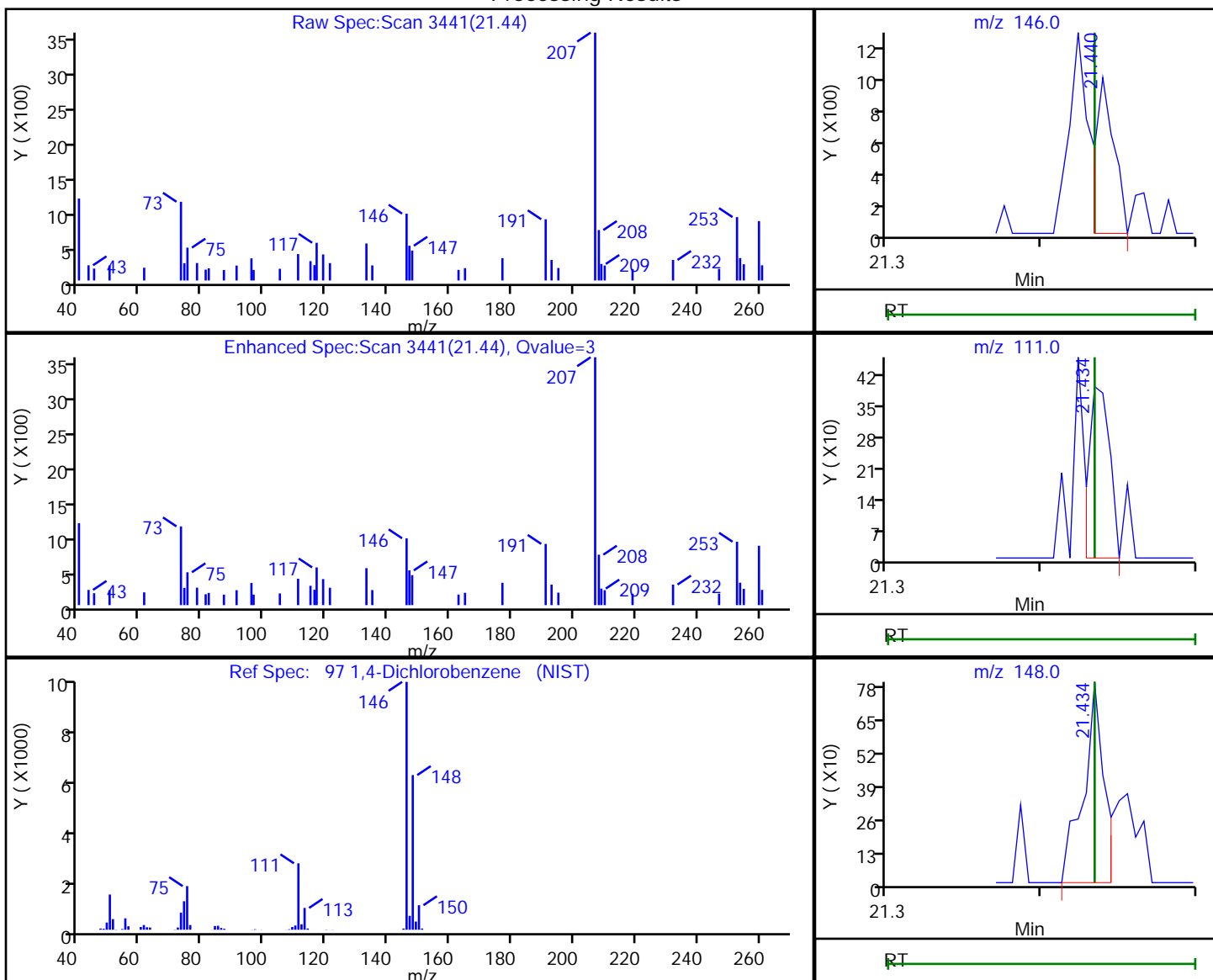
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.44 | 146.00 | 803      | 0.011339 |
| 21.43 | 111.00 | 373      |          |
| 21.43 | 148.00 | 752      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:05

Audit Action: Marked Compound Undetected

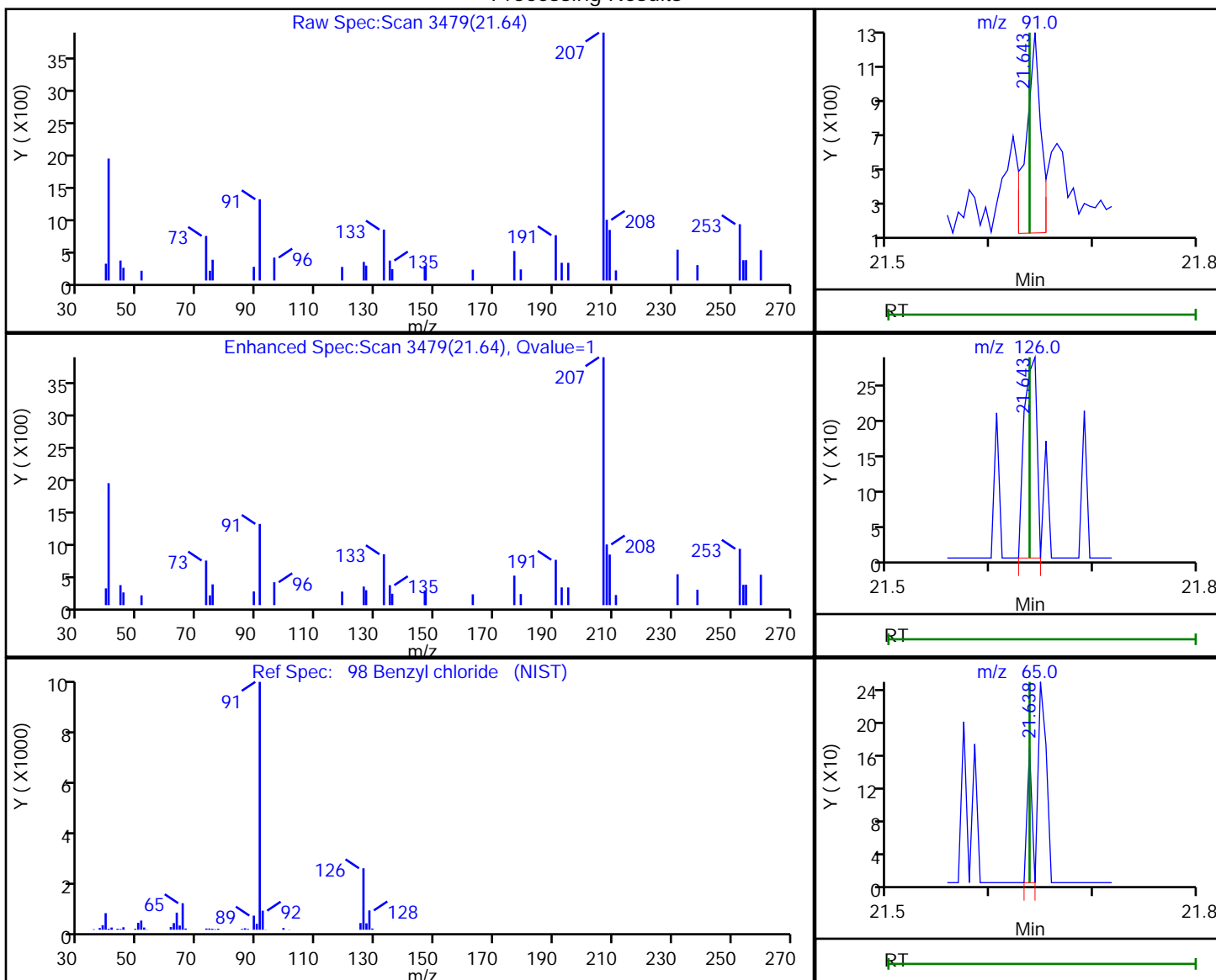
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.64 | 91.00  | 1079     | 0.012510 |
| 21.64 | 126.00 | 243      |          |
| 21.64 | 65.00  | 52       |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:08

Audit Action: Marked Compound Undetected

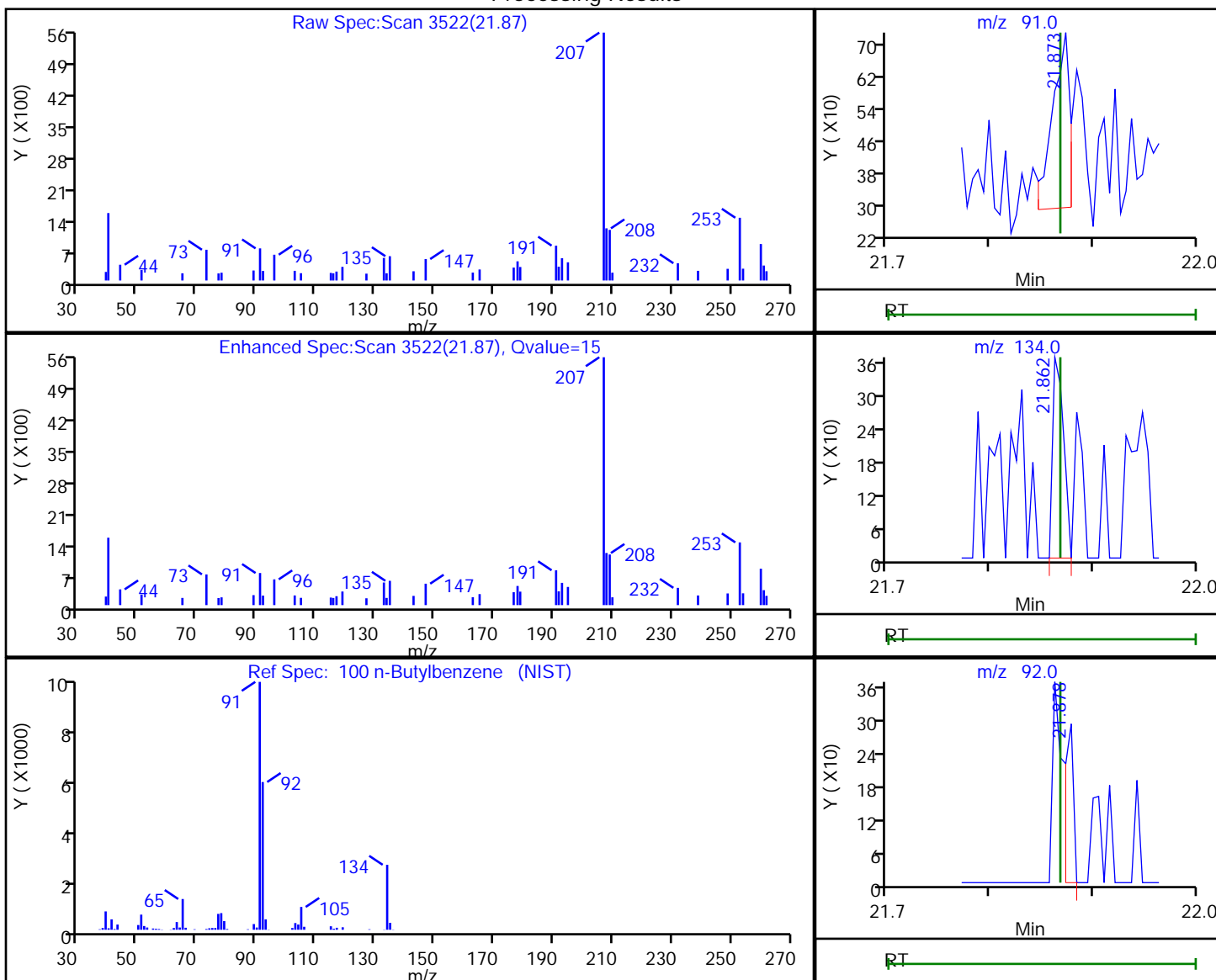
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.87 | 91.00  | 514      | 0.005251 |
| 21.86 | 134.00 | 268      |          |
| 21.88 | 92.00  | 161      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

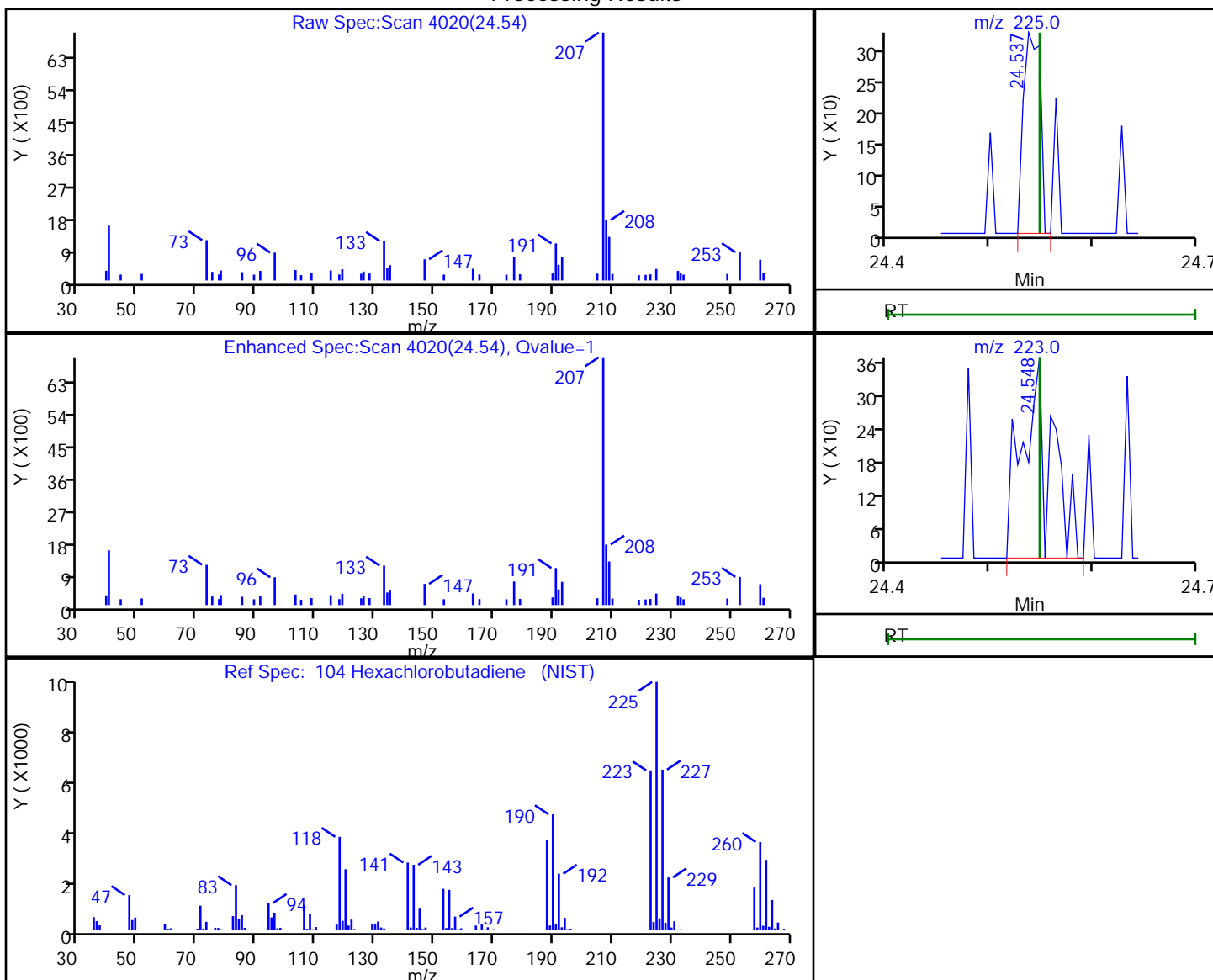


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-005.D  
 Injection Date: 31-Oct-2018 15:37:30 Instrument ID: CHG.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: wrd ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.54 | 225.00 | 368      | 0.007333 |
| 24.55 | 223.00 | 720      |          |

Reviewer: puangmaleek, 01-Nov-2018 09:52:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 200-32354-001.D BFB Injection Date: 09/25/2018  
 Instrument ID: CHG.i BFB Injection Time: 16:54  
 Analysis Batch No.: 134490

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 18.9                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 47.3                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |          |
| 173 | Less than 2.0% of mass 174         | 0.3                  | (0.4) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 77.4                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.3                  | (6.8) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 76.7                 | (99.0) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 4.9                  | (6.4) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB FILE ID         | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|---------------------|---------------|---------------|
|                  | IC 200-134490/6   | 200-32354-00<br>6.D | 09/25/2018    | 21:05         |
|                  | IC 200-134490/7   | 200-32354-00<br>7.D | 09/25/2018    | 21:56         |
|                  | ICIS 200-134490/8 | 200-32354-00<br>8.D | 09/25/2018    | 22:46         |
|                  | IC 200-134490/9   | 200-32354-00<br>9.D | 09/25/2018    | 23:36         |
|                  | IC 200-134490/10  | 200-32354-01<br>0.D | 09/26/2018    | 00:26         |
|                  | IC 200-134490/11  | 200-32354-01<br>1.D | 09/26/2018    | 01:17         |
|                  | ICV 200-134490/15 | 200-32354-01<br>5.D | 09/26/2018    | 04:37         |
|                  | IC 200-134490/19  | 200-32354-01<br>9.D | 09/26/2018    | 12:01         |
|                  | IC 200-134490/22  | 200-32354-02<br>2.D | 09/26/2018    | 14:32         |

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 200-32939-001.D BFB Injection Date: 10/31/2018  
 Instrument ID: CHG.i BFB Injection Time: 12:13  
 Analysis Batch No.: 136163

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 8.0 - 40.0% of mass 95             | 25.3                 |          |
| 75  | 30.0 - 66.0% of mass 95            | 56.2                 |          |
| 95  | Base peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                  |          |
| 173 | Less than 2.0% of mass 174         | 0.3                  | (0.4) 1  |
| 174 | 50.0 - 120.0% of mass 95           | 74.3                 |          |
| 175 | 4.0 - 9.0 % of mass 174            | 5.1                  | (6.9) 1  |
| 176 | 93.0 - 101.0% of mass 174          | 72.2                 | (97.3) 1 |
| 177 | 5.0 - 9.0% of mass 176             | 4.7                  | (6.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID         | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|---------------------|---------------|---------------|
|                  | CCVIS 200-136163/3 | 200-32939-00<br>3.D | 10/31/2018    | 13:56         |
|                  | LCS 200-136163/4   | 200-32939-00<br>4.D | 10/31/2018    | 14:46         |
|                  | MB 200-136163/5    | 200-32939-00<br>5.D | 10/31/2018    | 15:37         |
| 5621             | 200-45925-11       | 200-32939-01<br>8.D | 11/01/2018    | 02:29         |

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-134490/8 Date Analyzed: 09/25/2018 22:46  
 Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 200-32354-008.D Heated Purge: (Y/N) N  
 Calibration ID: 40146

|                               | BCM              |      | DFBZ    |       | CBNZd5  |       |
|-------------------------------|------------------|------|---------|-------|---------|-------|
|                               | AREA #           | RT # | AREA #  | RT #  | AREA #  | RT #  |
| INITIAL CALIBRATION MID-POINT | 428432           | 9.19 | 1996468 | 11.06 | 1799336 | 17.00 |
| UPPER LIMIT                   | 599805           | 9.52 | 2795055 | 11.39 | 2519070 | 17.33 |
| LOWER LIMIT                   | 257059           | 8.86 | 1197881 | 10.73 | 1079602 | 16.67 |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |      |         |       |         |       |
| ICV 200-134490/15             | 397676           | 9.19 | 1833691 | 11.06 | 1664621 | 17.01 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-136163/3 Date Analyzed: 10/31/2018 13:56  
 Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 200-32939-003.D Heated Purge: (Y/N) N  
 Calibration ID: 40146

|                  | BCM              |        | DFBZ    |         | CBNZd5  |        |
|------------------|------------------|--------|---------|---------|---------|--------|
|                  | AREA #           | RT #   | AREA #  | RT #    | AREA #  | RT #   |
| 12/24 HOUR STD   | 278679           | 9.17   | 1180689 | 11.04   | 1128406 | 16.98  |
| UPPER LIMIT      | 390151           | 9.50   | 1652965 | 11.37   | 1579768 | 17.31  |
| LOWER LIMIT      | 167207           | 8.84   | 708413  | 10.71   | 677044  | 16.65  |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |        |         |         |         |        |
| LCS 200-136163/4 | 278291           | 9.17   | 1155691 | 11.04   | 1088042 | 16.98  |
| MB 200-136163/5  | 306593           | 9.17   | 1398299 | 11.04   | 1131514 | 16.98  |
| 200-45925-11     | 5621             | 274503 | 9.17    | 1215623 | 11.04   | 982684 |

BCM = Bromochloromethane  
 DFBZ = 1,4-Difluorobenzene  
 CBNZd5 = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area  
 RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5621 Lab Sample ID: 200-45925-11  
 Matrix: Air Lab File ID: 200-32939-018.D  
 Analysis Method: TO-15 Date Collected: 10/28/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/01/2018 02:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                 | RESULT | Q | RL    | RL    |
|-----------|-------------------------------|--------|---|-------|-------|
| 115-07-1  | Propylene                     | 1.0    | U | 1.0   | 1.0   |
| 75-71-8   | Dichlorodifluoromethane       | 0.10   | U | 0.10  | 0.10  |
| 75-45-6   | Freon 22                      | 0.10   | U | 0.10  | 0.10  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane | 0.040  | U | 0.040 | 0.040 |
| 74-87-3   | Chloromethane                 | 0.10   | U | 0.10  | 0.10  |
| 106-97-8  | n-Butane                      | 0.10   | U | 0.10  | 0.10  |
| 75-01-4   | Vinyl chloride                | 0.040  | U | 0.040 | 0.040 |
| 106-99-0  | 1,3-Butadiene                 | 0.040  | U | 0.040 | 0.040 |
| 74-83-9   | Bromomethane                  | 0.040  | U | 0.040 | 0.040 |
| 75-00-3   | Chloroethane                  | 0.10   | U | 0.10  | 0.10  |
| 593-60-2  | Bromoethene (Vinyl Bromide)   | 0.040  | U | 0.040 | 0.040 |
| 75-69-4   | Trichlorofluoromethane        | 0.040  | U | 0.040 | 0.040 |
| 64-17-5   | Ethanol                       | 1.0    | U | 1.0   | 1.0   |
| 76-13-1   | Freon TF                      | 0.040  | U | 0.040 | 0.040 |
| 75-35-4   | 1,1-Dichloroethene            | 0.040  | U | 0.040 | 0.040 |
| 67-64-1   | Acetone                       | 1.0    | U | 1.0   | 1.0   |
| 67-63-0   | Isopropyl alcohol             | 1.0    | U | 1.0   | 1.0   |
| 75-15-0   | Carbon disulfide              | 0.10   | U | 0.10  | 0.10  |
| 107-05-1  | 3-Chloropropene               | 0.10   | U | 0.10  | 0.10  |
| 75-09-2   | Methylene Chloride            | 0.10   | U | 0.10  | 0.10  |
| 75-65-0   | tert-Butyl alcohol            | 1.0    | U | 1.0   | 1.0   |
| 1634-04-4 | Methyl tert-butyl ether       | 0.040  | U | 0.040 | 0.040 |
| 156-60-5  | trans-1,2-Dichloroethene      | 0.040  | U | 0.040 | 0.040 |
| 110-54-3  | n-Hexane                      | 0.040  | U | 0.040 | 0.040 |
| 75-34-3   | 1,1-Dichloroethane            | 0.040  | U | 0.040 | 0.040 |
| 108-05-4  | Vinyl acetate                 | 1.0    | U | 1.0   | 1.0   |
| 141-78-6  | Ethyl acetate                 | 1.0    | U | 1.0   | 1.0   |
| 78-93-3   | Methyl Ethyl Ketone           | 0.10   | U | 0.10  | 0.10  |
| 156-59-2  | cis-1,2-Dichloroethene        | 0.040  | U | 0.040 | 0.040 |
| 540-59-0  | 1,2-Dichloroethene, Total     | 0.080  | U | 0.080 | 0.080 |
| 67-66-3   | Chloroform                    | 0.040  | U | 0.040 | 0.040 |
| 109-99-9  | Tetrahydrofuran               | 1.0    | U | 1.0   | 1.0   |
| 71-55-6   | 1,1,1-Trichloroethane         | 0.040  | U | 0.040 | 0.040 |
| 110-82-7  | Cyclohexane                   | 0.040  | U | 0.040 | 0.040 |
| 56-23-5   | Carbon tetrachloride          | 0.040  | U | 0.040 | 0.040 |
| 540-84-1  | 2,2,4-Trimethylpentane        | 0.040  | U | 0.040 | 0.040 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5621 Lab Sample ID: 200-45925-11  
 Matrix: Air Lab File ID: 200-32939-018.D  
 Analysis Method: TO-15 Date Collected: 10/28/2018 00:00  
 Sample wt/vol: 1000(mL) Date Analyzed: 11/01/2018 02:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                    | RESULT | Q   | RL    | RL    |
|-------------|----------------------------------|--------|-----|-------|-------|
| 71-43-2     | Benzene                          | 0.040  | U   | 0.040 | 0.040 |
| 107-06-2    | 1,2-Dichloroethane               | 0.040  | U   | 0.040 | 0.040 |
| 142-82-5    | n-Heptane                        | 0.040  | U * | 0.040 | 0.040 |
| 79-01-6     | Trichloroethene                  | 0.040  | U   | 0.040 | 0.040 |
| 80-62-6     | Methyl methacrylate              | 0.10   | U   | 0.10  | 0.10  |
| 78-87-5     | 1,2-Dichloropropane              | 0.040  | U   | 0.040 | 0.040 |
| 123-91-1    | 1,4-Dioxane                      | 1.0    | U   | 1.0   | 1.0   |
| 75-27-4     | Bromodichloromethane             | 0.040  | U   | 0.040 | 0.040 |
| 10061-01-5  | cis-1,3-Dichloropropene          | 0.040  | U   | 0.040 | 0.040 |
| 108-10-1    | methyl isobutyl ketone           | 0.10   | U   | 0.10  | 0.10  |
| 108-88-3    | Toluene                          | 0.040  | U   | 0.040 | 0.040 |
| 10061-02-6  | trans-1,3-Dichloropropene        | 0.040  | U   | 0.040 | 0.040 |
| 79-00-5     | 1,1,2-Trichloroethane            | 0.040  | U   | 0.040 | 0.040 |
| 127-18-4    | Tetrachloroethene                | 0.040  | U   | 0.040 | 0.040 |
| 591-78-6    | Methyl Butyl Ketone (2-Hexanone) | 0.10   | U   | 0.10  | 0.10  |
| 124-48-1    | Dibromochloromethane             | 0.040  | U   | 0.040 | 0.040 |
| 106-93-4    | 1,2-Dibromoethane                | 0.040  | U   | 0.040 | 0.040 |
| 108-90-7    | Chlorobenzene                    | 0.040  | U   | 0.040 | 0.040 |
| 100-41-4    | Ethylbenzene                     | 0.040  | U   | 0.040 | 0.040 |
| 179601-23-1 | m,p-Xylene                       | 0.10   | U   | 0.10  | 0.10  |
| 95-47-6     | Xylene, o-                       | 0.040  | U   | 0.040 | 0.040 |
| 1330-20-7   | Xylene (total)                   | 0.14   | U   | 0.14  | 0.14  |
| 100-42-5    | Styrene                          | 0.040  | U   | 0.040 | 0.040 |
| 75-25-2     | Bromoform                        | 0.040  | U   | 0.040 | 0.040 |
| 98-82-8     | Cumene                           | 0.040  | U   | 0.040 | 0.040 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane        | 0.040  | U   | 0.040 | 0.040 |
| 103-65-1    | n-Propylbenzene                  | 0.040  | U   | 0.040 | 0.040 |
| 622-96-8    | 4-Ethyltoluene                   | 0.040  | U   | 0.040 | 0.040 |
| 108-67-8    | 1,3,5-Trimethylbenzene           | 0.040  | U   | 0.040 | 0.040 |
| 95-49-8     | 2-Chlorotoluene                  | 0.040  | U   | 0.040 | 0.040 |
| 98-06-6     | tert-Butylbenzene                | 0.040  | U   | 0.040 | 0.040 |
| 95-63-6     | 1,2,4-Trimethylbenzene           | 0.040  | U   | 0.040 | 0.040 |
| 135-98-8    | sec-Butylbenzene                 | 0.040  | U   | 0.040 | 0.040 |
| 99-87-6     | 4-Isopropyltoluene               | 0.040  | U   | 0.040 | 0.040 |
| 541-73-1    | 1,3-Dichlorobenzene              | 0.040  | U   | 0.040 | 0.040 |
| 106-46-7    | 1,4-Dichlorobenzene              | 0.040  | U   | 0.040 | 0.040 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5621 Lab Sample ID: 200-45925-11  
 Matrix: Air Lab File ID: 200-32939-018.D  
 Analysis Method: TO-15 Date Collected: 10/28/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/01/2018 02:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 136163 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | RESULT | Q | RL    | RL    |
|----------|------------------------|--------|---|-------|-------|
| 100-44-7 | Benzyl chloride        | 0.040  | U | 0.040 | 0.040 |
| 104-51-8 | n-Butylbenzene         | 0.040  | U | 0.040 | 0.040 |
| 95-50-1  | 1,2-Dichlorobenzene    | 0.040  | U | 0.040 | 0.040 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.10   | U | 0.10  | 0.10  |
| 87-68-3  | Hexachlorobutadiene    | 0.040  | U | 0.040 | 0.040 |
| 91-20-3  | Naphthalene            | 0.10   | U | 0.10  | 0.10  |



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Lims ID: 200-45925-A-11  
 Client ID: 5621  
 Sample Type: Client  
 Inject. Date: 01-Nov-2018 02:29:30 ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032939-018  
 Misc. Info.: 45925-11  
 Operator ID: wrd Instrument ID: CHG.i  
 Method: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 01-Nov-2018 14:28:50 Calib Date: 26-Sep-2018 14:32:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20180925-32354.b\200-32354-022.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: puangmaleek

Date: 01-Nov-2018 14:28:50

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 1 Propene                     | 41  |           | 3.096         |               |    |          | ND                | U     |
| 2 Dichlorodifluoromethane     | 85  |           | 3.149         |               |    |          | ND                |       |
| 3 Chlorodifluoromethane       | 51  |           | 3.181         |               |    |          | ND                | U     |
| 4 1,2-Dichloro-1,1,2,2-tetra  | 85  |           | 3.347         |               |    |          | ND                |       |
| 5 Chloromethane               | 50  |           | 3.460         |               |    |          | ND                | U     |
| 6 Butane                      | 43  |           | 3.609         |               |    |          | ND                | U     |
| 7 Vinyl chloride              | 62  |           | 3.641         |               |    |          | ND                |       |
| 8 Butadiene                   | 54  |           | 3.695         |               |    |          | ND                |       |
| 10 Bromomethane               | 94  |           | 4.214         |               |    |          | ND                |       |
| 11 Chloroethane               | 64  |           | 4.385         |               |    |          | ND                |       |
| 13 Vinyl bromide              | 106 |           | 4.695         |               |    |          | ND                |       |
| 14 Trichlorofluoromethane     | 101 |           | 4.770         |               |    |          | ND                |       |
| 17 Ethanol                    | 45  |           | 5.209         |               |    |          | ND                | U     |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 |           | 5.615         |               |    |          | ND                | U     |
| 21 1,1-Dichloroethene         | 96  |           | 5.669         |               |    |          | ND                | U     |
| 22 Acetone                    | 43  |           | 5.867         |               |    |          | ND                | U     |
| 23 Carbon disulfide           | 76  | 6.038     | 6.038         | 0.011         | 39 | 1819     | 0.0290            | M     |
| 24 Isopropyl alcohol          | 45  |           | 6.102         |               |    |          | ND                |       |
| 25 3-Chloro-1-propene         | 41  |           | 6.322         |               |    |          | ND                | U     |
| 27 Methylene Chloride         | 49  |           | 6.568         |               |    |          | ND                | U     |
| 28 2-Methyl-2-propanol        | 59  |           | 6.782         |               |    |          | ND                |       |
| 29 Methyl tert-butyl ether    | 73  |           | 6.948         |               |    |          | ND                |       |
| 31 trans-1,2-Dichloroethene   | 61  |           | 6.964         |               |    |          | ND                |       |
| 33 Hexane                     | 57  |           | 7.301         |               |    |          | ND                |       |
| 34 1,1-Dichloroethane         | 63  |           | 7.739         |               |    |          | ND                |       |
| 35 Vinyl acetate              | 43  |           | 7.803         |               |    |          | ND                |       |
| 37 cis-1,2-Dichloroethene     | 96  |           | 8.745         |               |    |          | ND                |       |
| 38 2-Butanone (MEK)           | 72  |           | 8.804         |               |    |          | ND                |       |
| 39 Ethyl acetate              | 88  |           | 8.841         |               |    |          | ND                |       |
| * 40 Chlorobromomethane       | 128 | 9.167     | 9.173         | -0.006        | 85 | 274503   | 10.0              |       |
| 41 Tetrahydrofuran            | 42  |           | 9.226         |               |    |          | ND                |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | OnCol Amt ppb v/v | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| 42 Chloroform                  | 83  |           | 9.291         |               |    |          | ND                |       |
| 43 Cyclohexane                 | 84  |           | 9.547         |               |    |          | ND                |       |
| 44 1,1,1-Trichloroethane       | 97  |           | 9.564         |               |    |          | ND                |       |
| S 30 1,2-Dichloroethene, Total | 61  |           | 9.665         |               |    |          | ND                |       |
| 45 Carbon tetrachloride        | 117 |           | 9.799         |               |    |          | ND                |       |
| 46 Isooctane                   | 57  |           | 10.216        |               |    |          | ND                |       |
| 47 Benzene                     | 78  |           | 10.238        |               |    |          | ND                | U     |
| 48 1,2-Dichloroethane          | 62  |           | 10.403        |               |    |          | ND                |       |
| 49 n-Heptane                   | 43  |           | 10.585        |               |    |          | ND                |       |
| * 50 1,4-Difluorobenzene       | 114 | 11.035    | 11.040        | -0.005        | 95 | 1215623  | 10.0              |       |
| 53 Trichloroethene             | 95  |           | 11.505        |               |    |          | ND                |       |
| 54 1,2-Dichloropropane         | 63  |           | 12.046        |               |    |          | ND                |       |
| 55 Methyl methacrylate         | 69  |           | 12.228        |               |    |          | ND                |       |
| 57 Dibromomethane              | 174 |           | 12.292        |               |    |          | ND                | U     |
| 56 1,4-Dioxane                 | 88  |           | 12.297        |               |    |          | ND                |       |
| 58 Dichlorobromomethane        | 83  |           | 12.581        |               |    |          | ND                |       |
| 60 cis-1,3-Dichloropropene     | 75  |           | 13.496        |               |    |          | ND                |       |
| 61 4-Methyl-2-pentanone (MIBK) | 43  |           | 13.811        |               |    |          | ND                |       |
| 65 Toluene                     | 92  |           | 14.084        |               |    |          | ND                | U     |
| 66 trans-1,3-Dichloropropene   | 75  |           | 14.678        |               |    |          | ND                |       |
| 67 1,1,2-Trichloroethane       | 83  |           | 15.047        |               |    |          | ND                |       |
| 68 Tetrachloroethene           | 166 |           | 15.165        |               |    |          | ND                |       |
| 69 2-Hexanone                  | 43  |           | 15.528        |               |    |          | ND                |       |
| 71 Chlorodibromomethane        | 129 |           | 15.807        |               |    |          | ND                |       |
| 72 Ethylene Dibromide          | 107 |           | 16.069        |               |    |          | ND                |       |
| * 74 Chlorobenzene-d5          | 117 | 16.978    | 16.984        | -0.006        | 90 | 982684   | 10.0              |       |
| 75 Chlorobenzene               | 112 |           | 17.042        |               |    |          | ND                |       |
| 76 Ethylbenzene                | 91  |           | 17.208        |               |    |          | ND                | U     |
| 78 m-Xylene & p-Xylene         | 106 |           | 17.465        |               |    |          | ND                | U     |
| 79 o-Xylene                    | 106 |           | 18.316        |               |    |          | ND                |       |
| 80 Styrene                     | 104 |           | 18.369        |               |    |          | ND                |       |
| 81 Bromoform                   | 173 |           | 18.808        |               |    |          | ND                |       |
| 82 Isopropylbenzene            | 105 |           | 19.065        |               |    |          | ND                |       |
| S 73 Xylenes, Total            | 106 |           | 19.600        |               |    |          | ND                |       |
| 84 1,1,2,2-Tetrachloroethane   | 83  |           | 19.787        |               |    |          | ND                |       |
| 85 N-Propylbenzene             | 91  |           | 19.867        |               |    |          | ND                | U     |
| 89 2-Chlorotoluene             | 91  |           | 20.070        |               |    |          | ND                | U     |
| 88 4-Ethyltoluene              | 105 |           | 20.076        |               |    |          | ND                | U     |
| 90 1,3,5-Trimethylbenzene      | 105 |           | 20.193        |               |    |          | ND                | U     |
| 92 tert-Butylbenzene           | 119 |           | 20.712        |               |    |          | ND                | U     |
| 93 1,2,4-Trimethylbenzene      | 105 |           | 20.814        |               |    |          | ND                | U     |
| 94 sec-Butylbenzene            | 105 |           | 21.060        |               |    |          | ND                | U     |
| 95 4-Isopropyltoluene          | 119 |           | 21.279        |               |    |          | ND                |       |
| 96 1,3-Dichlorobenzene         | 146 | 21.290    | 21.283        | 0.000         | 1  | 827      | 0.0132            |       |
| 97 1,4-Dichlorobenzene         | 146 | 21.429    | 21.428        | -0.005        | 1  | 822      | 0.0134            |       |
| 98 Benzyl chloride             | 91  |           | 21.638        |               |    |          | ND                | U     |
| 100 n-Butylbenzene             | 91  |           | 21.868        |               |    |          | ND                | U     |
| 101 1,2-Dichlorobenzene        | 146 |           | 21.964        |               |    |          | ND                | U     |
| 103 1,2,4-Trichlorobenzene     | 180 | 24.355    | 24.348        | 0.000         | 1  | 1098     | 0.0315            |       |
| 104 Hexachlorobutadiene        | 225 |           | 24.548        |               |    |          | ND                | U     |
| 105 Naphthalene                | 128 | 24.810    | 24.810        | 0.011         | 1  | 2309     | 0.0372            | M     |

### QC Flag Legend

#### Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

ATTO15GIS\_00015

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D

Injection Date: 01-Nov-2018 02:29:30

Instrument ID: CHG.i

Operator ID: wrd

Lims ID: 200-45925-A-11

Lab Sample ID: 200-45925-11

Worklist Smp#: 18

Client ID: 5621

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

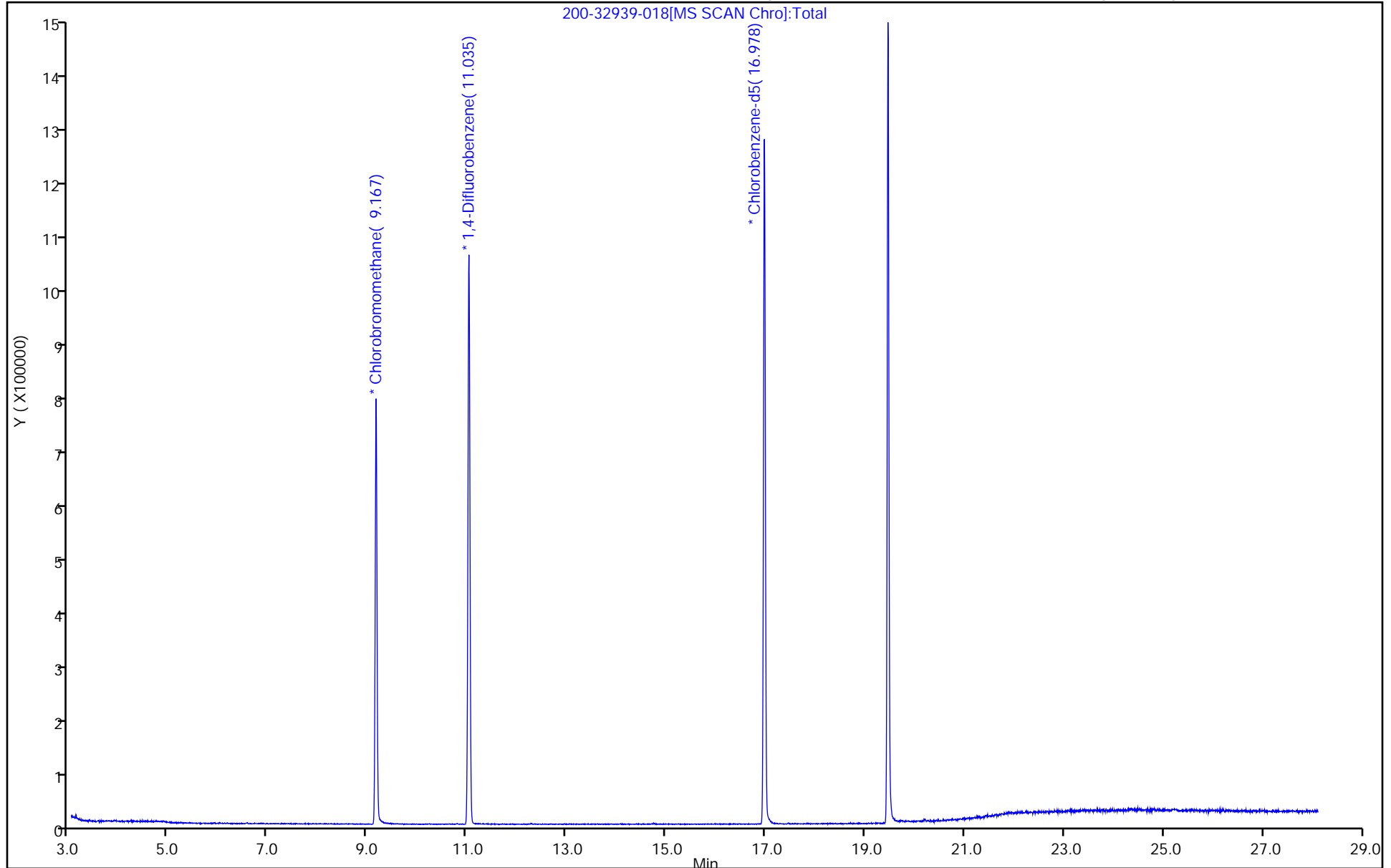
ALS Bottle#: 15

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

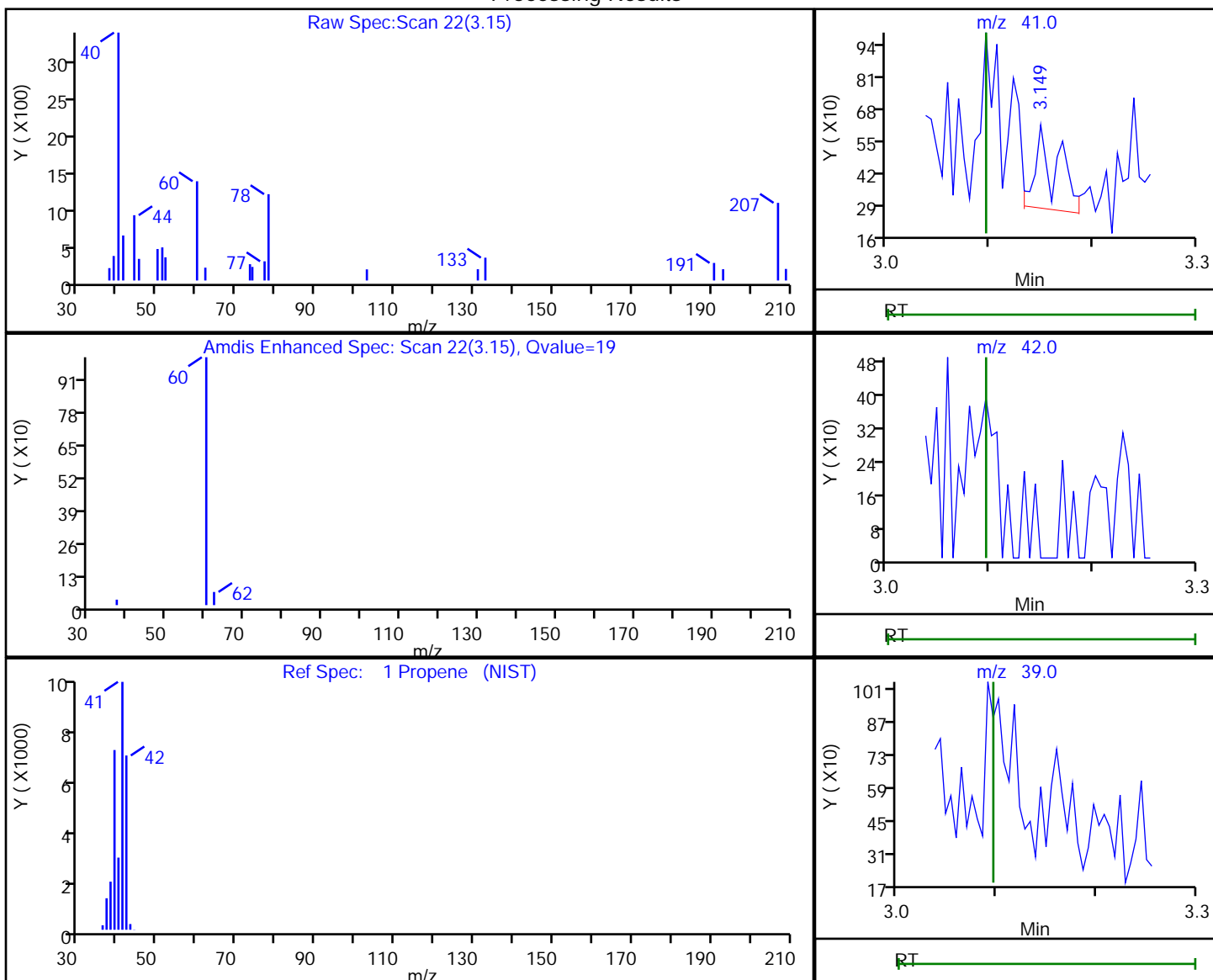


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

1 Propene, CAS: 115-07-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.15 | 41.00 | 515      | 0.031586 |
| 3.10 | 42.00 | 0        |          |
| 3.10 | 39.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:26:55

Audit Action: Marked Compound Undetected

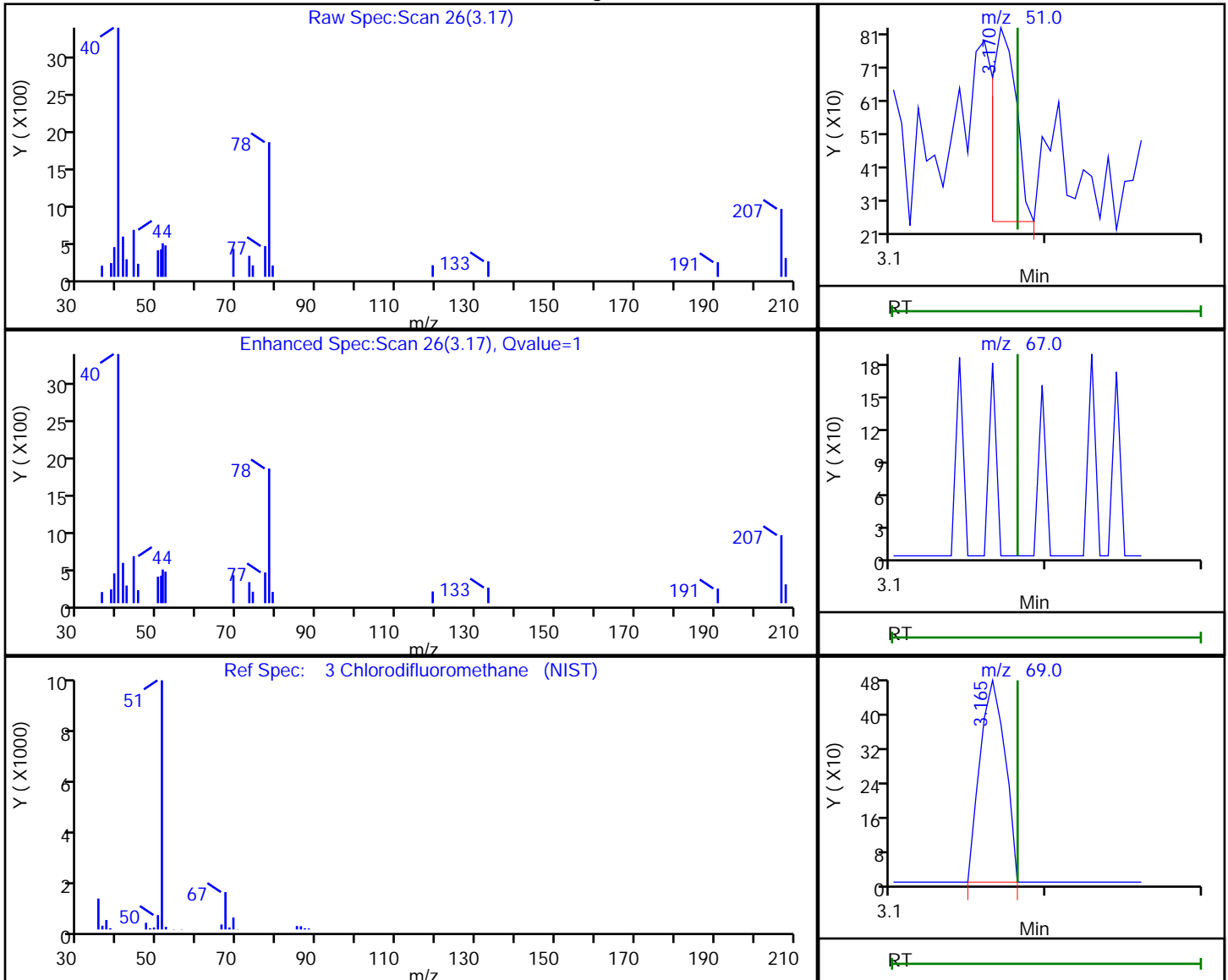
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

3 Chlorodifluoromethane, CAS: 75-45-6

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.17 | 51.00 | 623      | 0.015302 |
| 3.17 | 69.00 | 540      |          |
| 3.18 | 67.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:26:59

Audit Action: Marked Compound Undetected

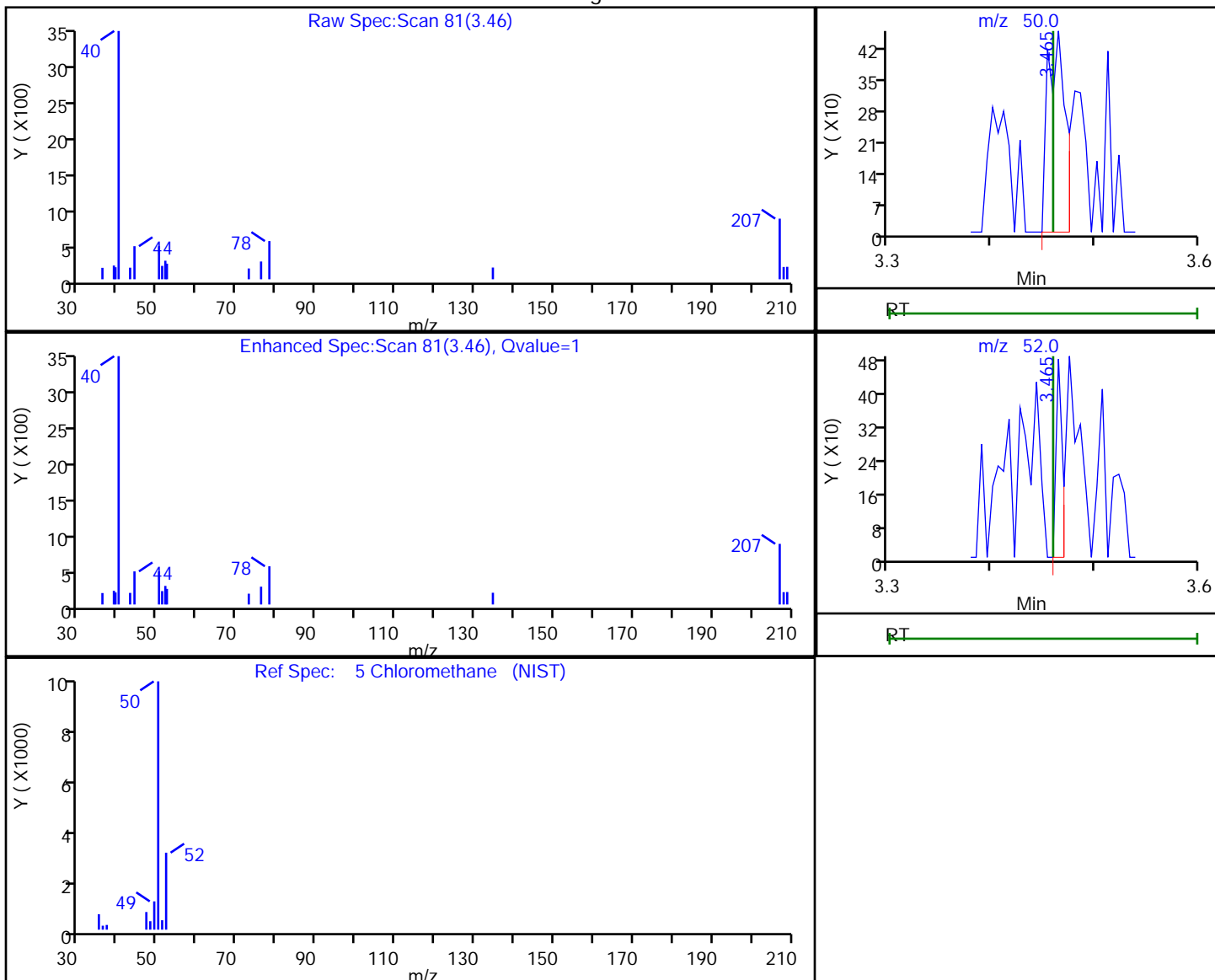
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.46 | 50.00 | 548      | 0.028974 |
| 3.46 | 52.00 | 207      |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:03

Audit Action: Marked Compound Undetected

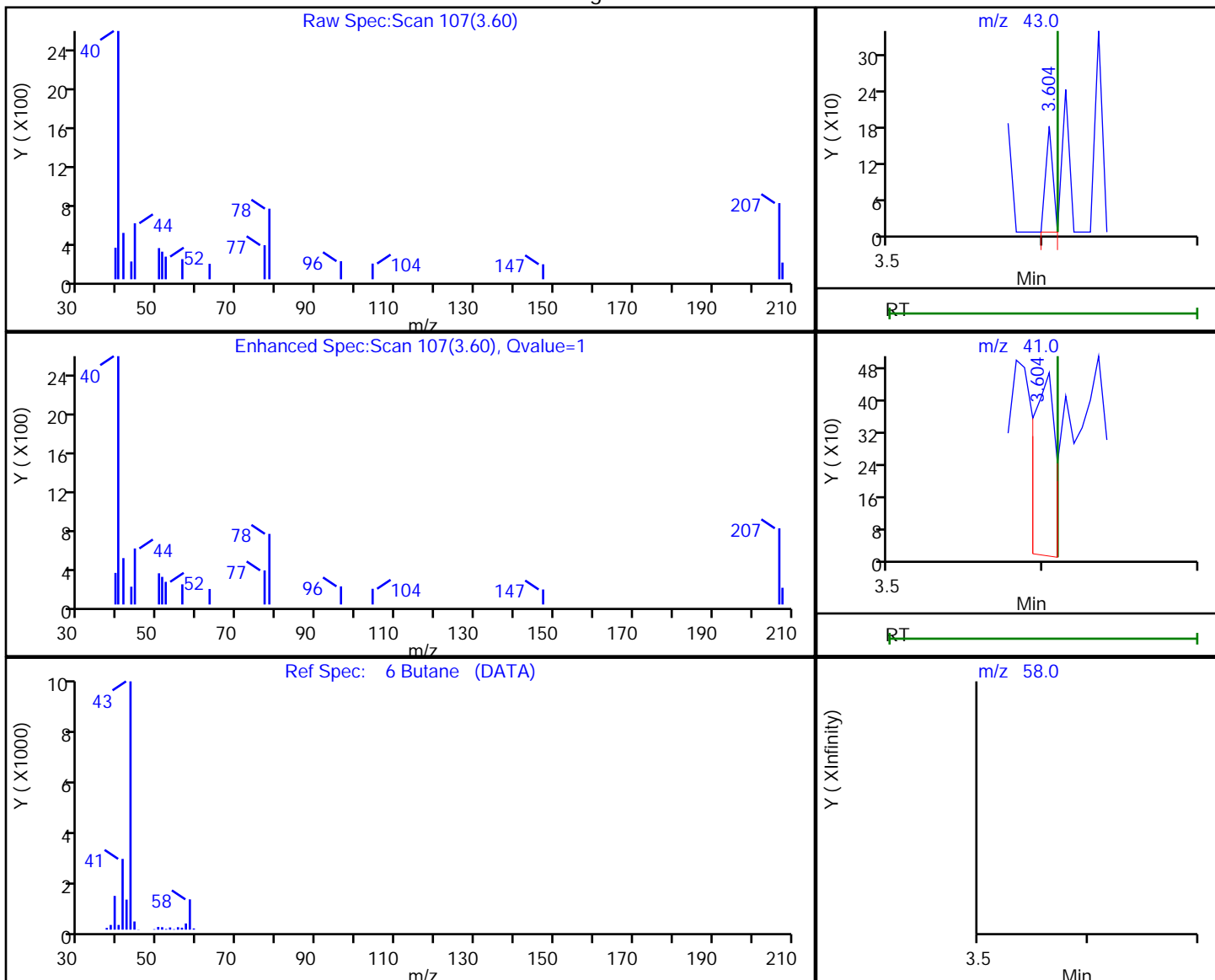
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.60 | 43.00 | 57       | 0.002265 |
| 3.60 | 41.00 | 463      |          |
| 3.61 | 58.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

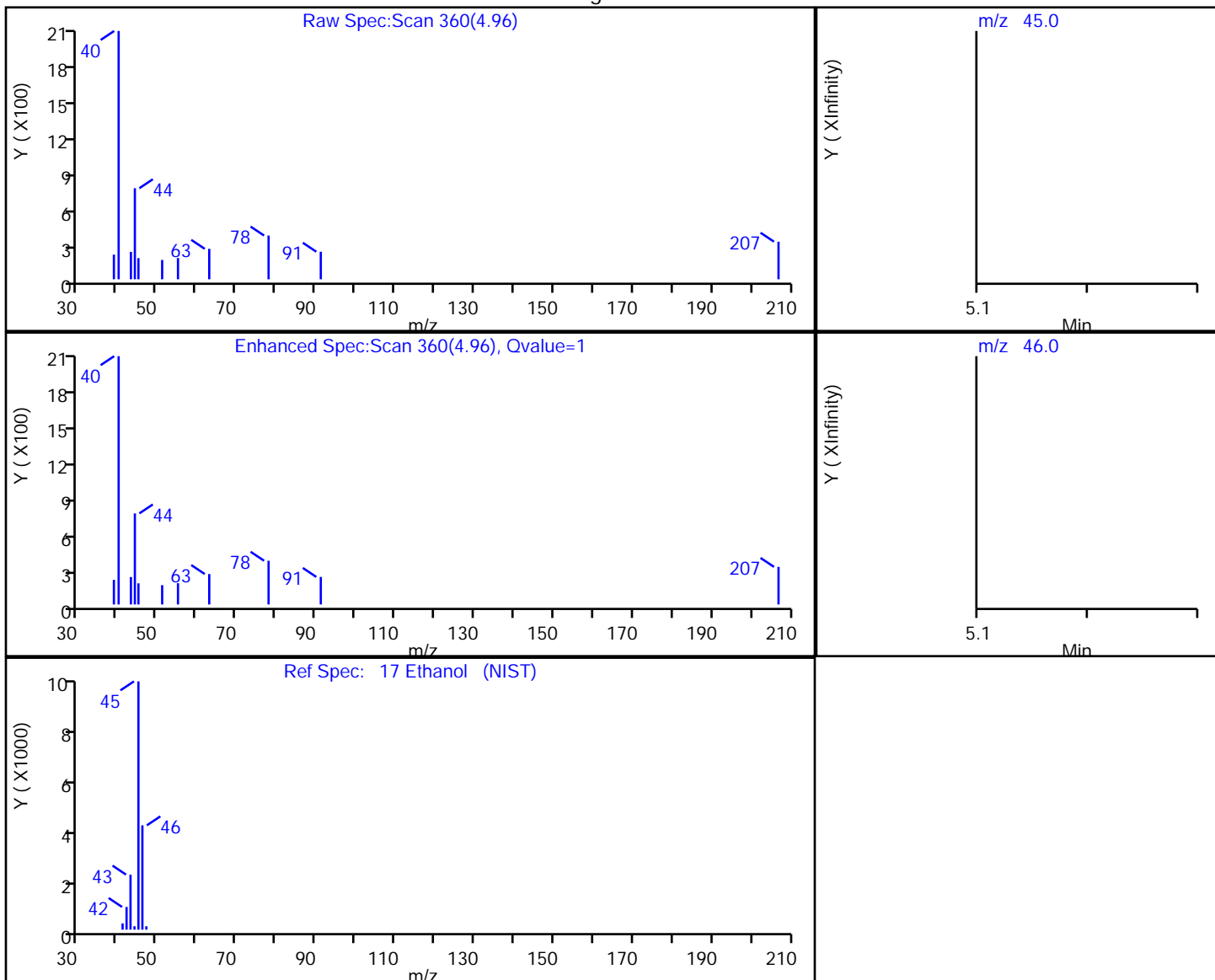


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

17 Ethanol, CAS: 64-17-5

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.96 | 45.00 | 155      | 0.023847 |
| 5.21 | 46.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:11

Audit Action: Marked Compound Undetected

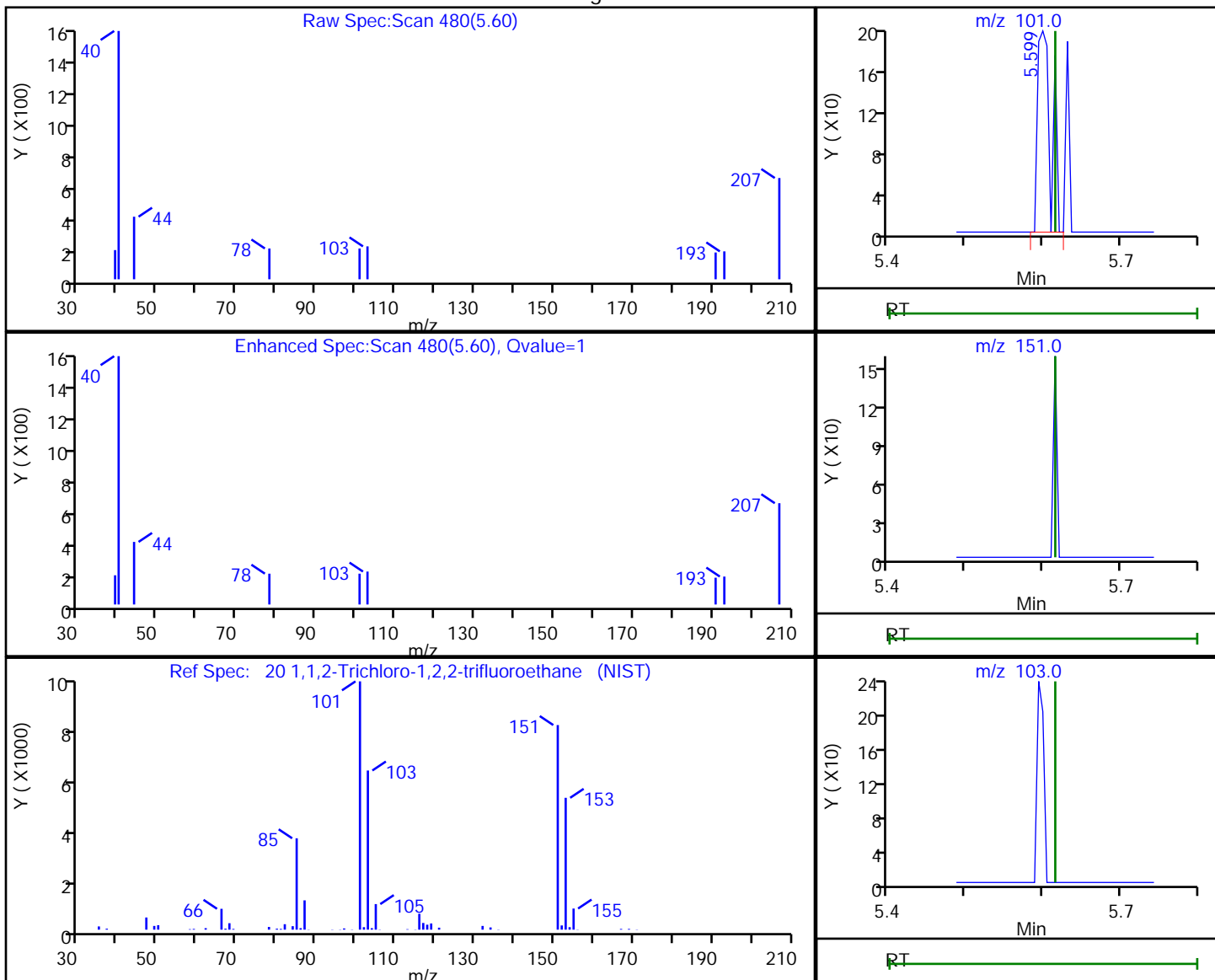
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 5.60 | 101.00 | 230      | 0.004281 |
| 5.62 | 151.00 | 0        |          |
| 5.62 | 103.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:25

Audit Action: Marked Compound Undetected

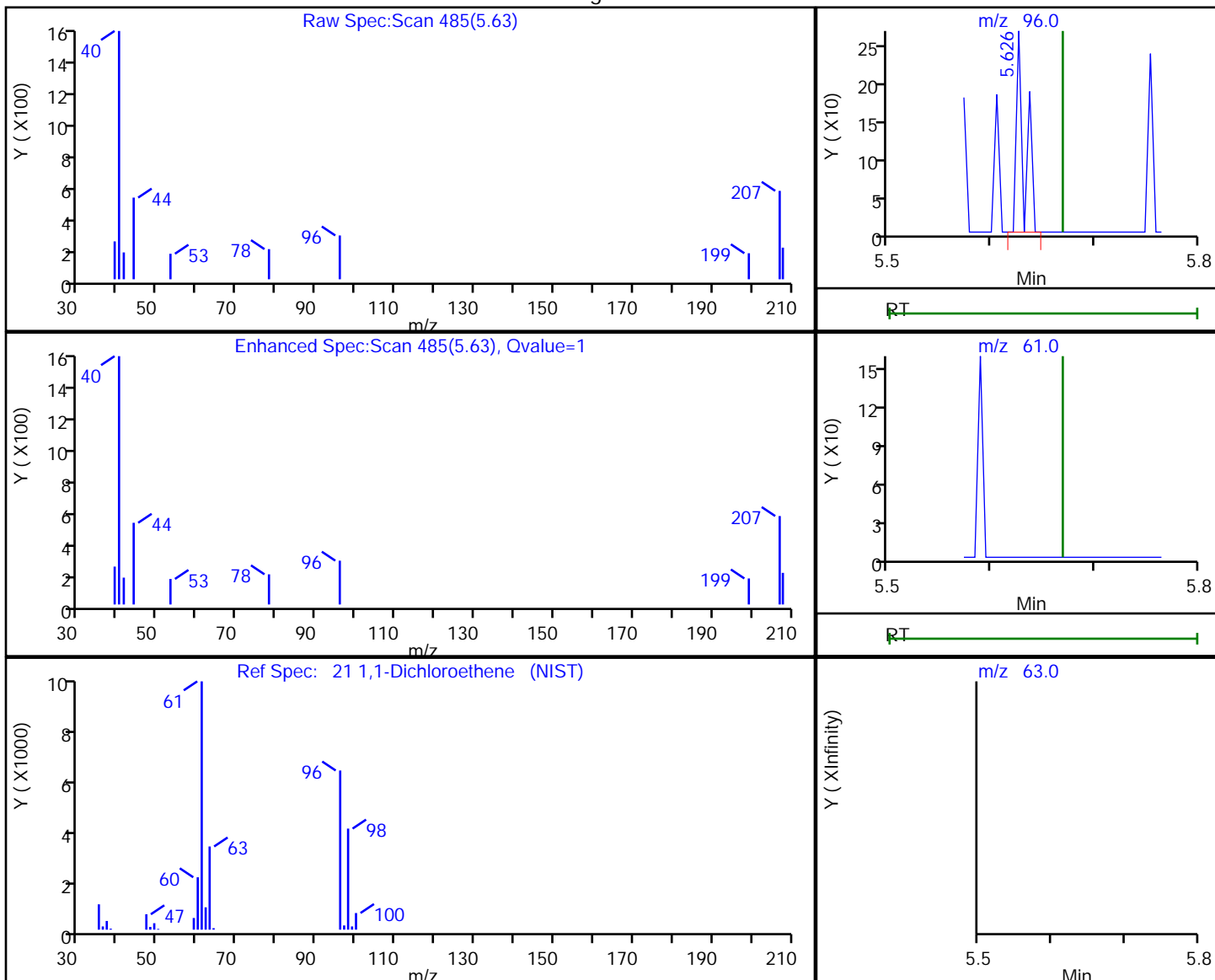
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

21 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.63 | 96.00 | 145      | 0.006194 |
| 5.67 | 61.00 | 0        |          |
| 5.67 | 63.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:27

Audit Action: Marked Compound Undetected

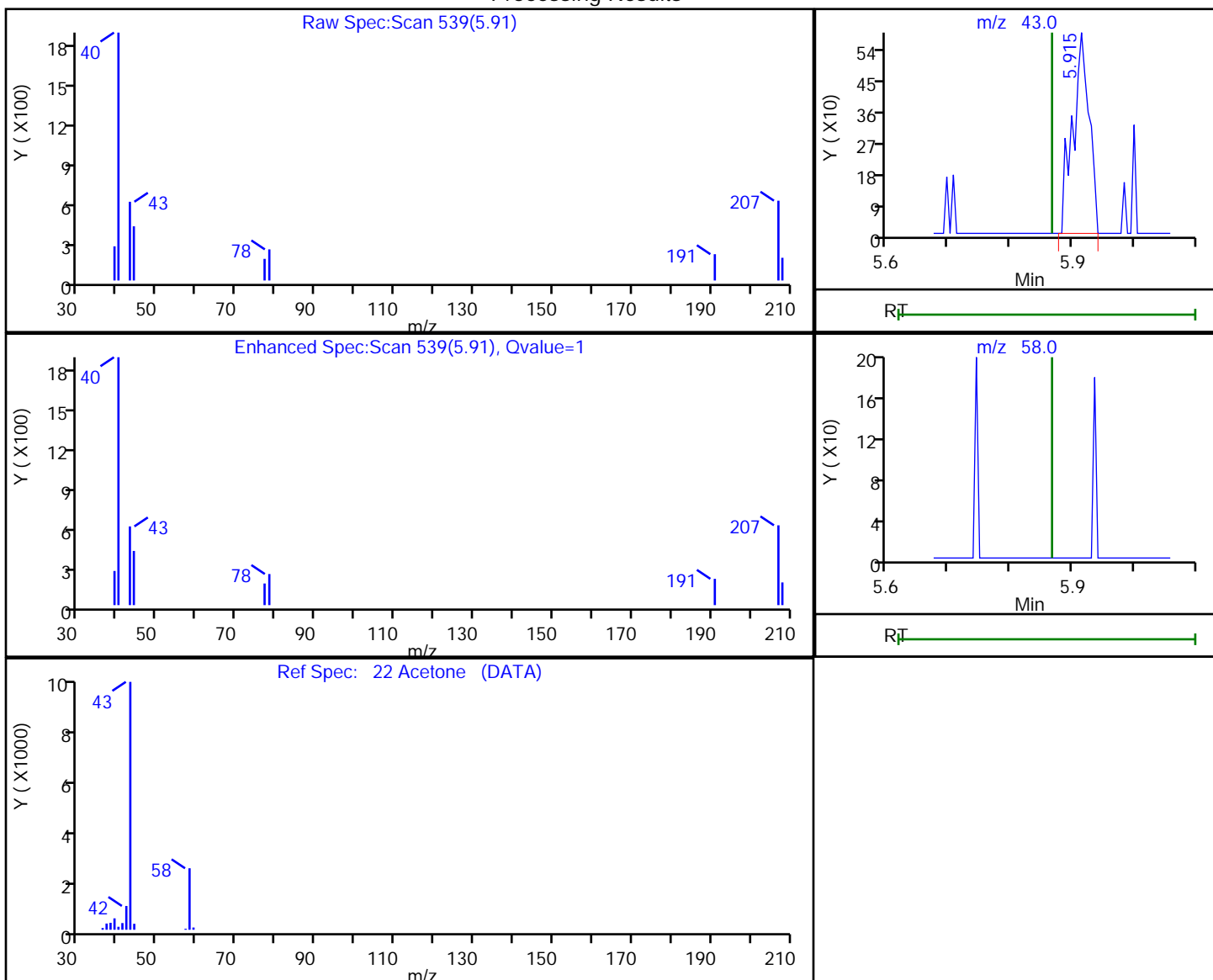
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

22 Acetone, CAS: 67-64-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.91 | 43.00 | 1091     | 0.046718 |
| 5.87 | 58.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

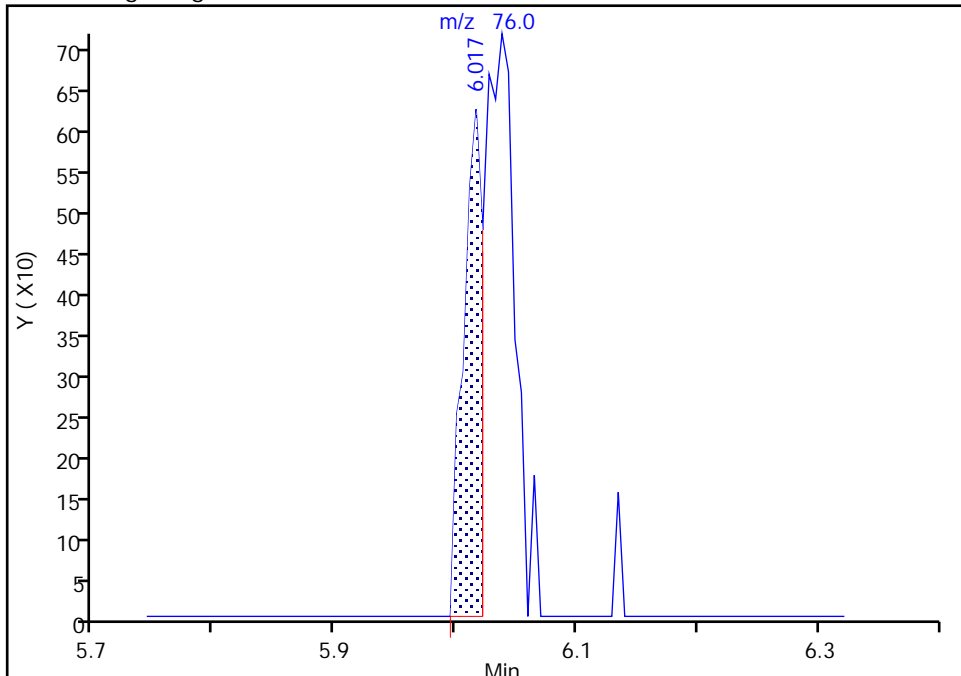
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Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

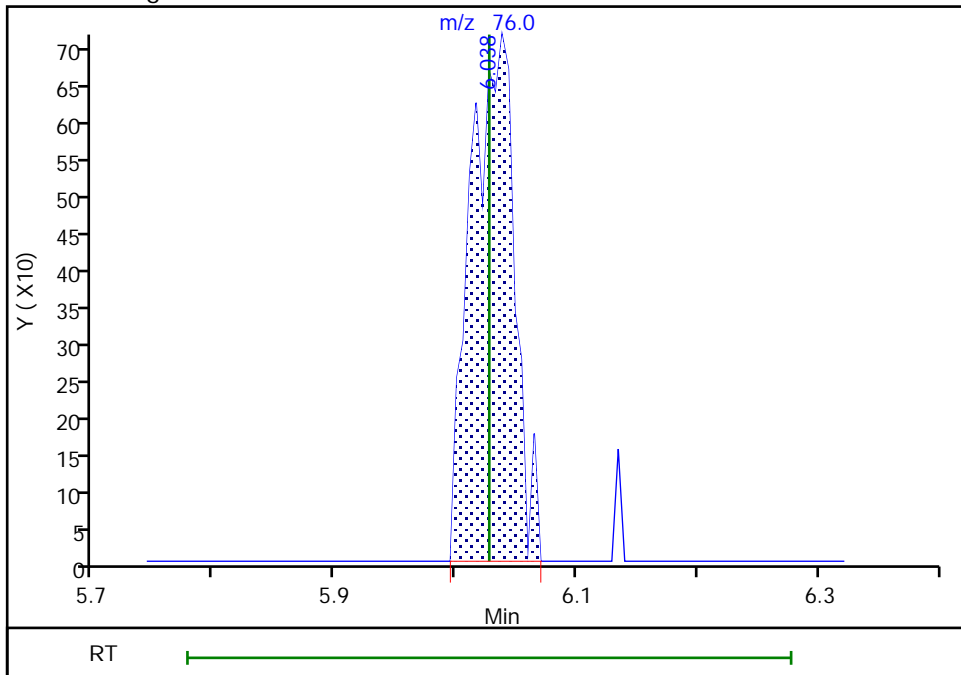
RT: 6.02  
Area: 700  
Amount: 0.011160  
Amount Units: ppb v/v

Processing Integration Results



RT: 6.04  
Area: 1819  
Amount: 0.029000  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 01-Nov-2018 14:27:37  
Audit Action: Manually Integrated

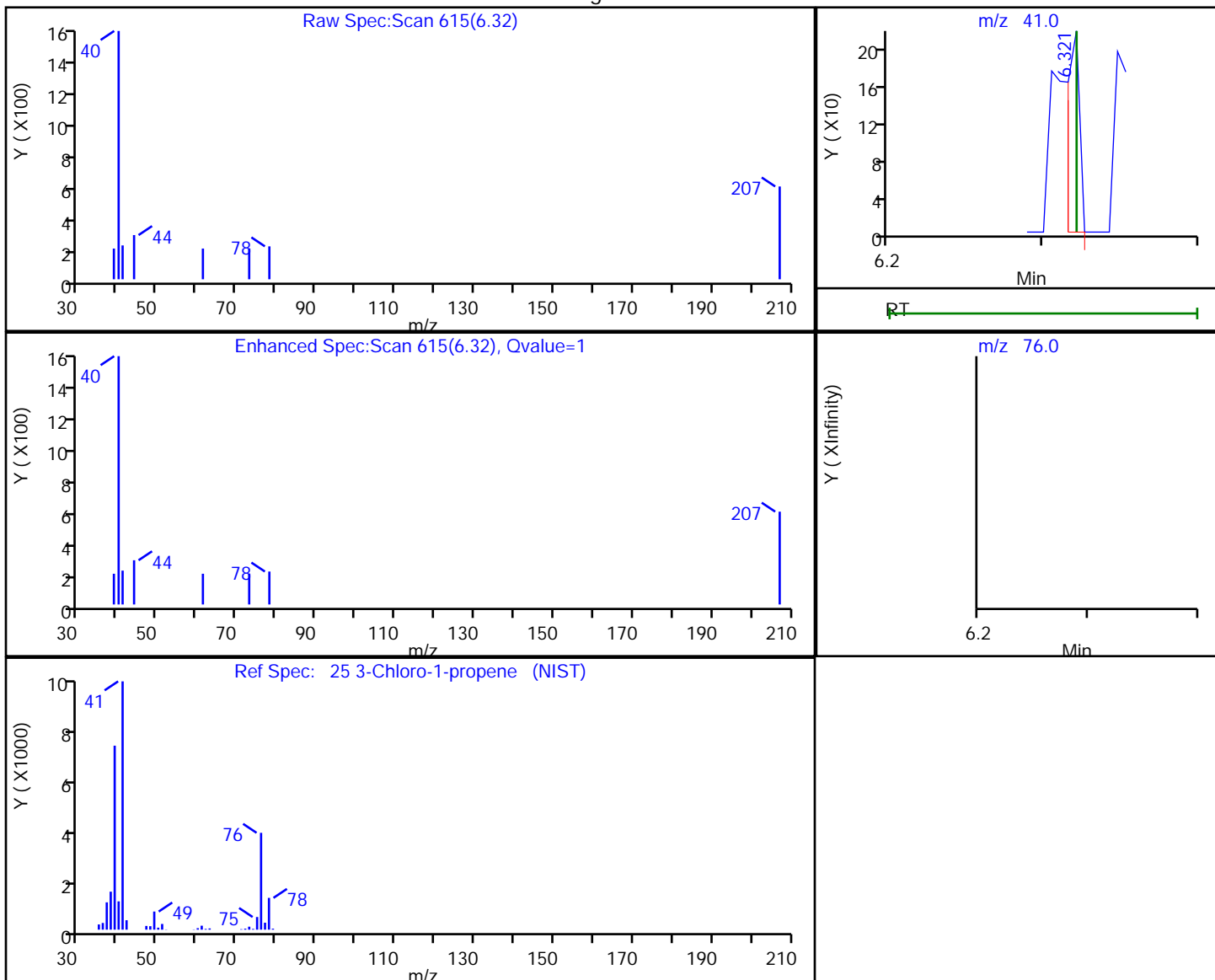
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

25 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.32 | 41.00 | 121      | 0.006565 |
| 6.32 | 76.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:41

Audit Action: Marked Compound Undetected

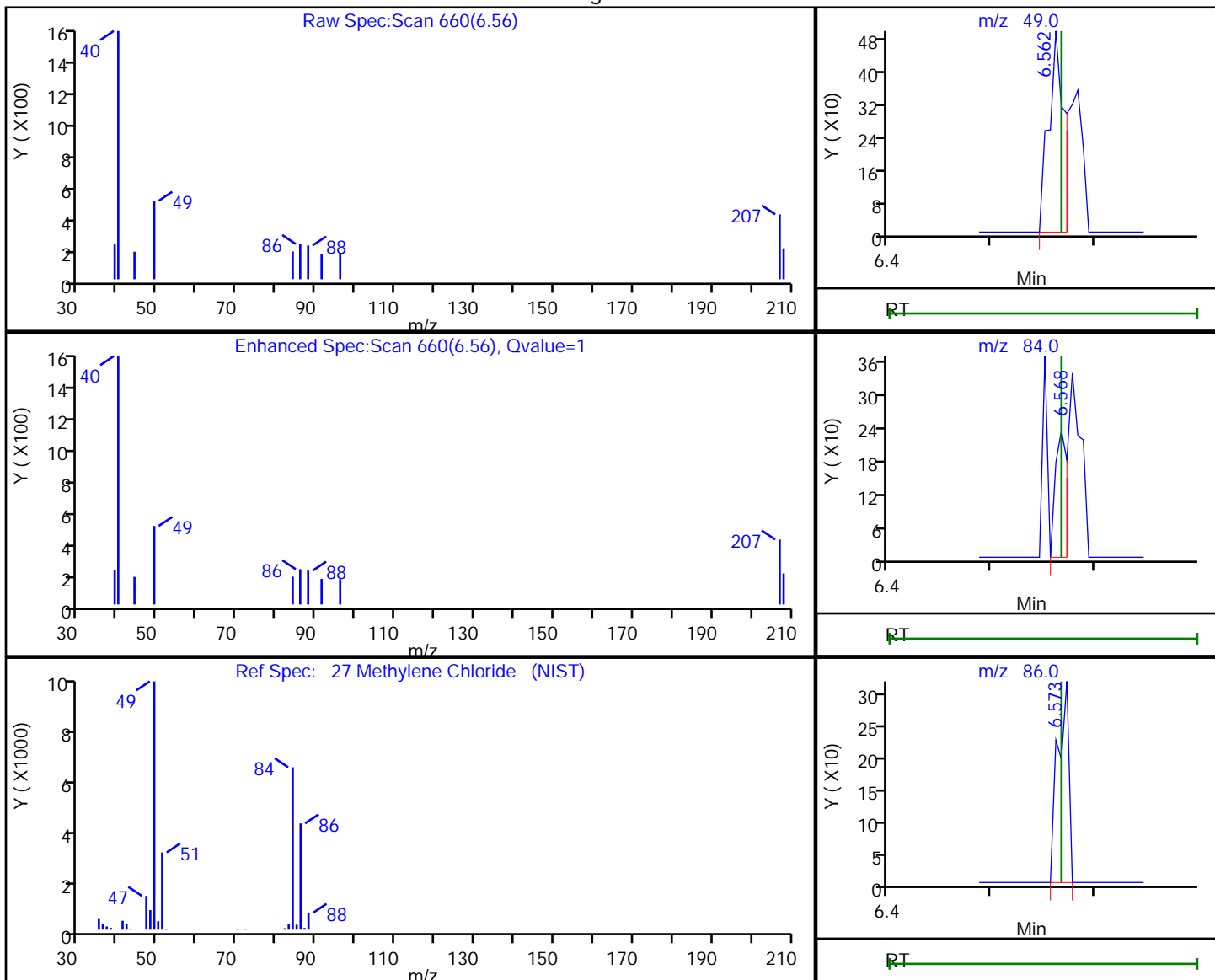
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.56 | 49.00 | 509      | 0.023415 |
| 6.57 | 84.00 | 187      |          |
| 6.57 | 86.00 | 232      |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D

Injection Date: 01-Nov-2018 02:29:30

Instrument ID: CHG.i

Lims ID: 200-45925-A-11

Lab Sample ID: 200-45925-11

Client ID: 5621

Operator ID: wrd

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

Method: TO15\_MasterMethod\_(v1)\_G

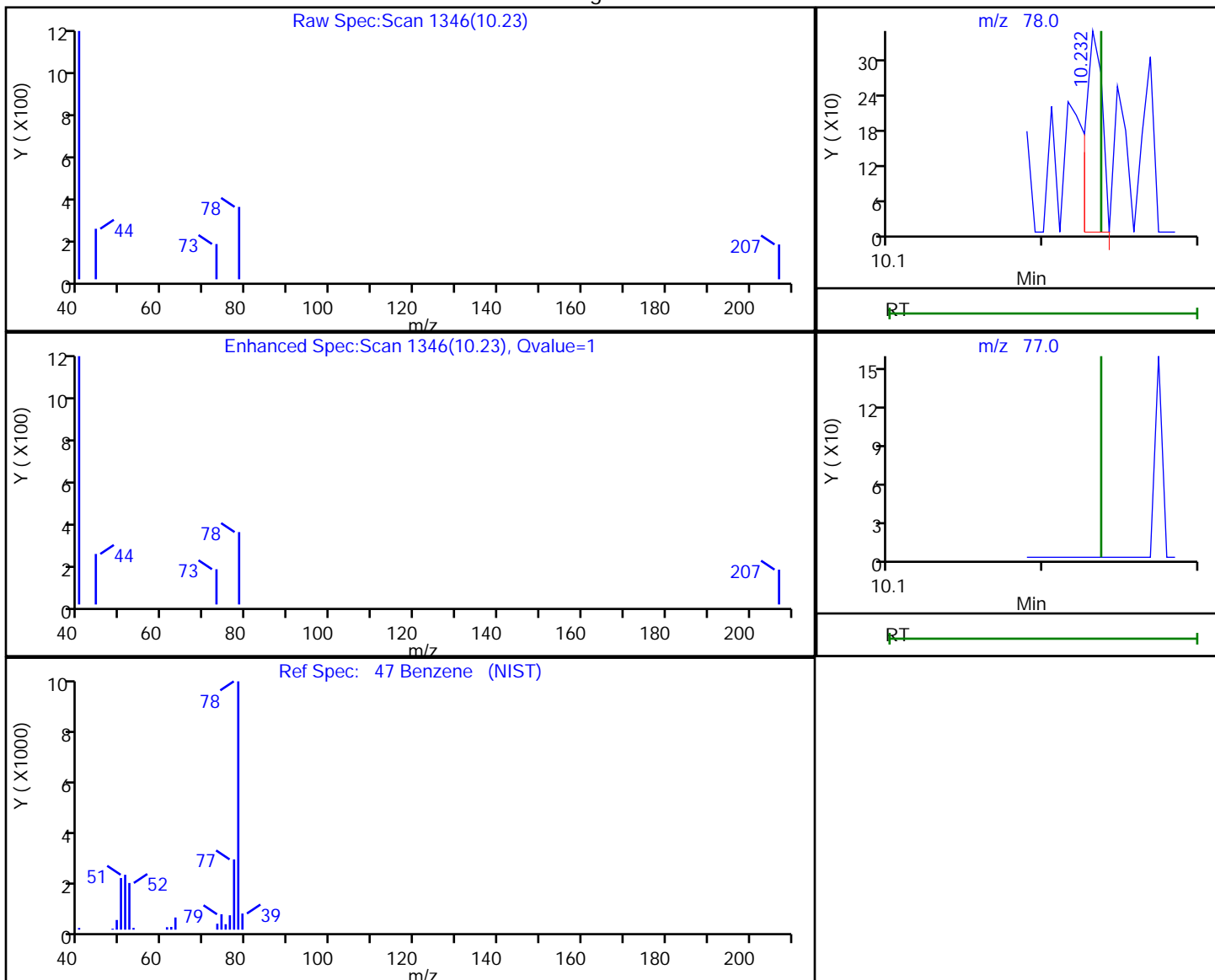
Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.23 | 78.00 | 249      | 0.003936 |
| 10.24 | 77.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:27:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D

Injection Date: 01-Nov-2018 02:29:30

Instrument ID: CHG.i

Lims ID: 200-45925-A-11

Lab Sample ID: 200-45925-11

Client ID: 5621

Operator ID: wrd

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

Method: TO15\_MasterMethod\_(v1)\_G

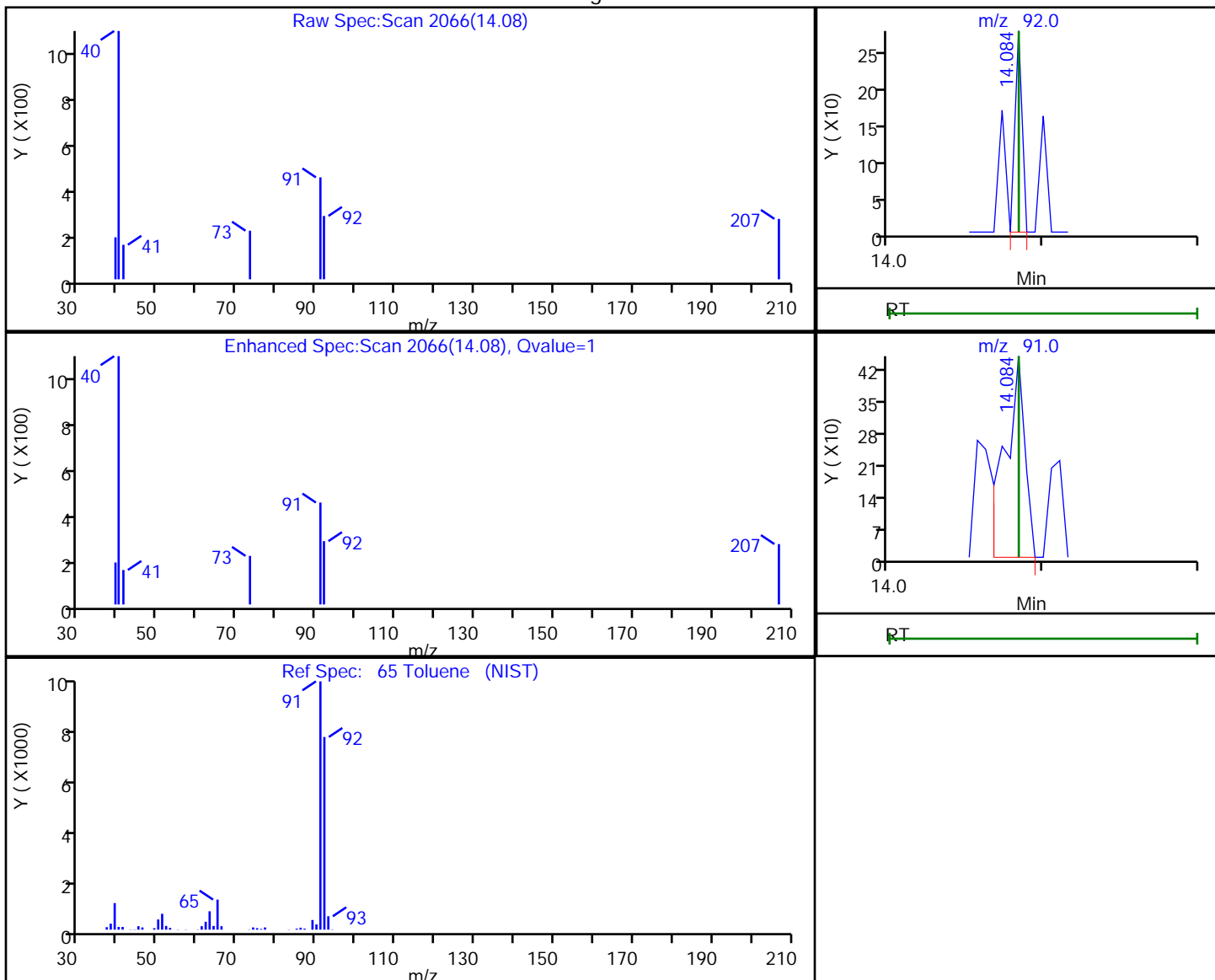
Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Detector: MS SCAN

65 Toluene, CAS: 108-88-3

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 14.08 | 92.00 | 90       | 0.002067 |
| 14.08 | 91.00 | 407      |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:01

Audit Action: Marked Compound Undetected

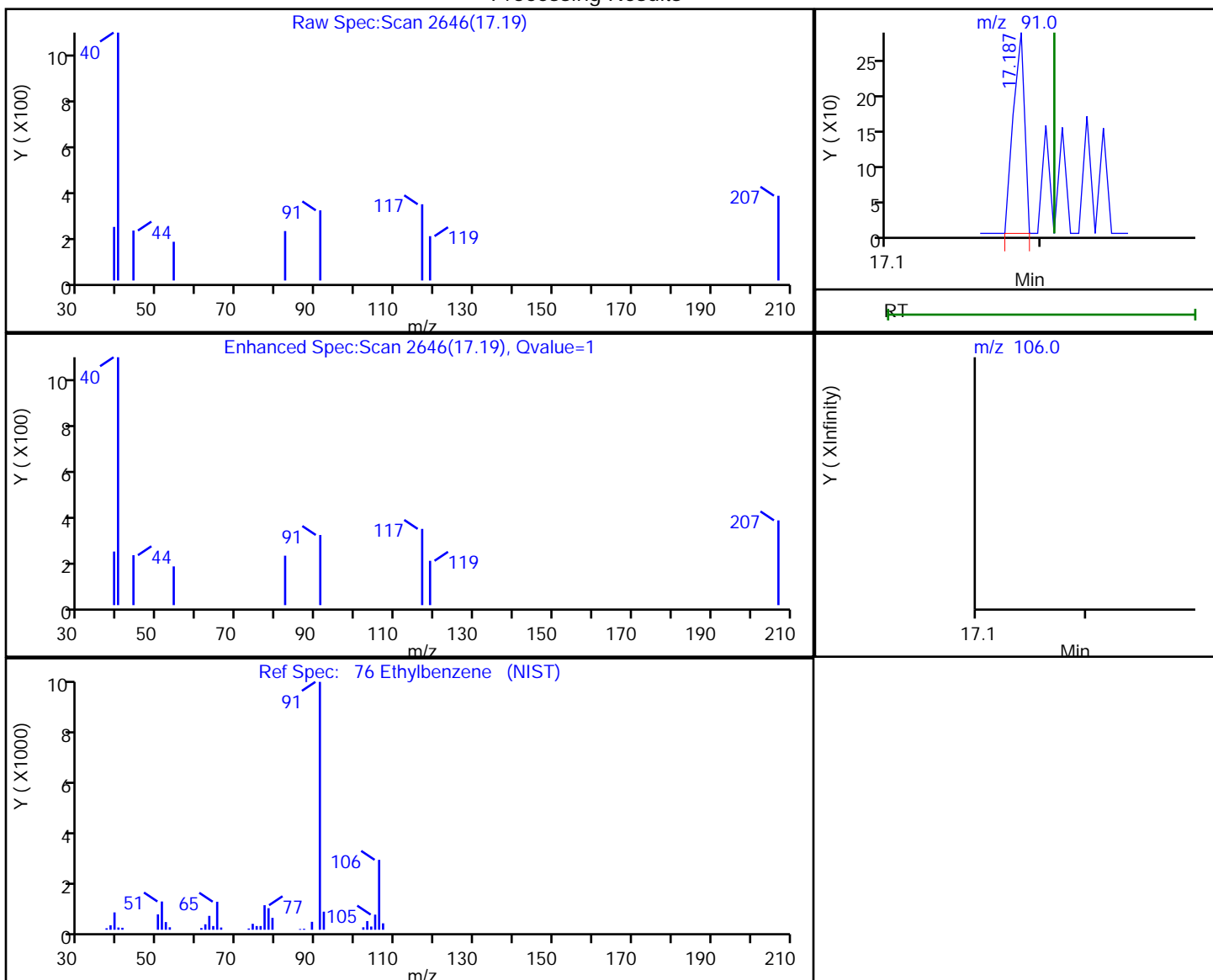
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.19 | 91.00  | 147      | 0.001554 |
| 17.21 | 106.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:12

Audit Action: Marked Compound Undetected

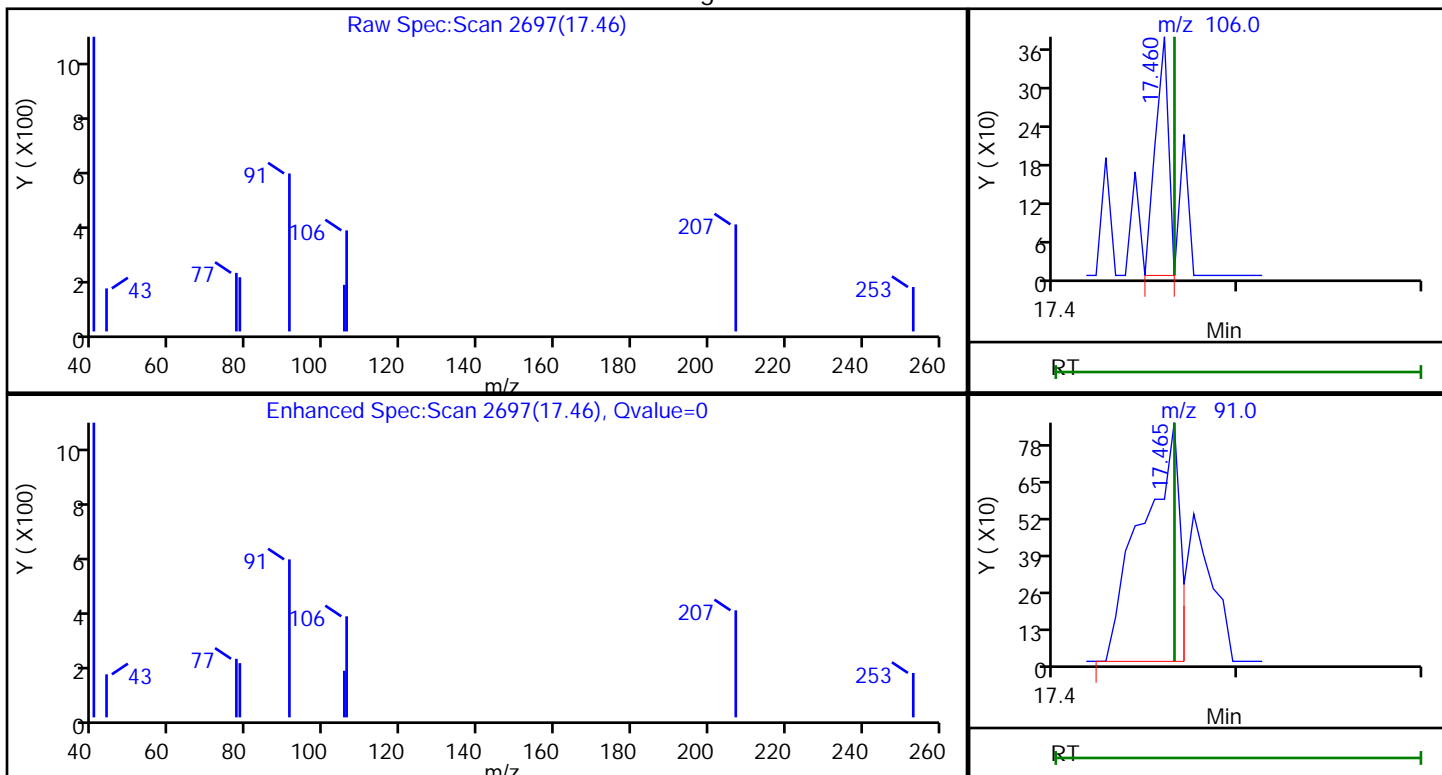
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 17.46 | 106.00 | 183      | 0.004836 |
| 17.46 | 91.00  | 1227     |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:14

Audit Action: Marked Compound Undetected

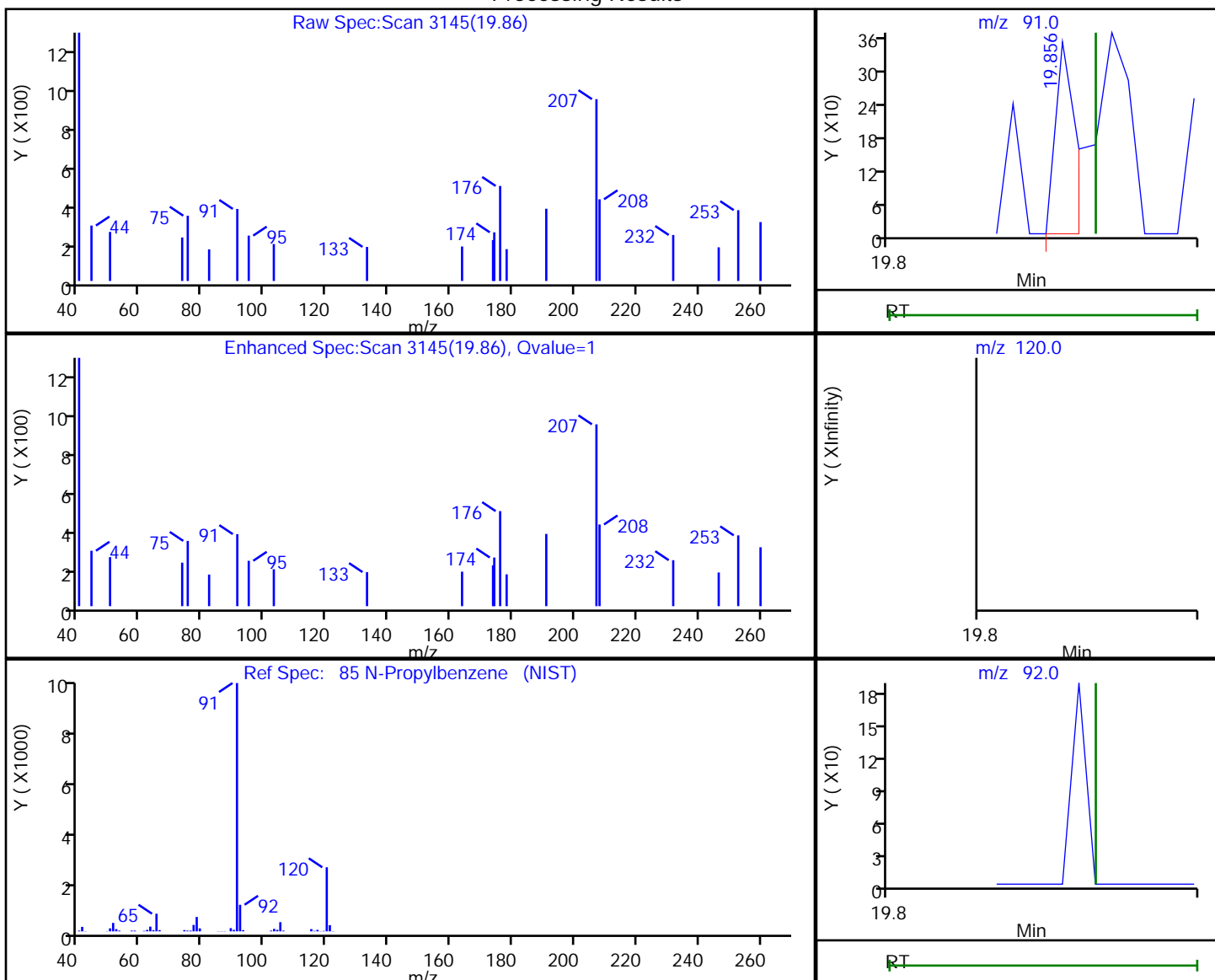
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 N-Propylbenzene, CAS: 103-65-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 19.86 | 91.00  | 162      | 0.001350 |
| 19.87 | 120.00 | 0        |          |
| 19.87 | 92.00  | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:18

Audit Action: Marked Compound Undetected

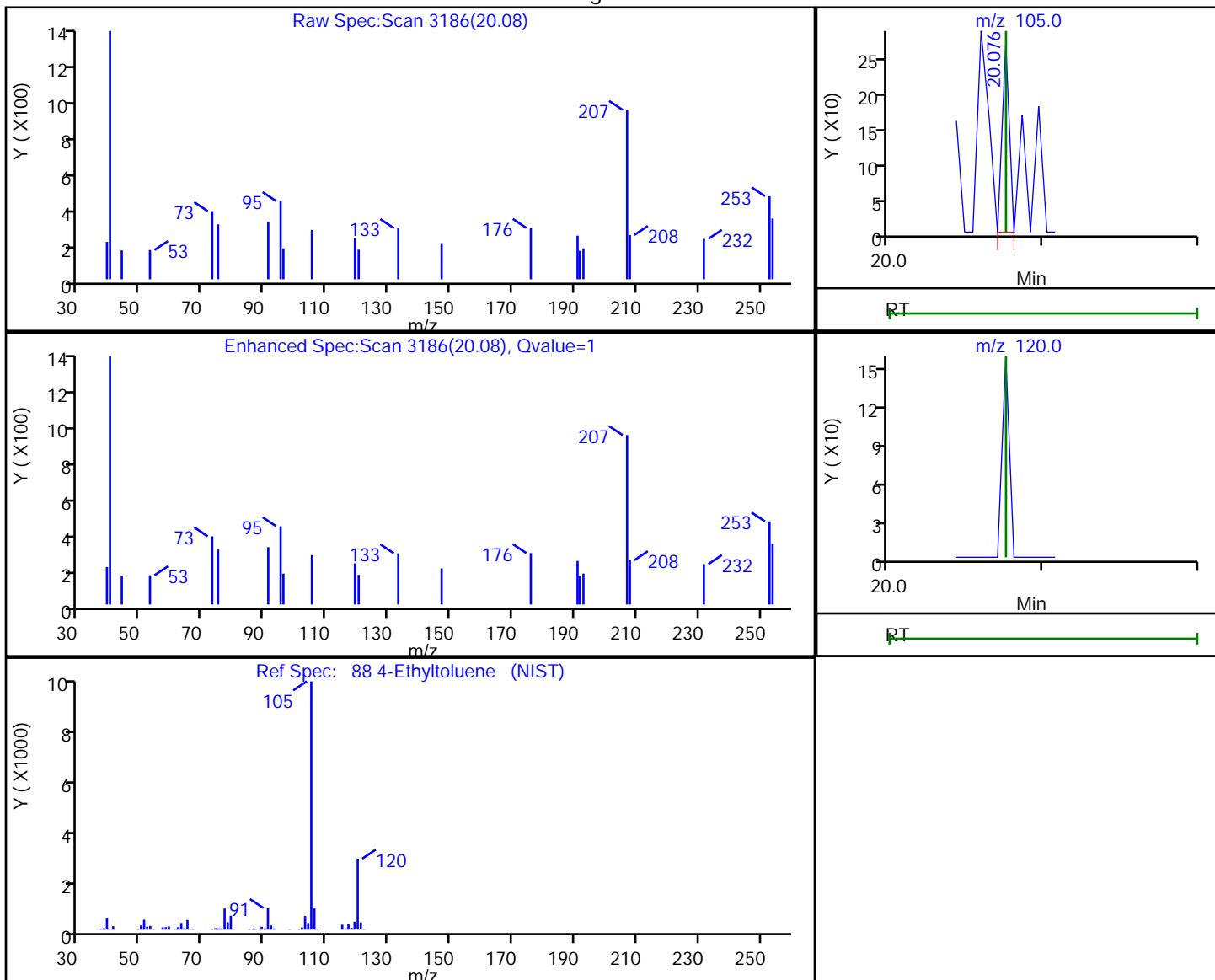
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

88 4-Ethyltoluene, CAS: 622-96-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.08 | 105.00 | 85       | 0.000879 |
| 20.08 | 120.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:21

Audit Action: Marked Compound Undetected

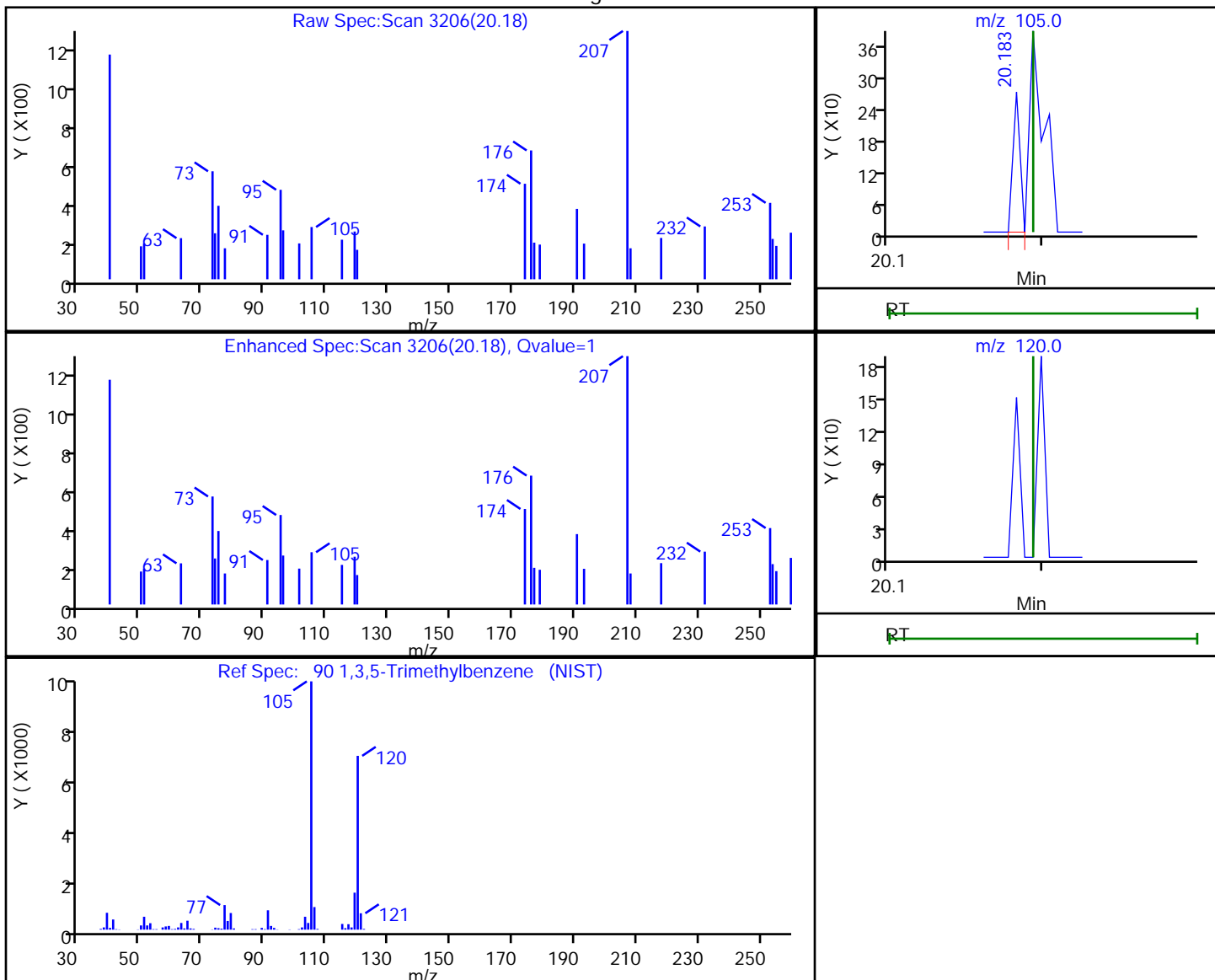
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.18 | 105.00 | 86       | 0.001020 |
| 20.19 | 120.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:24

Audit Action: Marked Compound Undetected

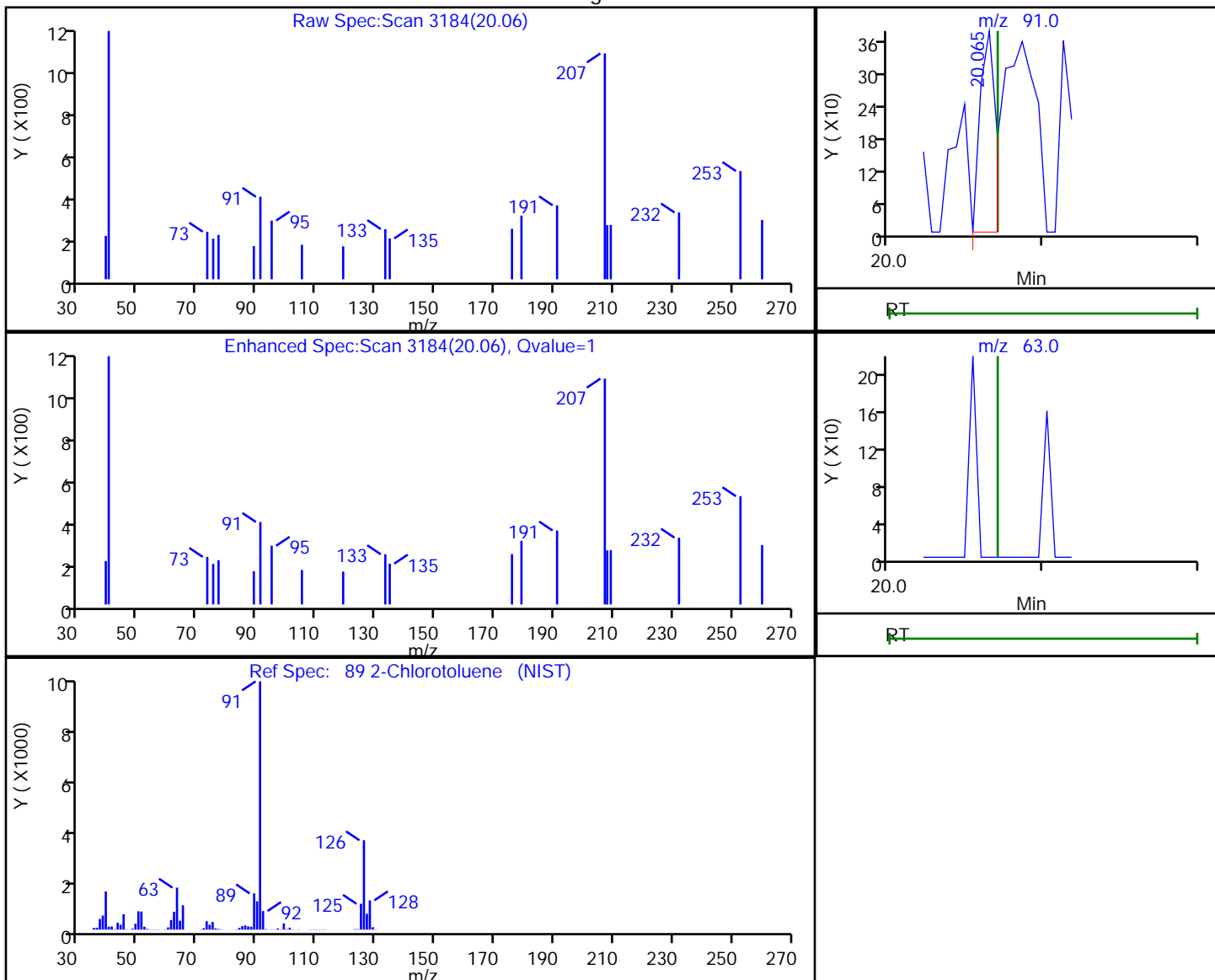
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 2-Chlorotoluene, CAS: 95-49-8

Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 20.06 | 91.00 | 268      | 0.003045 |
| 20.07 | 63.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:20

Audit Action: Marked Compound Undetected

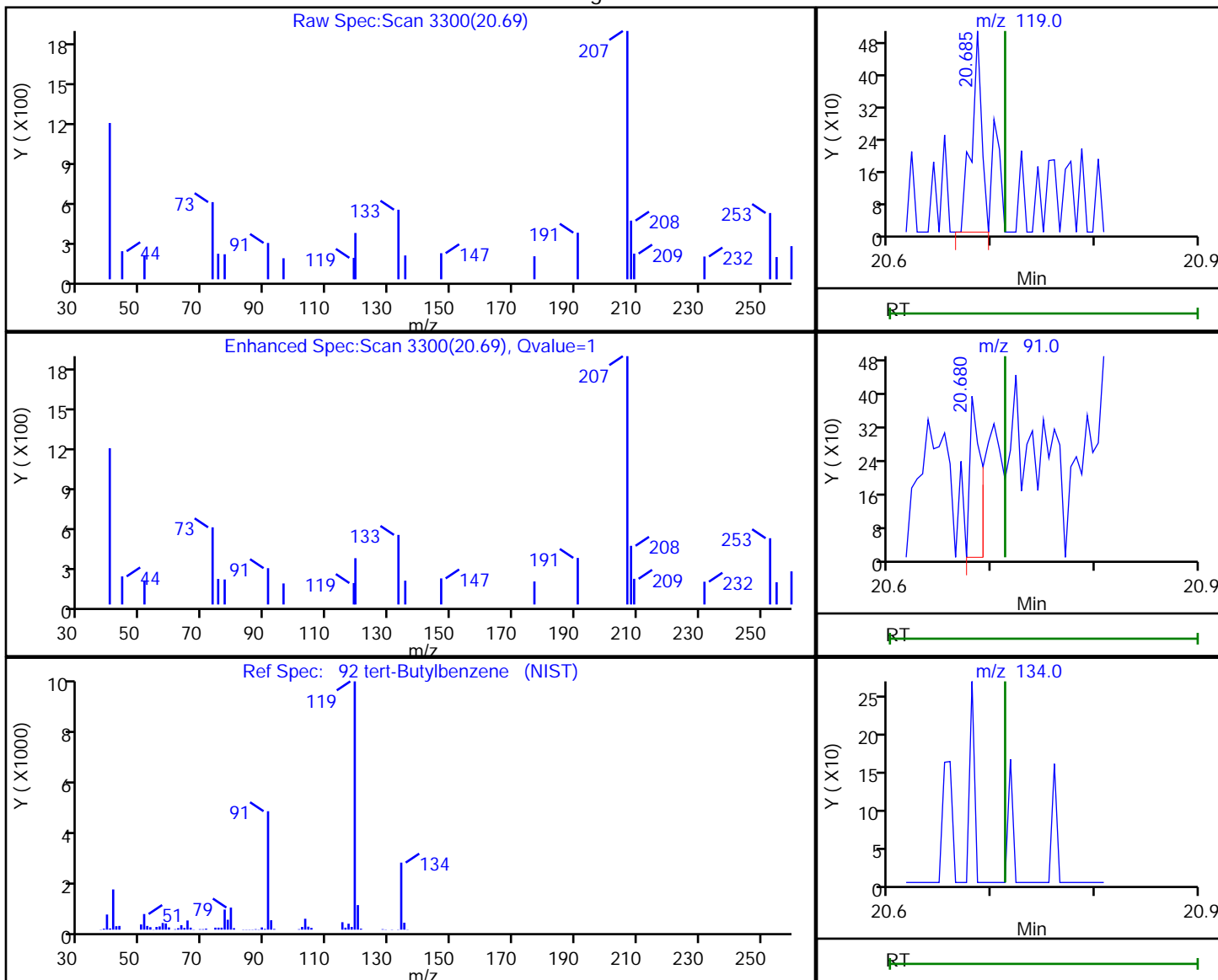
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 tert-Butylbenzene, CAS: 98-06-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.69 | 119.00 | 347      | 0.004299 |
| 20.68 | 91.00  | 281      |          |
| 20.71 | 134.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

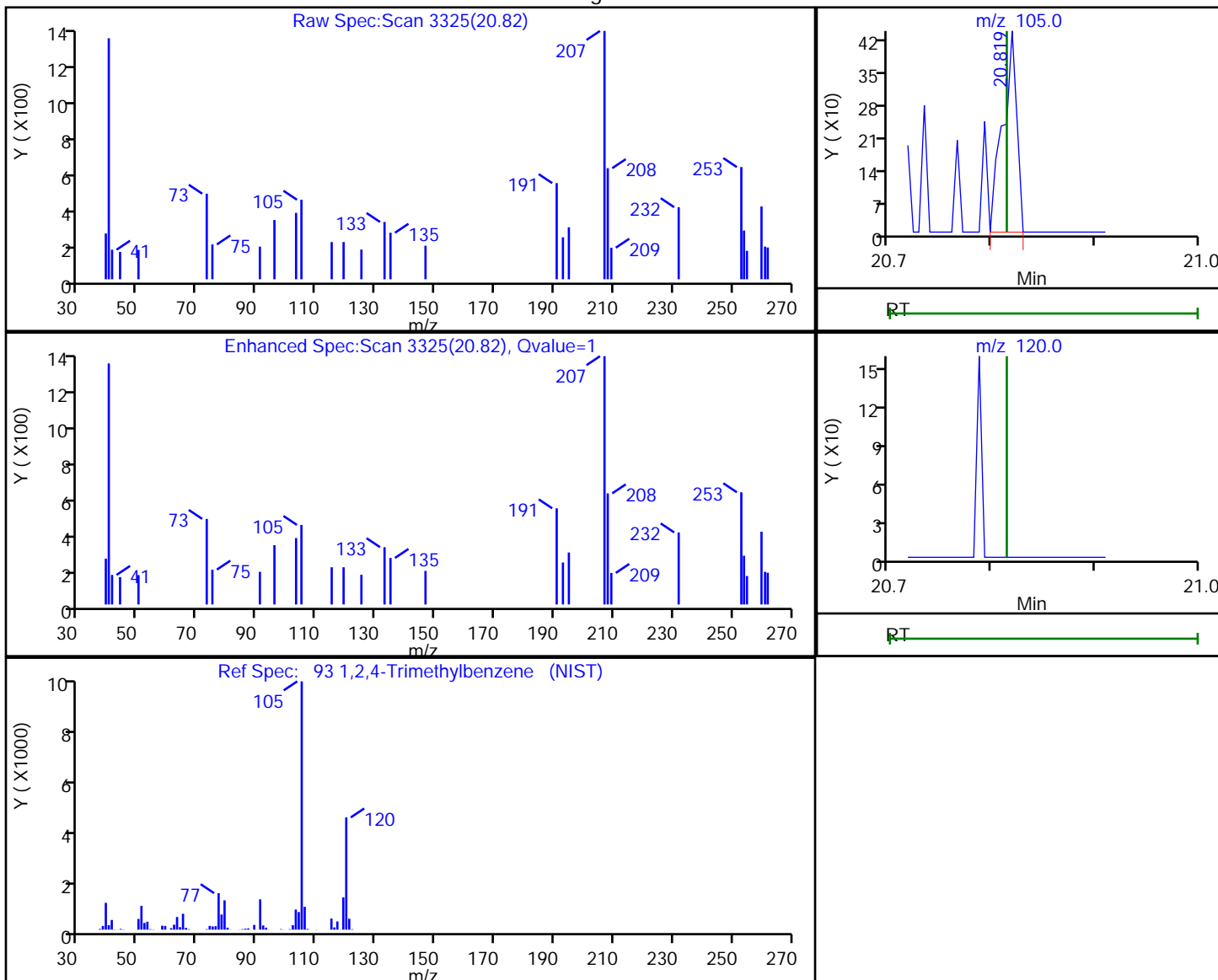


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 20.82 | 105.00 | 410      | 0.005045 |
| 20.81 | 120.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:26

Audit Action: Marked Compound Undetected

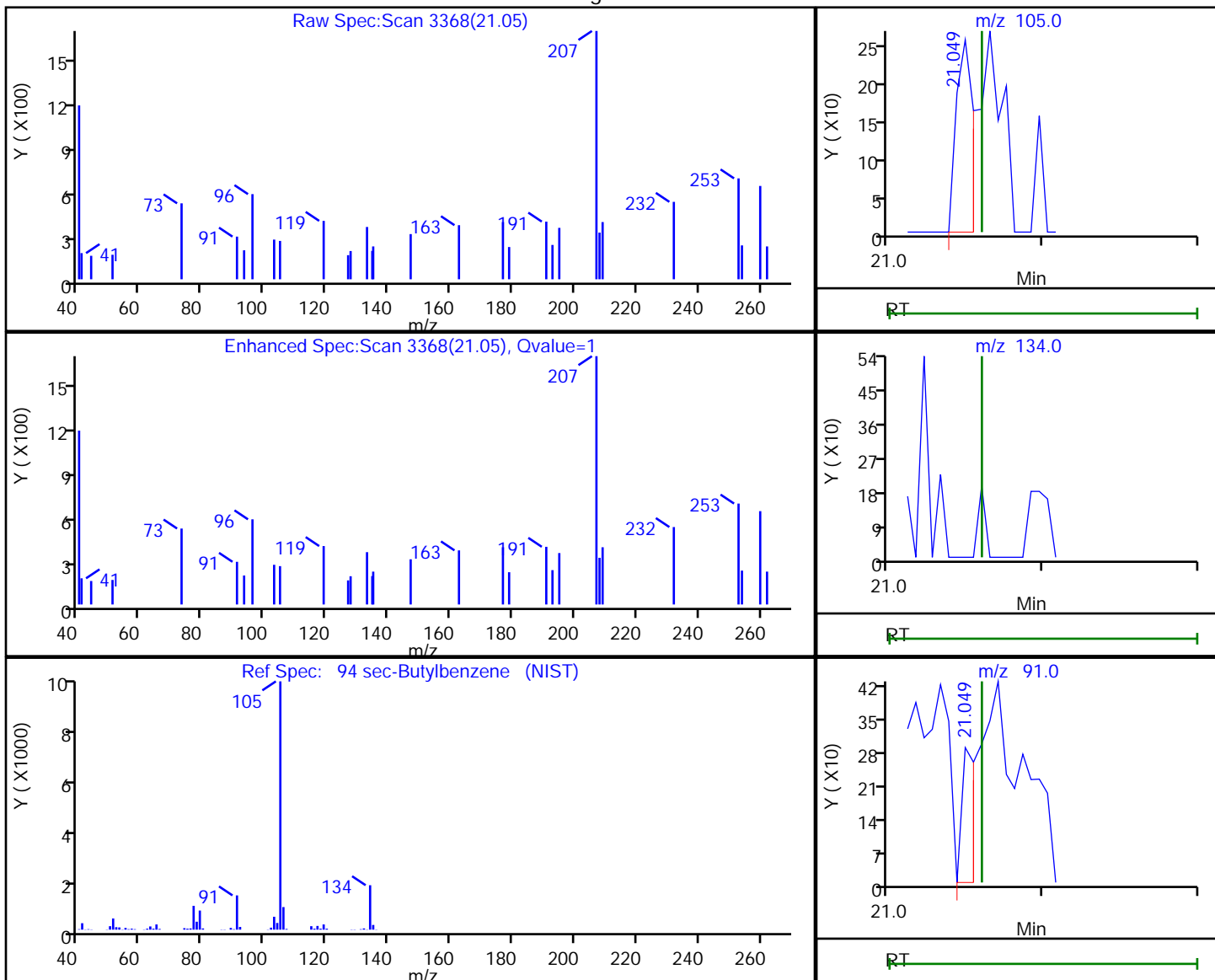
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 sec-Butylbenzene, CAS: 135-98-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.05 | 105.00 | 195      | 0.001660 |
| 21.05 | 91.00  | 174      |          |
| 21.06 | 134.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:28

Audit Action: Marked Compound Undetected

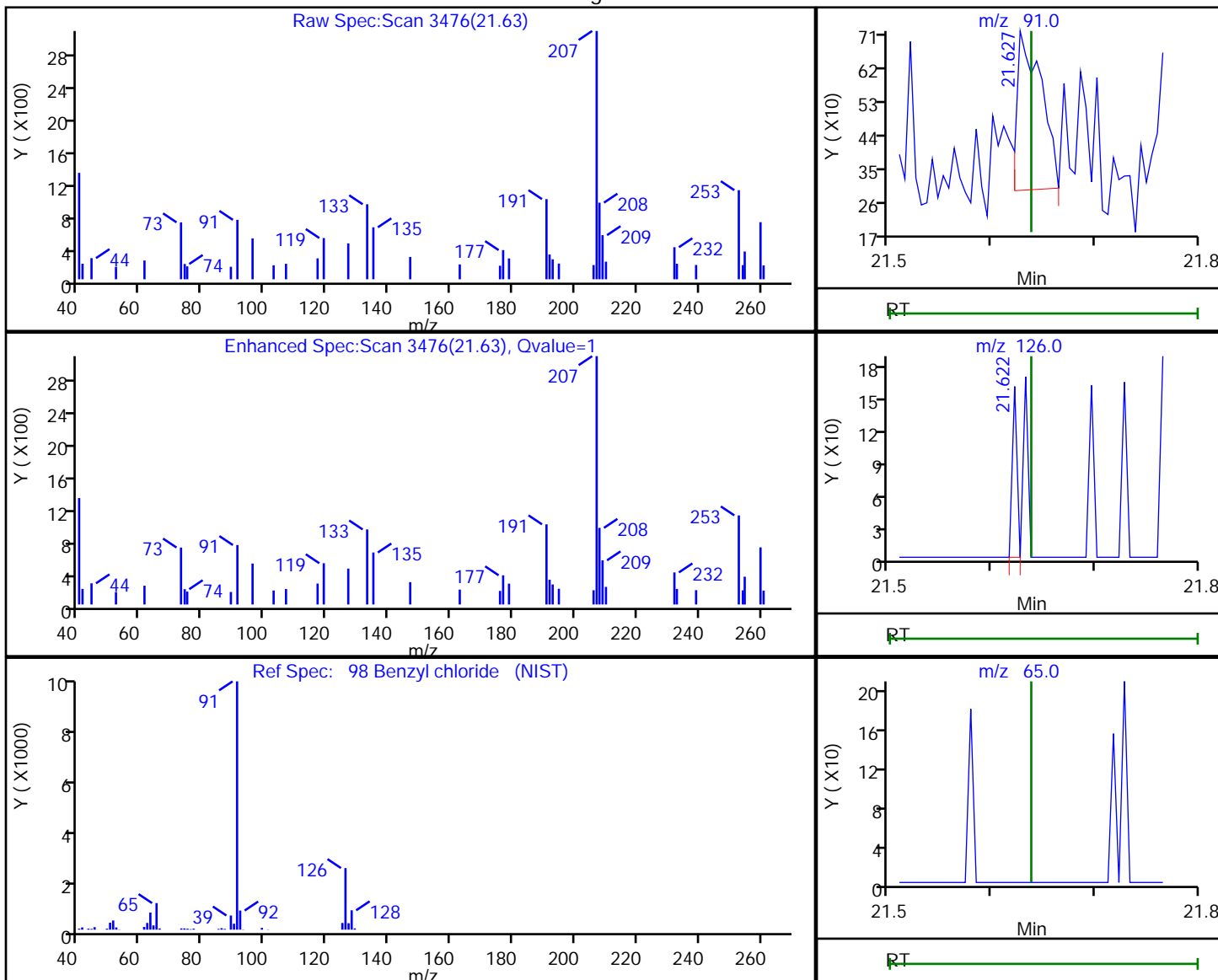
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

98 Benzyl chloride, CAS: 100-44-7

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.63 | 91.00  | 705      | 0.009412 |
| 21.62 | 126.00 | 51       |          |
| 21.64 | 65.00  | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:35

Audit Action: Marked Compound Undetected

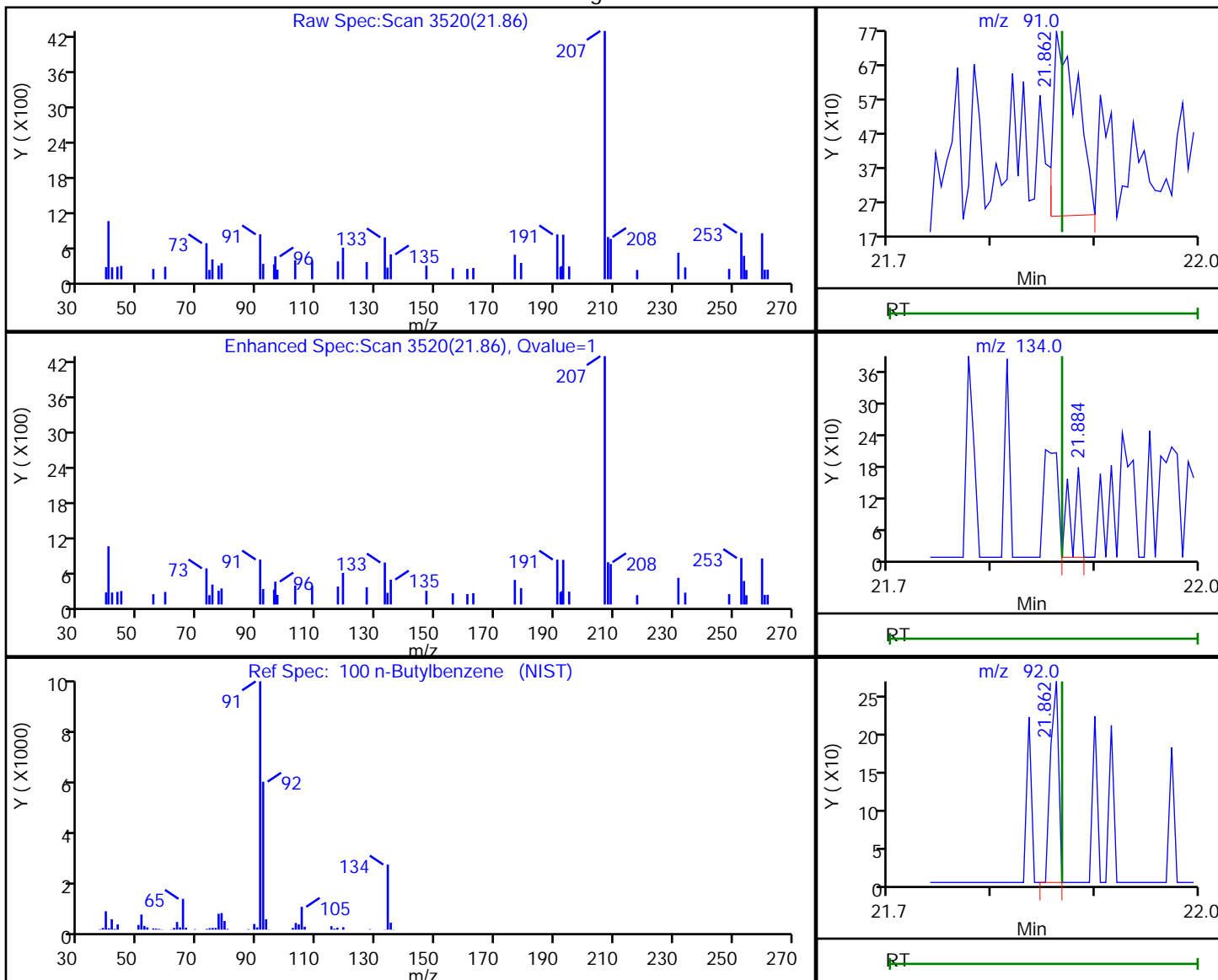
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 n-Butylbenzene, CAS: 104-51-8

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.86 | 91.00  | 872      | 0.010257 |
| 21.88 | 134.00 | 103      |          |
| 21.86 | 92.00  | 143      |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:37

Audit Action: Marked Compound Undetected

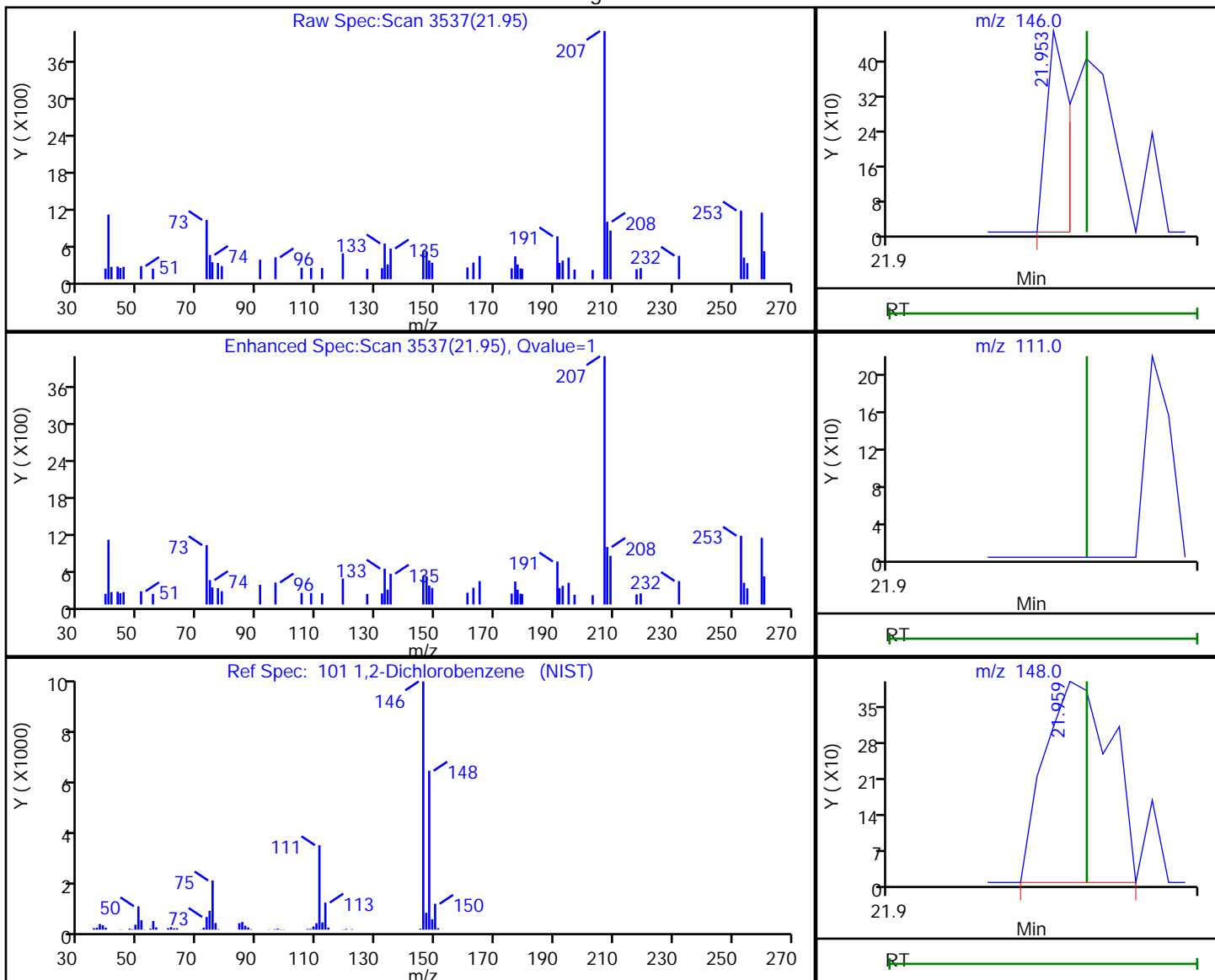
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 21.95 | 146.00 | 244      | 0.004170 |
| 21.96 | 111.00 | 0        |          |
| 21.96 | 148.00 | 594      |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:39

Audit Action: Marked Compound Undetected

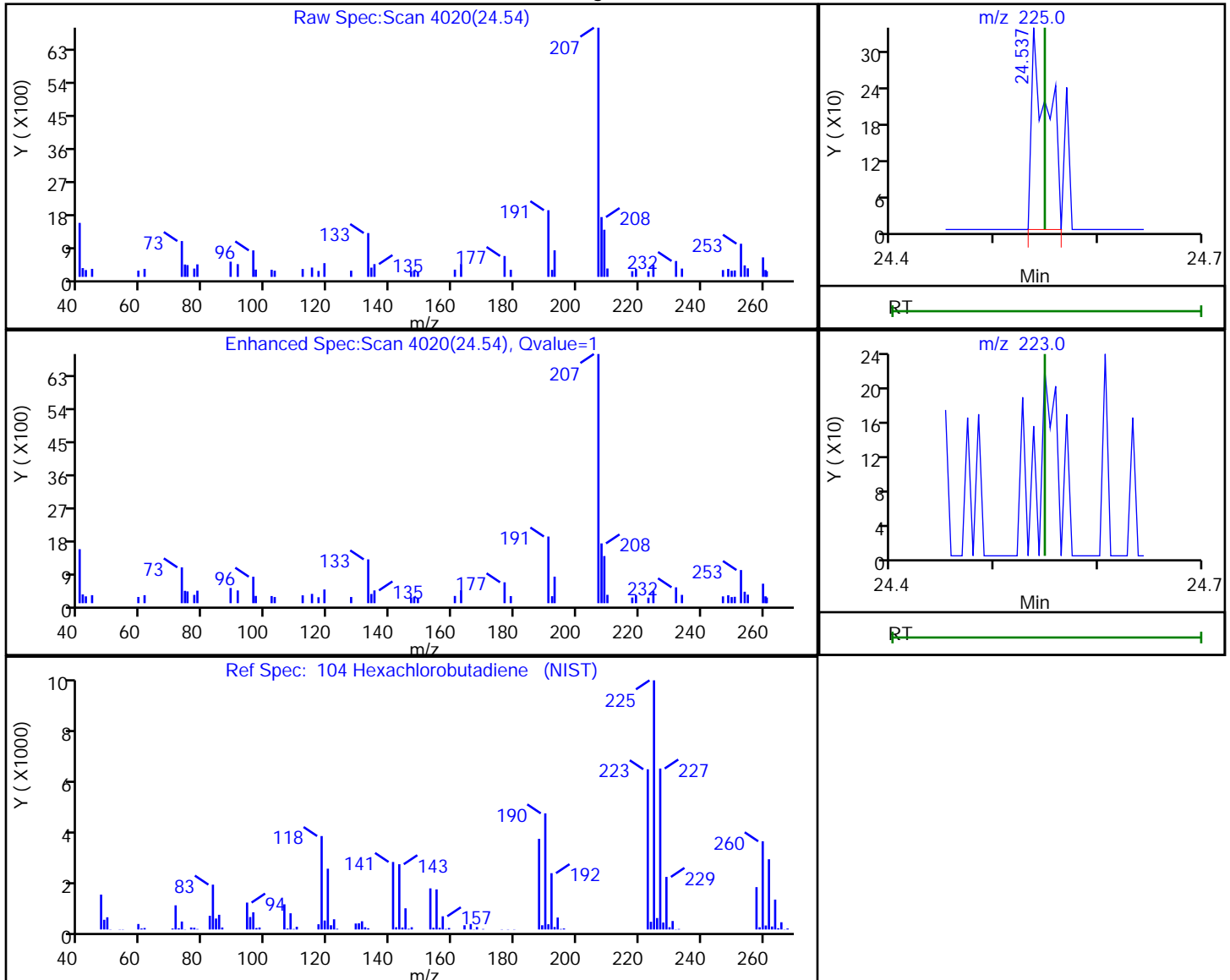
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
 Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
 Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
 Client ID: 5621  
 Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

104 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 24.54 | 225.00 | 365      | 0.008374 |
| 24.55 | 223.00 | 0        |          |

Reviewer: puangmaleek, 01-Nov-2018 14:28:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

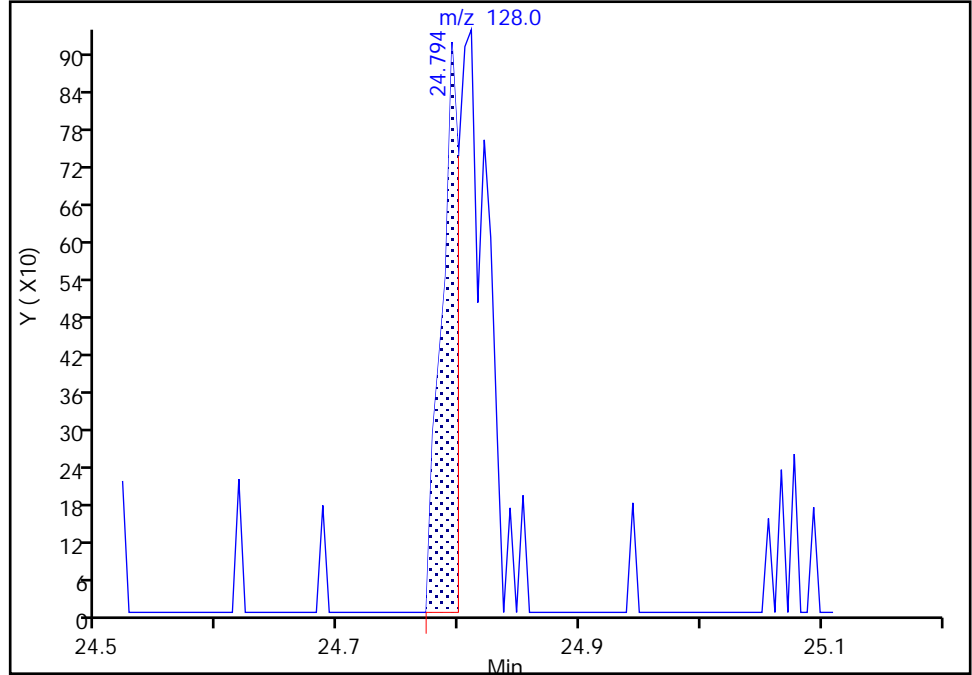
Data File: \\ChromNA\Burlington\ChromData\CHG.i\20181031-32939.b\200-32939-018.D  
Injection Date: 01-Nov-2018 02:29:30 Instrument ID: CHG.i  
Lims ID: 200-45925-A-11 Lab Sample ID: 200-45925-11  
Client ID: 5621  
Operator ID: wrd ALS Bottle#: 15 Worklist Smp#: 18  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

105 Naphthalene, CAS: 91-20-3

Signal: 1

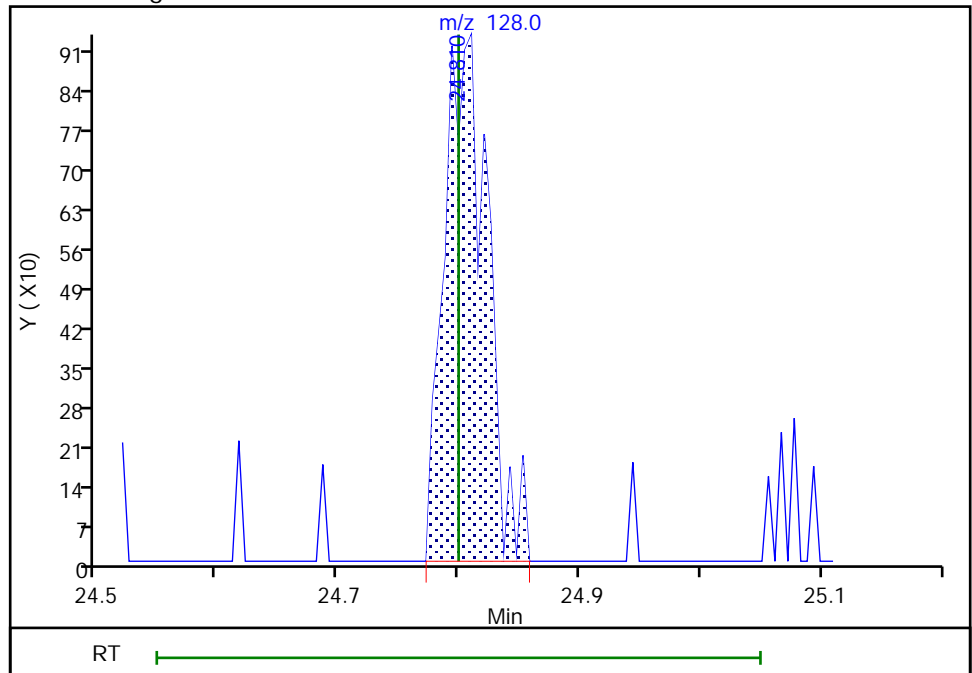
RT: 24.79  
Area: 922  
Amount: 0.014839  
Amount Units: ppb v/v

Processing Integration Results



RT: 24.81  
Area: 2309  
Amount: 0.037162  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 01-Nov-2018 14:26:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID:    |
|---------|-------------------|-----------------|
| Level 1 | IC 200-134490/22  | 200-32354-022.D |
| Level 2 | IC 200-134490/19  | 200-32354-019.D |
| Level 3 | IC 200-134490/6   | 200-32354-006.D |
| Level 4 | IC 200-134490/7   | 200-32354-007.D |
| Level 5 | ICIS 200-134490/8 | 200-32354-008.D |
| Level 6 | IC 200-134490/9   | 200-32354-009.D |
| Level 7 | IC 200-134490/10  | 200-32354-010.D |
| Level 8 | IC 200-134490/11  | 200-32354-011.D |

| ANALYTE                       | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                               | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                               | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| Propylene                     | ++++<br>0.5894   | ++++<br>0.5988   | ++++<br>0.5261   | 0.6410 | 0.6147 | Ave        |             | 0.5940 |    |   | 7.2     |      | 30.0 |          |            |   |                |
| Dichlorodifluoromethane       | ++++<br>3.3854   | ++++<br>3.4812   | 3.7491<br>2.8940 | 3.7074 | 3.4689 | Ave        |             | 3.4477 |    |   | 8.9     |      | 30.0 |          |            |   |                |
| Freon 22                      | ++++<br>1.4470   | ++++<br>1.4450   | 1.5915<br>1.2640 | 1.6322 | 1.5195 | Ave        |             | 1.4832 |    |   | 8.8     |      | 30.0 |          |            |   |                |
| 1,2-Dichlorotetrafluoroethane | ++++<br>2.4572   | 3.1477<br>2.4961 | 2.7942<br>2.1007 | 2.7915 | 2.5956 | Ave        |             | 2.6261 |    |   | 12.5    |      | 30.0 |          |            |   |                |
| Chloromethane                 | ++++<br>0.6720   | ++++<br>0.6788   | 0.7442<br>0.5963 | 0.7471 | 0.6957 | Ave        |             | 0.6890 |    |   | 8.1     |      | 30.0 |          |            |   |                |
| n-Butane                      | ++++<br>0.9024   | ++++<br>0.9122   | 0.9428<br>0.7684 | 1.0182 | 0.9569 | Ave        |             | 0.9168 |    |   | 9.1     |      | 30.0 |          |            |   |                |
| Vinyl chloride                | 1.0053<br>0.7852 | 0.9407<br>0.8037 | 0.8403<br>0.6829 | 0.8671 | 0.8196 | Ave        |             | 0.8431 |    |   | 11.7    |      | 30.0 |          |            |   |                |
| 1,3-Butadiene                 | 0.6672<br>0.5037 | 0.5999<br>0.5057 | 0.5252<br>0.4469 | 0.5527 | 0.5262 | Ave        |             | 0.5409 |    |   | 12.4    |      | 30.0 |          |            |   |                |
| Bromomethane                  | ++++<br>0.9455   | 1.1578<br>0.9626 | 1.0242<br>0.8487 | 1.0252 | 0.9704 | Ave        |             | 0.9906 |    |   | 9.5     |      | 30.0 |          |            |   |                |
| Chloroethane                  | ++++<br>0.2971   | ++++<br>0.2911   | 0.3291<br>0.2665 | 0.3290 | 0.3022 | Ave        |             | 0.3025 |    |   | 7.9     |      | 30.0 |          |            |   |                |
| Isopentane                    | ++++<br>0.5943   | 0.9481<br>0.5844 | 0.6719<br>0.5076 | 0.6625 | 0.6217 | Ave        |             | 0.6558 |    |   | 21.4    |      | 30.0 |          |            |   |                |
| Bromoethene (Vinyl Bromide)   | ++++<br>0.9058   | 1.0103<br>0.9301 | 0.9667<br>0.8322 | 0.9613 | 0.9254 | Ave        |             | 0.9331 |    |   | 6.0     |      | 30.0 |          |            |   |                |
| Trichlorofluoromethane        | ++++<br>2.7003   | 3.2673<br>2.7549 | 3.0345<br>2.4156 | 2.9711 | 2.8124 | Ave        |             | 2.8509 |    |   | 9.5     |      | 30.0 |          |            |   |                |
| n-Pentane                     | ++++<br>0.8579   | ++++<br>0.8555   | 1.0049<br>0.7481 | 0.9573 | 0.9063 | Ave        |             | 0.8883 |    |   | 10.1    |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24

Calibration End Date: 09/26/2018 14:32

Calibration ID: 40146

| ANALYTE                  | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|--------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                          | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                          | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| Ethanol                  | ++++<br>0.2308   | ++++<br>0.2294   | 0.2574<br>0.1862 | 0.2688 | 0.2481 | Ave        |             | 0.2368 |    |   | 12.3    |      | 30.0 |          |            |   |                |
| Ethyl ether              | 0.1294<br>0.3553 | 0.3807<br>0.3486 | 0.3526<br>0.3248 | 0.3718 | 0.3662 | Ave        |             | 0.3287 |    |   | 25.0    |      | 30.0 |          |            |   |                |
| Acrolein                 | ++++<br>0.1479   | ++++<br>0.1335   | ++++<br>0.1328   | 0.1590 | 0.1527 | Ave        |             | 0.1452 |    |   | 8.0     |      | 30.0 |          |            |   |                |
| Freon TF                 | ++++<br>1.8538   | 2.2158<br>1.8809 | 2.1105<br>1.6859 | 2.0265 | 1.9280 | Ave        |             | 1.9573 |    |   | 9.0     |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethene       | 0.9275<br>0.8030 | 0.9400<br>0.8341 | 0.8732<br>0.7491 | 0.8693 | 0.8262 | Ave        |             | 0.8528 |    |   | 7.4     |      | 30.0 |          |            |   |                |
| Acetone                  | ++++<br>0.8205   | ++++<br>0.8286   | ++++<br>0.7517   | 0.9363 | 0.9166 | Ave        |             | 0.8507 |    |   | 8.9     |      | 30.0 |          |            |   |                |
| Carbon disulfide         | ++++<br>2.2492   | ++++<br>2.3376   | 2.3694<br>2.0293 | 2.4076 | 2.3169 | Ave        |             | 2.2850 |    |   | 6.0     |      | 30.0 |          |            |   |                |
| Isopropyl alcohol        | ++++<br>0.8014   | ++++<br>0.7997   | ++++<br>0.7172   | 0.8644 | 0.8437 | Ave        |             | 0.8053 |    |   | 7.0     |      | 30.0 |          |            |   |                |
| 3-Chloropropene          | ++++<br>0.6690   | 0.8602<br>0.5565 | 0.6386<br>0.6051 | 0.6924 | 0.6785 | Ave        |             | 0.6715 |    |   | 14.2    |      | 30.0 |          |            |   |                |
| Acetonitrile             | ++++<br>0.3039   | ++++<br>0.3117   | ++++<br>0.2938   | 0.3333 | 0.3248 | Ave        |             | 0.3135 |    |   | 5.0     |      | 30.0 |          |            |   |                |
| Methylene Chloride       | ++++<br>0.7725   | ++++<br>0.7652   | 0.8778<br>0.6827 | 0.8496 | 0.8036 | Ave        |             | 0.7919 |    |   | 8.7     |      | 30.0 |          |            |   |                |
| tert-Butyl alcohol       | ++++<br>1.1783   | ++++<br>1.2230   | ++++<br>1.0976   | 1.2348 | 1.2132 | Ave        |             | 1.1894 |    |   | 4.7     |      | 30.0 |          |            |   |                |
| Methyl tert-butyl ether  | ++++<br>1.7608   | 1.9959<br>1.7841 | 1.9138<br>1.6524 | 1.8507 | 1.8508 | Ave        |             | 1.8298 |    |   | 6.1     |      | 30.0 |          |            |   |                |
| trans-1,2-Dichloroethene | ++++<br>1.0030   | 0.6407<br>1.0090 | 1.0811<br>0.8900 | 1.1030 | 1.0547 | Ave        |             | 0.9688 |    |   | 16.6    |      | 30.0 |          |            |   |                |
| Acrylonitrile            | ++++<br>0.3210   | ++++<br>0.3280   | 0.3069<br>0.3178 | 0.3282 | 0.3413 | Ave        |             | 0.3239 |    |   | 3.6     |      | 30.0 |          |            |   |                |
| n-Hexane                 | ++++<br>0.7852   | 0.9022<br>0.7900 | 0.8077<br>0.7142 | 0.8202 | 0.8154 | Ave        |             | 0.8050 |    |   | 6.9     |      | 30.0 |          |            |   |                |
| 1,1-Dichloroethane       | 1.6412<br>1.2731 | 1.4728<br>1.2659 | 1.3145<br>1.1621 | 1.3656 | 1.3256 | Ave        |             | 1.3526 |    |   | 10.8    |      | 30.0 |          |            |   |                |
| Vinyl acetate            | ++++<br>1.2535   | ++++<br>1.2657   | ++++<br>1.1127   | 1.3256 | 1.3366 | Ave        |             | 1.2588 |    |   | 7.1     |      | 30.0 |          |            |   |                |
| cis-1,2-Dichloroethene   | 0.8580<br>0.8553 | 0.9349<br>0.8695 | 0.9078<br>0.7974 | 0.8735 | 0.8494 | Ave        |             | 0.8682 |    |   | 4.7     |      | 30.0 |          |            |   |                |
| Methyl Ethyl Ketone      | ++++<br>0.2666   | ++++<br>0.2761   | ++++<br>0.2537   | 0.2788 | 0.2794 | Ave        |             | 0.2812 |    |   | 9.6     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE                 | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|-------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|                         | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |                       |   |                           |
|                         | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |                       |   |                           |
| Ethyl acetate           | ++++<br>0.0409   | ++++<br>0.0409   | ++++<br>0.0388   | 0.0420 | 0.0425 | Ave        |             | 0.0410 |    |   | 3.5     |      | 30.0 |          |                       |   |                           |
| Tetrahydrofuran         | ++++<br>0.1142   | ++++<br>0.1116   | ++++<br>0.0982   | 0.1333 | 0.1240 | Ave        |             | 0.1162 |    |   | 11.4    |      | 30.0 |          |                       |   |                           |
| Chloroform              | ++++<br>2.0116   | 2.2543<br>2.0314 | 2.1474<br>1.8394 | 2.1353 | 2.0729 | Ave        |             | 2.0703 |    |   | 6.3     |      | 30.0 |          |                       |   |                           |
| Cyclohexane             | ++++<br>0.1891   | 0.2209<br>0.1931 | 0.2098<br>0.1668 | 0.2085 | 0.1957 | Ave        |             | 0.1977 |    |   | 8.9     |      | 30.0 |          |                       |   |                           |
| 1,1,1-Trichloroethane   | ++++<br>0.4857   | 0.5845<br>0.4862 | 0.5319<br>0.4264 | 0.5396 | 0.4998 | Ave        |             | 0.5077 |    |   | 9.9     |      | 30.0 |          |                       |   |                           |
| Carbon tetrachloride    | 0.5296<br>0.5673 | 0.5712<br>0.5736 | 0.5552<br>0.5168 | 0.6062 | 0.5258 | Ave        |             | 0.5557 |    |   | 5.4     |      | 30.0 |          |                       |   |                           |
| 2,2,4-Trimethylpentane  | ++++<br>0.6825   | 0.7714<br>0.6785 | 0.7026<br>0.5719 | 0.7743 | 0.7154 | Ave        |             | 0.6995 |    |   | 9.8     |      | 30.0 |          |                       |   |                           |
| Benzene                 | ++++<br>0.4880   | 0.6268<br>0.4913 | 0.5541<br>0.4363 | 0.5375 | 0.5086 | Ave        |             | 0.5204 |    |   | 11.6    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichloroethane      | ++++<br>0.3053   | 0.3610<br>0.3044 | 0.3134<br>0.2719 | 0.3376 | 0.3216 | Ave        |             | 0.3164 |    |   | 8.9     |      | 30.0 |          |                       |   |                           |
| n-Heptane               | ++++<br>0.2540   | 0.2058<br>0.2500 | 0.2498<br>0.2120 | 0.2879 | 0.2684 | Ave        |             | 0.2468 |    |   | 11.8    |      | 30.0 |          |                       |   |                           |
| n-Butanol               | ++++<br>0.0882   | 0.0939<br>0.0939 | 0.0805<br>0.0805 | 0.0921 | 0.0935 | Ave        |             | 0.0896 |    |   | 6.2     |      | 30.0 |          |                       |   |                           |
| Trichloroethene         | 0.4077<br>0.3074 | 0.3288<br>0.3186 | 0.3440<br>0.2825 | 0.3214 | 0.3027 | Ave        |             | 0.3266 |    |   | 11.5    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichloropropane     | ++++<br>0.2097   | 0.2512<br>0.2088 | 0.2293<br>0.1850 | 0.2268 | 0.2149 | Ave        |             | 0.2179 |    |   | 9.5     |      | 30.0 |          |                       |   |                           |
| Methyl methacrylate     | ++++<br>0.1628   | 0.1550<br>0.1720 | 0.1550<br>0.1550 | 0.1698 | 0.1675 | Ave        |             | 0.1637 |    |   | 4.5     |      | 30.0 |          |                       |   |                           |
| Dibromomethane          | 0.2655<br>0.2985 | 0.2897<br>0.3269 | 0.3296<br>0.3050 | 0.2947 | 0.2862 | Ave        |             | 0.2995 |    |   | 7.1     |      | 30.0 |          |                       |   |                           |
| 1,4-Dioxane             | ++++<br>0.1045   | 0.1070<br>0.1070 | 0.0929<br>0.0929 | 0.1129 | 0.1063 | Ave        |             | 0.1047 |    |   | 7.0     |      | 30.0 |          |                       |   |                           |
| Bromodichloromethane    | ++++<br>0.5403   | 0.5801<br>0.5590 | 0.5393<br>0.4928 | 0.5625 | 0.5490 | Ave        |             | 0.5461 |    |   | 5.0     |      | 30.0 |          |                       |   |                           |
| cis-1,3-Dichloropropene | ++++<br>0.3584   | 0.3468<br>0.3683 | 0.3421<br>0.3332 | 0.3708 | 0.3656 | Ave        |             | 0.3550 |    |   | 4.1     |      | 30.0 |          |                       |   |                           |
| methyl isobutyl ketone  | ++++<br>0.3545   | 0.3597<br>0.3597 | 0.3038<br>0.3031 | 0.3904 | 0.3811 | Ave        |             | 0.3488 |    |   | 10.8    |      | 30.0 |          |                       |   |                           |
| Toluene                 | ++++<br>0.4337   | 0.4581<br>0.4370 | 0.4712<br>0.4150 | 0.4506 | 0.4362 | Ave        |             | 0.4431 |    |   | 4.2     |      | 30.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24

Calibration End Date: 09/26/2018 14:32

Calibration ID: 40146

| ANALYTE                          | RRF              |                  |                  |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|----------------------------------|------------------|------------------|------------------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
|                                  | LVL 1            | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |      |          |            |   |                |
|                                  | LVL 6            | LVL 7            | LVL 8            |        |        |            |             |        |    |   |         |      |      |          |            |   |                |
| n-Octane                         | 0.4285<br>0.3915 | 0.4816<br>0.3869 | 0.4099<br>0.3224 | 0.4485 | 0.4157 | Ave        |             | 0.4106 |    |   | 11.5    |      | 30.0 |          |            |   |                |
| trans-1,3-Dichloropropene        | ++++<br>0.3498   | 0.3295<br>0.3555 | 0.3645<br>0.3297 | 0.3643 | 0.3555 | Ave        |             | 0.3498 |    |   | 4.2     |      | 30.0 |          |            |   |                |
| 1,1,2-Trichloroethane            | ++++<br>0.2413   | ++++<br>0.2414   | 0.2766<br>0.2190 | 0.2591 | 0.2468 | Ave        |             | 0.2474 |    |   | 7.8     |      | 30.0 |          |            |   |                |
| Tetrachloroethene                | 0.4712<br>0.4600 | 0.4901<br>0.4868 | 0.5038<br>0.4614 | 0.4511 | 0.4448 | Ave        |             | 0.4712 |    |   | 4.4     |      | 30.0 |          |            |   |                |
| Methyl Butyl Ketone (2-Hexanone) | ++++<br>0.3748   | ++++<br>0.3714   | 0.3836<br>0.3223 | 0.4037 | 0.4084 | Ave        |             | 0.3774 |    |   | 8.2     |      | 30.0 |          |            |   |                |
| Dibromochloromethane             | ++++<br>0.6646   | 0.5865<br>0.6772 | 0.5814<br>0.6391 | 0.6388 | 0.6538 | Ave        |             | 0.6345 |    |   | 5.8     |      | 30.0 |          |            |   |                |
| 1,2-Dibromoethane                | ++++<br>0.4929   | 0.4439<br>0.5005 | 0.4894<br>0.4671 | 0.4960 | 0.4900 | Ave        |             | 0.4828 |    |   | 4.2     |      | 30.0 |          |            |   |                |
| Chlorobenzene                    | ++++<br>0.6337   | 0.6548<br>0.6497 | 0.6916<br>0.6123 | 0.6419 | 0.6266 | Ave        |             | 0.6444 |    |   | 3.9     |      | 30.0 |          |            |   |                |
| Ethylbenzene                     | ++++<br>0.9475   | 1.0044<br>0.9445 | 1.0073<br>0.8803 | 0.9874 | 0.9657 | Ave        |             | 0.9624 |    |   | 4.6     |      | 30.0 |          |            |   |                |
| n-Nonane                         | ++++<br>0.4137   | 0.4211<br>0.3967 | 0.4130<br>0.3466 | 0.4558 | 0.4327 | Ave        |             | 0.4114 |    |   | 8.3     |      | 30.0 |          |            |   |                |
| m,p-Xylene                       | ++++<br>0.3793   | 0.3925<br>0.3882 | 0.3992<br>0.3663 | 0.3859 | 0.3843 | Ave        |             | 0.3851 |    |   | 2.7     |      | 30.0 |          |            |   |                |
| Xylene, o-                       | ++++<br>0.3732   | 0.3768<br>0.3810 | 0.3971<br>0.3618 | 0.3863 | 0.3792 | Ave        |             | 0.3793 |    |   | 2.9     |      | 30.0 |          |            |   |                |
| Styrene                          | ++++<br>0.5498   | 0.4498<br>0.5671 | 0.4776<br>0.5596 | 0.5456 | 0.5503 | Ave        |             | 0.5285 |    |   | 8.6     |      | 30.0 |          |            |   |                |
| Bromoform                        | ++++<br>0.6513   | 0.5007<br>0.6516 | 0.4860<br>0.6300 | 0.5941 | 0.6369 | Ave        |             | 0.5930 |    |   | 11.9    |      | 30.0 |          |            |   |                |
| Cumene                           | ++++<br>1.0502   | 1.0325<br>1.0594 | 1.1043<br>1.0013 | 1.0824 | 1.0748 | Ave        |             | 1.0578 |    |   | 3.2     |      | 30.0 |          |            |   |                |
| 1,1,2,2-Tetrachloroethane        | ++++<br>0.5911   | 0.6746<br>0.5858 | 0.6599<br>0.5115 | 0.6593 | 0.6234 | Ave        |             | 0.6151 |    |   | 9.3     |      | 30.0 |          |            |   |                |
| n-Propylbenzene                  | ++++<br>1.1988   | 1.2754<br>1.1894 | 1.2853<br>1.0590 | 1.2966 | 1.2451 | Ave        |             | 1.2214 |    |   | 6.8     |      | 30.0 |          |            |   |                |
| 1,2,3-Trichloropropane           | ++++<br>0.4630   | ++++<br>0.4530   | 0.5542<br>0.3915 | 0.5308 | 0.4953 | Ave        |             | 0.4813 |    |   | 12.2    |      | 30.0 |          |            |   |                |
| 2-Chlorotoluene                  | ++++<br>0.8730   | 0.9516<br>0.8524 | 0.9857<br>0.7233 | 0.9701 | 0.9139 | Ave        |             | 0.8957 |    |   | 10.1    |      | 30.0 |          |            |   |                |
| 4-Ethyltoluene                   | ++++<br>0.9949   | 0.9537<br>0.9899 | 1.0047<br>0.8667 | 1.0529 | 1.0275 | Ave        |             | 0.9843 |    |   | 6.1     |      | 30.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE                | RRF            |                  |                  |        |        | CURVE TYPE | COEFFICIENT |    |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|------------------------|----------------|------------------|------------------|--------|--------|------------|-------------|----|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|                        | LVL 1          | LVL 2            | LVL 3            | LVL 4  | LVL 5  |            | B           | M1 | M2 |   |         |      |      |          |                       |   |                           |
|                        | LVL 6          | LVL 7            | LVL 8            |        |        |            |             |    |    |   |         |      |      |          |                       |   |                           |
| n-Decane               | ++++<br>0.4647 | ++++<br>0.4367   | 0.5072<br>0.3579 | 0.5474 | 0.4884 | Ave        | 0.4671      |    |    |   | 14.0    |      | 30.0 |          |                       |   |                           |
| 1,3,5-Trimethylbenzene | ++++<br>0.8587 | 0.8140<br>0.8771 | 0.8803<br>0.8251 | 0.8876 | 0.8640 | Ave        | 0.8581      |    |    |   | 3.3     |      | 30.0 |          |                       |   |                           |
| Alpha Methyl Styrene   | ++++<br>0.4442 | 0.3376<br>0.4600 | 0.3658<br>0.4542 | 0.4328 | 0.4320 | Ave        | 0.4181      |    |    |   | 11.3    |      | 30.0 |          |                       |   |                           |
| tert-Butylbenzene      | ++++<br>0.8068 | 0.8042<br>0.8291 | 0.8673<br>0.7798 | 0.8413 | 0.8205 | Ave        | 0.8213      |    |    |   | 3.4     |      | 30.0 |          |                       |   |                           |
| 1,2,4-Trimethylbenzene | ++++<br>0.8235 | 0.7889<br>0.8438 | 0.8484<br>0.7856 | 0.8780 | 0.8206 | Ave        | 0.8270      |    |    |   | 4.0     |      | 30.0 |          |                       |   |                           |
| sec-Butylbenzene       | ++++<br>1.1639 | 1.1944<br>1.1884 | 1.2788<br>1.0901 | 1.2503 | 1.2002 | Ave        | 1.1952      |    |    |   | 5.1     |      | 30.0 |          |                       |   |                           |
| 4-Isopropyltoluene     | ++++<br>0.9769 | 0.8866<br>0.9980 | 1.0385<br>0.8922 | 1.0227 | 0.9998 | Ave        | 0.9735      |    |    |   | 6.2     |      | 30.0 |          |                       |   |                           |
| 1,3-Dichlorobenzene    | ++++<br>0.6516 | 0.5992<br>0.6648 | 0.6615<br>0.6158 | 0.6499 | 0.6299 | Ave        | 0.6389      |    |    |   | 3.9     |      | 30.0 |          |                       |   |                           |
| 1,4-Dichlorobenzene    | ++++<br>0.6338 | 0.5892<br>0.6571 | 0.6300<br>0.6409 | 0.6208 | 0.6093 | Ave        | 0.6259      |    |    |   | 3.5     |      | 30.0 |          |                       |   |                           |
| Benzyl chloride        | ++++<br>0.7895 | 0.6982<br>0.7357 | 0.7454<br>0.7536 | 0.8149 | 0.7985 | Ave        | 0.7623      |    |    |   | 5.4     |      | 30.0 |          |                       |   |                           |
| n-Butylbenzene         | ++++<br>0.8734 | 0.7924<br>0.8843 | 0.8701<br>0.7882 | 0.9527 | 0.8950 | Ave        | 0.8652      |    |    |   | 6.7     |      | 30.0 |          |                       |   |                           |
| n-Undecane             | ++++<br>0.4476 | ++++<br>0.4644   | ++++<br>0.3919   | 0.5378 | 0.4423 | Ave        | 0.4568      |    |    |   | 11.5    |      | 30.0 |          |                       |   |                           |
| 1,2-Dichlorobenzene    | ++++<br>0.5889 | 0.6050<br>0.6089 | 0.6123<br>0.5948 | 0.5939 | 0.5639 | Ave        | 0.5954      |    |    |   | 2.7     |      | 30.0 |          |                       |   |                           |
| n-Dodecane             | ++++<br>0.3200 | 0.3467<br>0.3861 | 0.3159<br>0.2903 | 0.4280 | 0.2093 | Ave        | 0.3280      |    |    |   | 21.4    |      | 30.0 |          |                       |   |                           |
| 1,2,4-Trichlorobenzene | ++++<br>0.3577 | 0.3353<br>0.4090 | 0.3563<br>0.4142 | 0.3550 | 0.2548 | Ave        | 0.3546      |    |    |   | 14.9    |      | 30.0 |          |                       |   |                           |
| Hexachlorobutadiene    | ++++<br>0.4303 | 0.4615<br>0.4609 | 0.4868<br>0.4043 | 0.4543 | 0.4065 | Ave        | 0.4435      |    |    |   | 7.0     |      | 30.0 |          |                       |   |                           |
| Naphthalene            | ++++<br>0.6179 | 0.6313<br>0.7189 | 0.7379<br>0.7462 | 0.6141 | 0.3596 | Ave        | 0.6323      |    |    |   | 21.1    |      | 30.0 |          |                       |   |                           |
| 1,2,3-Trichlorobenzene | ++++<br>0.3180 | 0.2890<br>0.3764 | 0.4026<br>0.3606 | 0.3247 | 0.2109 | Ave        | 0.3260      |    |    |   | 19.5    |      | 30.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID:    |
|---------|-------------------|-----------------|
| Level 1 | IC 200-134490/22  | 200-32354-022.D |
| Level 2 | IC 200-134490/19  | 200-32354-019.D |
| Level 3 | IC 200-134490/6   | 200-32354-006.D |
| Level 4 | IC 200-134490/7   | 200-32354-007.D |
| Level 5 | ICIS 200-134490/8 | 200-32354-008.D |
| Level 6 | IC 200-134490/9   | 200-32354-009.D |
| Level 7 | IC 200-134490/10  | 200-32354-010.D |
| Level 8 | IC 200-134490/11  | 200-32354-011.D |

| ANALYTE                       | IS REF | CURVE TYPE | RESPONSE        |                  |                  |        |         | CONCENTRATION (PPB V/V) |               |               |       |       |
|-------------------------------|--------|------------|-----------------|------------------|------------------|--------|---------|-------------------------|---------------|---------------|-------|-------|
|                               |        |            | LVL 1           | LVL 2            | LVL 3            | LVL 4  | LVL 5   | LVL 1                   | LVL 2         | LVL 3         | LVL 4 | LVL 5 |
|                               |        |            | LVL 6           | LVL 7            | LVL 8            |        |         | LVL 6                   | LVL 7         | LVL 8         |       |       |
| Propylene                     | BCM    | Ave        | ++++<br>373317  | ++++<br>492753   | ++++<br>908665   | 133630 | 263317  | ++++<br>15.0            | ++++<br>20.0  | ++++<br>40.0  | 4.99  | 10.00 |
| Dichlorodifluoromethane       | BCM    | Ave        | ++++<br>2144357 | ++++<br>2864910  | 82939<br>4998644 | 772943 | 1485912 | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Freon 22                      | BCM    | Ave        | ++++<br>916564  | ++++<br>1189164  | 35208<br>2183289 | 340295 | 650893  | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| 1,2-Dichlorotetrafluoroethane | BCM    | Ave        | ++++<br>1556439 | 23631<br>2054209 | 61815<br>3628404 | 581988 | 1111820 | ++++<br>15.0            | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| Chloromethane                 | BCM    | Ave        | ++++<br>425641  | ++++<br>558638   | 16464<br>1029911 | 155763 | 297982  | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| n-Butane                      | BCM    | Ave        | ++++<br>571559  | ++++<br>750710   | 20858<br>1327162 | 212280 | 409894  | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Vinyl chloride                | BCM    | Ave        | 1344<br>497372  | 7062<br>661439   | 18589<br>1179477 | 180769 | 351061  | 0.0351<br>15.0          | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| 1,3-Butadiene                 | BCM    | Ave        | 892<br>319078   | 4504<br>416151   | 11619<br>771839  | 115233 | 225396  | 0.0351<br>15.0          | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| Bromomethane                  | BCM    | Ave        | ++++<br>598857  | 8692<br>792160   | 22657<br>1466003 | 213738 | 415681  | ++++<br>15.0            | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| Chloroethane                  | BCM    | Ave        | ++++<br>188180  | ++++<br>239565   | 7280<br>460392   | 68597  | 129454  | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Isopentane                    | BCM    | Ave        | ++++<br>376419  | 7118<br>480929   | 14864<br>876675  | 138117 | 266317  | ++++<br>15.0            | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| Bromoethene (Vinyl Bromide)   | BCM    | Ave        | ++++<br>573728  | 7585<br>765417   | 21387<br>1437499 | 200411 | 396380  | ++++<br>15.0            | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| Trichlorofluoromethane        | BCM    | Ave        | ++++<br>1710400 | 24529<br>2267218 | 67132<br>4172337 | 619444 | 1204690 | ++++<br>15.0            | 0.200<br>20.0 | 0.500<br>40.0 | 4.99  | 10.00 |
| n-Pentane                     | BCM    | Ave        | ++++<br>543400  | ++++<br>704059   | 22230<br>1292243 | 199583 | 388192  | ++++<br>15.0            | ++++<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Ethanol                       | BCM    | Ave        | ++++<br>195307  | ++++<br>377717   | 57018<br>803997  | 112143 | 159481  | ++++<br>20.0            | ++++<br>40.0  | 5.01<br>100.0 | 9.99  | 15.0  |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24

Calibration End Date: 09/26/2018 14:32

Calibration ID: 40146

| ANALYTE                  | IS REF | CURVE TYPE | RESPONSE        |                  |                  |        |        | CONCENTRATION (PPB V/V) |                |                |               |       |       |
|--------------------------|--------|------------|-----------------|------------------|------------------|--------|--------|-------------------------|----------------|----------------|---------------|-------|-------|
|                          |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4         | LVL 5 |       |
| Ethyl ether              | BCM    | Ave        | 173<br>225072   | 2858<br>286905   | 7800<br>561070   | 77515  | 156867 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Acrolein                 | BCM    | Ave        | ++++<br>93685   | ++++<br>109889   | ++++<br>229441   | 33152  | 65422  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| Freon TF                 | BCM    | Ave        | ++++<br>1174220 | 16635<br>1547906 | 46689<br>2911979 | 422498 | 825863 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 1,1-Dichloroethene       | BCM    | Ave        | 1240<br>508653  | 7057<br>686452   | 19318<br>1293831 | 181237 | 353903 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Acetone                  | BCM    | Ave        | ++++<br>519735  | ++++<br>681885   | ++++<br>1298302  | 195200 | 392634 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| Carbon disulfide         | BCM    | Ave        | ++++<br>1424630 | ++++<br>1923741  | ++++<br>3505114  | 52417  | 501954 | 992438                  | ++++<br>15.0   | ++++<br>20.0   | 0.500<br>40.0 | 4.99  | 10.00 |
| Isopropyl alcohol        | BCM    | Ave        | ++++<br>507585  | ++++<br>658115   | ++++<br>1238856  | 180217 | 361406 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| 3-Chloropropene          | BCM    | Ave        | ++++<br>423737  | ++++<br>457988   | ++++<br>1045177  | 14128  | 144351 | 290648                  | ++++<br>15.0   | 0.200<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Acetonitrile             | BCM    | Ave        | ++++<br>192497  | ++++<br>256485   | ++++<br>507494   | 69481  | 139145 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| Methylene Chloride       | BCM    | Ave        | ++++<br>489302  | ++++<br>629708   | ++++<br>1179218  | 19420  | 177122 | 344226                  | ++++<br>15.0   | ++++<br>20.0   | 0.500<br>40.0 | 4.99  | 10.00 |
| tert-Butyl alcohol       | BCM    | Ave        | ++++<br>746336  | ++++<br>1006529  | ++++<br>1895788  | 257436 | 519691 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| Methyl tert-butyl ether  | BCM    | Ave        | ++++<br>1115332 | ++++<br>14984    | ++++<br>14984    | 42338  | 385856 | 792775                  | ++++<br>15.0   | 0.200<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| trans-1,2-Dichloroethene | BCM    | Ave        | ++++<br>635289  | ++++<br>830357   | ++++<br>1537254  | 23917  | 229966 | 451759                  | ++++<br>15.0   | 0.200<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| Acrylonitrile            | BCM    | Ave        | ++++<br>203341  | ++++<br>269958   | ++++<br>548917   | 6789   | 68423  | 146177                  | ++++<br>15.0   | ++++<br>20.0   | 0.500<br>40.0 | 4.99  | 10.00 |
| n-Hexane                 | BCM    | Ave        | ++++<br>497380  | ++++<br>650143   | ++++<br>1233599  | 6773   | 171005 | 349279                  | ++++<br>15.0   | 0.200<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |
| 1,1-Dichloroethane       | BCM    | Ave        | 2194<br>806393  | 11057<br>1041755 | 29080<br>2007331 | 284711 | 567825 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Vinyl acetate            | BCM    | Ave        | ++++<br>794002  | ++++<br>1041647  | ++++<br>1921885  | 276376 | 572542 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| cis-1,2-Dichloroethene   | BCM    | Ave        | 1147<br>541760  | 7019<br>715595   | 20082<br>1377289 | 182109 | 363852 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Methyl Ethyl Ketone      | BCM    | Ave        | ++++<br>168852  | ++++<br>227252   | ++++<br>438266   | 7361   | 58124  | 119691                  | ++++<br>15.0   | ++++<br>20.0   | 0.500<br>40.0 | 4.99  | 10.00 |
| Ethyl acetate            | BCM    | Ave        | ++++<br>25911   | ++++<br>33694    | ++++<br>66961    | 8761   | 18214  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| Tetrahydrofuran          | DFBZ   | Ave        | ++++<br>343171  | ++++<br>439174   | ++++<br>840588   | 124018 | 247446 | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24

Calibration End Date: 09/26/2018 14:32

Calibration ID: 40146

| ANALYTE                   | IS REF     | CURVE TYPE | RESPONSE        |                  |                  |        |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|---------------------------|------------|------------|-----------------|------------------|------------------|--------|---------|-------------------------|----------------|----------------|-------|-------|
|                           |            |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Chloroform                | BCM        | Ave        | ++++<br>1274182 | 16924<br>1671799 | 47507<br>3177089 | 445180 | 887941  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cyclohexane               | DFBZ       | Ave        | ++++<br>568453  | 7184<br>759978   | 21834<br>1427341 | 194024 | 390564  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,1-Trichloroethane     | DFBZ       | Ave        | ++++<br>1459990 | 19007<br>1913116 | 55361<br>3648821 | 502041 | 997631  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Carbon tetrachloride      | DFBZ       | Ave        | 3060<br>1705304 | 18572<br>2257180 | 57789<br>4423260 | 563993 | 1049482 | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 2,2,4-Trimethylpentane    | DFBZ       | Ave        | ++++<br>2051593 | 25083<br>2669738 | 73130<br>4894290 | 720441 | 1428064 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Benzene                   | DFBZ       | Ave        | ++++<br>1466810 | 20381<br>1933270 | 57670<br>3733545 | 500121 | 1015189 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloroethane        | DFBZ       | Ave        | ++++<br>917617  | 11738<br>1197663 | 32620<br>2326738 | 314083 | 642036  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Heptane                 | DFBZ       | Ave        | ++++<br>763472  | 6692<br>983746   | 26003<br>1814693 | 267868 | 535721  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Butanol                 | DFBZ       | Ave        | ++++<br>265074  | ++++<br>369410   | ++++<br>689330   | 85676  | 186688  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Trichloroethene           | DFBZ       | Ave        | 2356<br>924155  | 10692<br>1253748 | 35804<br>2417543 | 298997 | 604223  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dichloropropane       | DFBZ       | Ave        | ++++<br>630299  | 8168<br>821587   | 23866<br>1583107 | 210999 | 429003  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl methacrylate       | DFBZ       | Ave        | ++++<br>489412  | ++++<br>676680   | 16135<br>1326434 | 157998 | 334330  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Dibromomethane            | DFBZ       | Ave        | 1534<br>897198  | 9421<br>1286453  | 34305<br>2610560 | 274210 | 571202  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,4-Dioxane               | DFBZ       | Ave        | ++++<br>314242  | ++++<br>421241   | ++++<br>794893   | 105057 | 212226  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99  | 10.00 |
| Bromodichloromethane      | DFBZ       | Ave        | ++++<br>1624084 | 18864<br>2199638 | 56132<br>4217362 | 523364 | 1095798 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| cis-1,3-Dichloropropene   | DFBZ       | Ave        | ++++<br>1077378 | 11277<br>1449185 | 35606<br>2852011 | 344995 | 729785  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| methyl isobutyl ketone    | DFBZ       | Ave        | ++++<br>1065687 | ++++<br>1415455  | 31622<br>2594188 | 363231 | 760662  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Toluene                   | CBNZ<br>d5 | Ave        | ++++<br>1189653 | 13008<br>1611317 | 43918<br>3260706 | 378645 | 784680  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Octane                  | DFBZ       | Ave        | 2476<br>1176869 | 15659<br>1522591 | 42666<br>2759526 | 417275 | 829742  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| trans-1,3-Dichloropropene | DFBZ       | Ave        | ++++<br>1051373 | 10713<br>1398727 | 37942<br>2821912 | 338948 | 709576  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2-Trichloroethane     | CBNZ<br>d5 | Ave        | ++++<br>662019  | ++++<br>890294   | 25785<br>1720864 | 217722 | 443957  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-45925-1

Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24

Calibration End Date: 09/26/2018 14:32

Calibration ID: 40146

| ANALYTE                          | IS REF  | CURVE TYPE | RESPONSE        |                  |                   |         |         | CONCENTRATION (PPB V/V) |                |                |       |       |
|----------------------------------|---------|------------|-----------------|------------------|-------------------|---------|---------|-------------------------|----------------|----------------|-------|-------|
|                                  |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| Tetrachloroethene                | CBNZ d5 | Ave        | 2350<br>1261858 | 13916<br>1795129 | 46957<br>3625651  | 379029  | 800247  | 0.0351<br>15.0          | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Methyl Butyl Ketone (2-Hexanone) | CBNZ d5 | Ave        | ++++<br>1028180 | ++++<br>1369468  | ++++<br>2532368   | 339211  | 734745  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| Dibromochloromethane             | CBNZ d5 | Ave        | ++++<br>1823090 | 16654<br>2496951 | 54196<br>5021895  | 536795  | 1176118 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2-Dibromoethane                | CBNZ d5 | Ave        | ++++<br>1352076 | 12605<br>1845677 | 45618<br>3670531  | 416755  | 881430  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Chlorobenzene                    | CBNZ d5 | Ave        | ++++<br>1738287 | 18593<br>2395537 | 64466<br>4811314  | 539350  | 1127274 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Ethylbenzene                     | CBNZ d5 | Ave        | ++++<br>2599181 | 28518<br>3482924 | 93890<br>6916661  | 829718  | 1737231 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Nonane                         | CBNZ d5 | Ave        | ++++<br>1134857 | 11956<br>1462724 | 38495<br>2723586  | 382979  | 778359  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| m,p-Xylene                       | CBNZ d5 | Ave        | ++++<br>2080932 | 22290<br>2862784 | 74426<br>5756629  | 648577  | 1382845 | ++++<br>30.0            | 0.401<br>40.0  | 1.00<br>80.0   | 9.99  | 20.0  |
| Xylene, o-                       | CBNZ d5 | Ave        | ++++<br>1023672 | 10698<br>1404854 | 37018<br>2842941  | 324629  | 682124  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Styrene                          | CBNZ d5 | Ave        | ++++<br>1508097 | 12771<br>2091050 | 44515<br>4397099  | 458477  | 989973  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Bromoform                        | CBNZ d5 | Ave        | ++++<br>1786749 | 14218<br>2402657 | 45302<br>4949992  | 499229  | 1145717 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Cumene                           | CBNZ d5 | Ave        | ++++<br>2881027 | 29316<br>3906358 | 102929<br>7867780 | 909531  | 1933574 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,1,2,2-Tetrachloroethane        | CBNZ d5 | Ave        | ++++<br>1621483 | 19155<br>2159927 | 61507<br>4019167  | 554025  | 1121447 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Propylbenzene                  | CBNZ d5 | Ave        | ++++<br>3288490 | 36213<br>4385780 | 119800<br>8320567 | 1089525 | 2240008 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,2,3-Trichloropropane           | CBNZ d5 | Ave        | ++++<br>1270074 | ++++<br>1670351  | 51656<br>3076363  | 446024  | 891121  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 2-Chlorotoluene                  | CBNZ d5 | Ave        | ++++<br>2394857 | 27020<br>3143263 | 91880<br>5683341  | 815176  | 1644169 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| 4-Ethyltoluene                   | CBNZ d5 | Ave        | ++++<br>2729221 | 27079<br>3650244 | 93651<br>6809555  | 884698  | 1848488 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| n-Decane                         | CBNZ d5 | Ave        | ++++<br>1274820 | ++++<br>1610403  | 47279<br>2812190  | 459985  | 878685  | ++++<br>15.0            | ++++<br>20.0   | 0.500<br>40.0  | 4.99  | 10.00 |
| 1,3,5-Trimethylbenzene           | CBNZ d5 | Ave        | ++++<br>2355671 | 23114<br>3234311 | 82054<br>6482761  | 745825  | 1554299 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| Alpha Methyl Styrene             | CBNZ d5 | Ave        | ++++<br>1218557 | 9587<br>1696220  | 34094<br>3568753  | 363686  | 777137  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |
| tert-Butylbenzene                | CBNZ d5 | Ave        | ++++<br>2213181 | 22836<br>3057243 | 80844<br>6126749  | 706952  | 1476064 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99  | 10.00 |



FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45925-1 Analy Batch No.: 134490

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/25/2018 19:24 Calibration End Date: 09/26/2018 14:32 Calibration ID: 40146

| ANALYTE                | IS REF  | CURVE TYPE | RESPONSE        |                  |                   |         |         | CONCENTRATION (PPB V/V) |                |                |               |       |       |
|------------------------|---------|------------|-----------------|------------------|-------------------|---------|---------|-------------------------|----------------|----------------|---------------|-------|-------|
|                        |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4   | LVL 5   | LVL 1<br>LVL 6          | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4         | LVL 5 |       |
| 1,2,4-Trimethylbenzene | CBNZ d5 | Ave        | ++++<br>2258916 | 22400<br>3111493 | 79078<br>6172904  | 737746  | 1476244 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| sec-Butylbenzene       | CBNZ d5 | Ave        | ++++<br>3192856 | 33915<br>4382203 | 119200<br>8564881 | 1050562 | 2159231 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 4-Isopropyltoluene     | CBNZ d5 | Ave        | ++++<br>2679915 | 25174<br>3679908 | 96795<br>7010047  | 859319  | 1798661 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 1,3-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1787525 | 17013<br>2451272 | 61656<br>4838613  | 546052  | 1133111 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 1,4-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1738722 | 16731<br>2422997 | 58721<br>5036134  | 521629  | 1096132 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Benzyl chloride        | CBNZ d5 | Ave        | ++++<br>2165678 | 19826<br>2712939 | 69476<br>5921582  | 684732  | 1436508 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| n-Butylbenzene         | CBNZ d5 | Ave        | ++++<br>2395940 | 22499<br>3260834 | 81104<br>6192942  | 800504  | 1610123 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| n-Undecane             | CBNZ d5 | Ave        | ++++<br>1227965 | ++++<br>1712579  | ++++<br>3079359   | 451882  | 795620  | ++++<br>15.0            | ++++<br>20.0   | ++++<br>40.0   | 4.99          | 10.00 |       |
| 1,2-Dichlorobenzene    | CBNZ d5 | Ave        | ++++<br>1615500 | 17178<br>2245183 | 57068<br>4673527  | 499077  | 1014364 | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| n-Dodecane             | CBNZ d5 | Ave        | ++++<br>877774  | 9844<br>1423741  | 29445<br>2280760  | 359642  | 376596  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 1,2,4-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>981312  | 9522<br>1508246  | 33213<br>3254723  | 298275  | 458411  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Hexachlorobutadiene    | CBNZ d5 | Ave        | ++++<br>1180429 | 13105<br>1699711 | 45377<br>3176485  | 381714  | 731369  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| Naphthalene            | CBNZ d5 | Ave        | ++++<br>1695005 | 17925<br>2650982 | 68782<br>5862768  | 516039  | 646954  | ++++<br>15.0            | 0.200<br>20.0  | 0.500<br>40.0  | 4.99          | 10.00 |       |
| 1,2,3-Trichlorobenzene | CBNZ d5 | Ave        | ++++<br>872237  | ++++<br>1387870  | 8206<br>2833143   | 37524   | 272805  | 379355                  | ++++<br>15.0   | 0.200<br>20.0  | 0.500<br>40.0 | 4.99  | 10.00 |

Curve Type Legend:

Ave = Average ISTD

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-134490/15 Calibration Date: 09/26/2018 04:37  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32354-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|-------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                     | Ave        | 0.5940  | 0.6372 |         | 10.7        | 10.0         | 7.3   | 30.0   |
| Dichlorodifluoromethane       | Ave        | 3.448   | 3.556  |         | 10.3        | 10.0         | 3.1   | 30.0   |
| Freon 22                      | Ave        | 1.483   | 1.573  |         | 10.6        | 10.0         | 6.0   | 30.0   |
| 1,2-Dichlorotetrafluoroethane | Ave        | 2.626   | 2.644  |         | 10.1        | 10.0         | 0.7   | 30.0   |
| Chloromethane                 | Ave        | 0.6890  | 0.7310 |         | 10.6        | 10.0         | 6.1   | 30.0   |
| n-Butane                      | Ave        | 0.9168  | 0.997  |         | 10.9        | 10.0         | 8.7   | 30.0   |
| Vinyl chloride                | Ave        | 0.8431  | 0.8441 |         | 10.0        | 10.0         | 0.1   | 30.0   |
| 1,3-Butadiene                 | Ave        | 0.5409  | 0.5460 |         | 10.1        | 10.0         | 0.9   | 30.0   |
| Bromomethane                  | Ave        | 0.9906  | 0.9870 |         | 9.96        | 10.0         | -0.4  | 30.0   |
| Chloroethane                  | Ave        | 0.3025  | 0.3097 |         | 10.2        | 10.0         | 2.4   | 30.0   |
| Isopentane                    | Ave        | 0.6558  | 0.6443 |         | 9.82        | 10.0         | -1.8  | 30.0   |
| Bromoethene (Vinyl Bromide)   | Ave        | 0.9331  | 0.9218 |         | 9.88        | 10.0         | -1.2  | 30.0   |
| Trichlorofluoromethane        | Ave        | 2.851   | 2.807  |         | 9.84        | 10.0         | -1.6  | 30.0   |
| n-Pentane                     | Ave        | 0.8883  | 0.9188 |         | 10.3        | 10.0         | 3.4   | 30.0   |
| Ethanol                       | Ave        | 0.2368  | 0.1912 |         | 12.1        | 15.0         | -19.3 | 30.0   |
| Ethyl ether                   | Ave        | 0.3287  | 0.3609 |         | 11.0        | 10.0         | 9.8   | 30.0   |
| Acrolein                      | Ave        | 0.1452  | 0.1661 |         | 11.4        | 10.0         | 14.4  | 30.0   |
| Freon TF                      | Ave        | 1.957   | 1.927  |         | 9.84        | 10.0         | -1.6  | 30.0   |
| 1,1-Dichloroethene            | Ave        | 0.8528  | 0.8171 |         | 9.58        | 10.0         | -4.2  | 30.0   |
| Acetone                       | Ave        | 0.8507  | 0.8805 |         | 10.3        | 10.0         | 3.5   | 30.0   |
| Carbon disulfide              | Ave        | 2.285   | 2.345  |         | 10.3        | 10.0         | 2.6   | 30.0   |
| Isopropyl alcohol             | Ave        | 0.8053  | 0.8735 |         | 10.8        | 10.0         | 8.5   | 30.0   |
| 3-Chloropropene               | Ave        | 0.6715  | 0.5970 |         | 8.89        | 10.0         | -11.1 | 30.0   |
| Acetonitrile                  | Ave        | 0.3135  | 0.3280 |         | 10.5        | 10.0         | 4.6   | 30.0   |
| Methylene Chloride            | Ave        | 0.7919  | 0.8199 |         | 10.4        | 10.0         | 3.5   | 30.0   |
| tert-Butyl alcohol            | Ave        | 1.189   | 1.227  |         | 10.3        | 10.0         | 3.2   | 30.0   |
| Methyl tert-butyl ether       | Ave        | 1.830   | 1.780  |         | 9.73        | 10.0         | -2.7  | 30.0   |
| trans-1,2-Dichloroethene      | Ave        | 0.9688  | 1.062  |         | 11.0        | 10.0         | 9.6   | 30.0   |
| Acrylonitrile                 | Ave        | 0.3239  | 0.3353 |         | 10.3        | 10.0         | 3.5   | 30.0   |
| n-Hexane                      | Ave        | 0.8050  | 0.8096 |         | 10.1        | 10.0         | 0.6   | 30.0   |
| 1,1-Dichloroethane            | Ave        | 1.353   | 1.324  |         | 9.78        | 10.0         | -2.1  | 30.0   |
| Vinyl acetate                 | Ave        | 1.259   | 1.316  |         | 10.5        | 10.0         | 4.6   | 30.0   |
| cis-1,2-Dichloroethene        | Ave        | 0.8682  | 0.8512 |         | 9.80        | 10.0         | -2.0  | 30.0   |
| Methyl Ethyl Ketone           | Ave        | 0.2812  | 0.2713 |         | 9.65        | 10.0         | -3.5  | 30.0   |
| Ethyl acetate                 | Ave        | 0.0410  | 0.0408 |         | 9.93        | 10.0         | -0.7  | 30.0   |
| Tetrahydrofuran               | Ave        | 0.1162  | 0.1214 |         | 10.4        | 10.0         | 4.4   | 30.0   |
| Chloroform                    | Ave        | 2.070   | 2.048  |         | 9.89        | 10.0         | -1.1  | 30.0   |
| Cyclohexane                   | Ave        | 0.1977  | 0.1974 |         | 9.98        | 10.0         | -0.1  | 30.0   |
| 1,1,1-Trichloroethane         | Ave        | 0.5077  | 0.5025 |         | 9.89        | 10.0         | -1.0  | 30.0   |
| Carbon tetrachloride          | Ave        | 0.5557  | 0.5763 |         | 10.4        | 10.0         | 3.7   | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-134490/15 Calibration Date: 09/26/2018 04:37  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32354-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D   | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| 2,2,4-Trimethylpentane           | Ave        | 0.6995  | 0.7309 |         | 10.4        | 10.0         | 4.5  | 30.0   |
| Benzene                          | Ave        | 0.5204  | 0.5045 |         | 9.69        | 10.0         | -3.0 | 30.0   |
| 1,2-Dichloroethane               | Ave        | 0.3164  | 0.3226 |         | 10.2        | 10.0         | 2.0  | 30.0   |
| n-Heptane                        | Ave        | 0.2468  | 0.2750 |         | 11.1        | 10.0         | 11.4 | 30.0   |
| n-Butanol                        | Ave        | 0.0896  | 0.0911 |         | 10.2        | 10.0         | 1.6  | 30.0   |
| Trichloroethene                  | Ave        | 0.3266  | 0.3002 |         | 9.19        | 10.0         | -8.1 | 30.0   |
| 1,2-Dichloropropane              | Ave        | 0.2179  | 0.2165 |         | 9.93        | 10.0         | -0.6 | 30.0   |
| Methyl methacrylate              | Ave        | 0.1637  | 0.1642 |         | 10.0        | 10.0         | 0.3  | 30.0   |
| Dibromomethane                   | Ave        | 0.2995  | 0.2825 |         | 9.43        | 10.0         | -5.7 | 30.0   |
| 1,4-Dioxane                      | Ave        | 0.1047  | 0.1095 |         | 10.5        | 10.0         | 4.6  | 30.0   |
| Bromodichloromethane             | Ave        | 0.5461  | 0.5481 |         | 10.0        | 10.0         | 0.4  | 30.0   |
| cis-1,3-Dichloropropene          | Ave        | 0.3550  | 0.3577 |         | 10.1        | 10.0         | 0.7  | 30.0   |
| methyl isobutyl ketone           | Ave        | 0.3488  | 0.3706 |         | 10.6        | 10.0         | 6.3  | 30.0   |
| Toluene                          | Ave        | 0.4431  | 0.4241 |         | 9.57        | 10.0         | -4.3 | 30.0   |
| n-Octane                         | Ave        | 0.4106  | 0.4274 |         | 10.4        | 10.0         | 4.1  | 30.0   |
| trans-1,3-Dichloropropene        | Ave        | 0.3498  | 0.3450 |         | 9.86        | 10.0         | -1.4 | 30.0   |
| 1,1,2-Trichloroethane            | Ave        | 0.2474  | 0.2451 |         | 9.90        | 10.0         | -0.9 | 30.0   |
| Tetrachloroethene                | Ave        | 0.4712  | 0.4285 |         | 9.09        | 10.0         | -9.1 | 30.0   |
| Methyl Butyl Ketone (2-Hexanone) | Ave        | 0.3774  | 0.3808 |         | 10.1        | 10.0         | 0.9  | 30.0   |
| Dibromochloromethane             | Ave        | 0.6345  | 0.6099 |         | 9.61        | 10.0         | -3.9 | 30.0   |
| 1,2-Dibromoethane                | Ave        | 0.4828  | 0.4735 |         | 9.80        | 10.0         | -1.9 | 30.0   |
| Chlorobenzene                    | Ave        | 0.6444  | 0.6076 |         | 9.43        | 10.0         | -5.7 | 30.0   |
| Ethylbenzene                     | Ave        | 0.9624  | 0.9366 |         | 9.73        | 10.0         | -2.7 | 30.0   |
| n-Nonane                         | Ave        | 0.4114  | 0.4327 |         | 10.5        | 10.0         | 5.2  | 30.0   |
| m,p-Xylene                       | Ave        | 0.3851  | 0.3714 |         | 19.3        | 20.0         | -3.6 | 30.0   |
| Xylene, o-                       | Ave        | 0.3793  | 0.3730 |         | 9.83        | 10.0         | -1.7 | 30.0   |
| Styrene                          | Ave        | 0.5285  | 0.5411 |         | 10.2        | 10.0         | 2.4  | 30.0   |
| Bromoform                        | Ave        | 0.5930  | 0.5406 |         | 9.12        | 10.0         | -8.8 | 30.0   |
| Cumene                           | Ave        | 1.058   | 1.047  |         | 9.89        | 10.0         | -1.1 | 30.0   |
| 1,1,2,2-Tetrachloroethane        | Ave        | 0.6151  | 0.6171 |         | 10.0        | 10.0         | 0.3  | 30.0   |
| n-Propylbenzene                  | Ave        | 1.221   | 1.236  |         | 10.1        | 10.0         | 1.2  | 30.0   |
| 1,2,3-Trichloropropane           | Ave        | 0.4813  | 0.4892 |         | 10.2        | 10.0         | 1.6  | 30.0   |
| 2-Chlorotoluene                  | Ave        | 0.8957  | 0.9137 |         | 10.2        | 10.0         | 2.0  | 30.0   |
| 4-Ethyltoluene                   | Ave        | 0.9843  | 1.013  |         | 10.3        | 10.0         | 2.9  | 30.0   |
| n-Decane                         | Ave        | 0.4671  | 0.5056 |         | 10.8        | 10.0         | 8.2  | 30.0   |
| 1,3,5-Trimethylbenzene           | Ave        | 0.8581  | 0.8654 |         | 10.1        | 10.0         | 0.8  | 30.0   |
| Alpha Methyl Styrene             | Ave        | 0.4181  | 0.4389 |         | 10.5        | 10.0         | 5.0  | 30.0   |
| tert-Butylbenzene                | Ave        | 0.8213  | 0.8090 |         | 9.85        | 10.0         | -1.5 | 30.0   |
| 1,2,4-Trimethylbenzene           | Ave        | 0.8270  | 0.8444 |         | 10.2        | 10.0         | 2.1  | 30.0   |
| sec-Butylbenzene                 | Ave        | 1.195   | 1.202  |         | 10.1        | 10.0         | 0.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-134490/15 Calibration Date: 09/26/2018 04:37  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32354-015.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D   | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| 4-Isopropyltoluene     | Ave        | 0.9735  | 0.997  |         | 10.2        | 10.0         | 2.4  | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.6389  | 0.6456 |         | 10.1        | 10.0         | 1.0  | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.6259  | 0.6305 |         | 10.1        | 10.0         | 0.7  | 30.0   |
| Benzyl chloride        | Ave        | 0.7623  | 0.8056 |         | 10.6        | 10.0         | 5.7  | 30.0   |
| n-Butylbenzene         | Ave        | 0.8652  | 0.9289 |         | 10.7        | 10.0         | 7.4  | 30.0   |
| n-Undecane             | Ave        | 0.4568  | 0.5133 |         | 11.2        | 10.0         | 12.4 | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.5954  | 0.5873 |         | 9.86        | 10.0         | -1.4 | 30.0   |
| n-Dodecane             | Ave        | 0.3280  | 0.3733 |         | 11.4        | 10.0         | 13.8 | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.3546  | 0.3915 |         | 11.0        | 10.0         | 10.4 | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.4435  | 0.4443 |         | 10.0        | 10.0         | 0.2  | 30.0   |
| Naphthalene            | Ave        | 0.6323  | 0.7069 |         | 11.2        | 10.0         | 11.8 | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.3260  | 0.3369 |         | 10.3        | 10.0         | 3.4  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                       | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|-------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Propylene                     | Ave        | 0.5940  | 0.7833 |         | 13.2        | 10.0         | 31.9* | 30.0   |
| Dichlorodifluoromethane       | Ave        | 3.448   | 4.105  |         | 11.9        | 10.0         | 19.1  | 30.0   |
| Freon 22                      | Ave        | 1.483   | 1.812  |         | 12.2        | 10.0         | 22.2  | 30.0   |
| 1,2-Dichlorotetrafluoroethane | Ave        | 2.626   | 2.949  |         | 11.2        | 10.0         | 12.3  | 30.0   |
| Chloromethane                 | Ave        | 0.6890  | 0.8545 |         | 12.4        | 10.0         | 24.0  | 30.0   |
| n-Butane                      | Ave        | 0.9168  | 1.222  |         | 13.3        | 10.0         | 33.3* | 30.0   |
| Vinyl chloride                | Ave        | 0.8431  | 0.9337 |         | 11.1        | 10.0         | 10.8  | 30.0   |
| 1,3-Butadiene                 | Ave        | 0.5409  | 0.5884 |         | 10.9        | 10.0         | 8.8   | 30.0   |
| Bromomethane                  | Ave        | 0.9906  | 1.020  |         | 10.3        | 10.0         | 2.9   | 30.0   |
| Chloroethane                  | Ave        | 0.3025  | 0.3216 |         | 10.6        | 10.0         | 6.3   | 30.0   |
| Isopentane                    | Ave        | 0.6558  | 0.7778 |         | 11.9        | 10.0         | 18.6  | 30.0   |
| Bromoethene (Vinyl Bromide)   | Ave        | 0.9331  | 0.9380 |         | 10.1        | 10.0         | 0.5   | 30.0   |
| Trichlorofluoromethane        | Ave        | 2.851   | 3.015  |         | 10.6        | 10.0         | 5.8   | 30.0   |
| n-Pentane                     | Ave        | 0.8883  | 1.083  |         | 12.2        | 10.0         | 22.0  | 30.0   |
| Ethanol                       | Ave        | 0.2368  | 0.2937 |         | 18.6        | 15.0         | 24.1  | 30.0   |
| Ethyl ether                   | Ave        | 0.3287  | 0.3859 |         | 11.7        | 10.0         | 17.4  | 30.0   |
| Acrolein                      | Ave        | 0.1452  | 0.1526 |         | 10.5        | 10.0         | 5.1   | 30.0   |
| Freon TF                      | Ave        | 1.957   | 2.025  |         | 10.3        | 10.0         | 3.5   | 30.0   |
| 1,1-Dichloroethene            | Ave        | 0.8528  | 0.8874 |         | 10.4        | 10.0         | 4.1   | 30.0   |
| Acetone                       | Ave        | 0.8507  | 1.006  |         | 11.8        | 10.0         | 18.2  | 30.0   |
| Carbon disulfide              | Ave        | 2.285   | 2.662  |         | 11.6        | 10.0         | 16.5  | 30.0   |
| Isopropyl alcohol             | Ave        | 0.8053  | 0.9811 |         | 12.2        | 10.0         | 21.8  | 30.0   |
| 3-Chloropropene               | Ave        | 0.6715  | 0.8161 |         | 12.2        | 10.0         | 21.5  | 30.0   |
| Acetonitrile                  | Ave        | 0.3135  | 0.3638 |         | 11.6        | 10.0         | 16.0  | 30.0   |
| Methylene Chloride            | Ave        | 0.7919  | 0.9733 |         | 12.3        | 10.0         | 22.9  | 30.0   |
| tert-Butyl alcohol            | Ave        | 1.189   | 1.425  |         | 12.0        | 10.0         | 19.8  | 30.0   |
| Methyl tert-butyl ether       | Ave        | 1.830   | 1.941  |         | 10.6        | 10.0         | 6.1   | 30.0   |
| trans-1,2-Dichloroethene      | Ave        | 0.9688  | 1.217  |         | 12.6        | 10.0         | 25.6  | 30.0   |
| Acrylonitrile                 | Ave        | 0.3239  | 0.3572 |         | 11.0        | 10.0         | 10.3  | 30.0   |
| n-Hexane                      | Ave        | 0.8050  | 0.9462 |         | 11.8        | 10.0         | 17.5  | 30.0   |
| 1,1-Dichloroethane            | Ave        | 1.353   | 1.492  |         | 11.0        | 10.0         | 10.3  | 30.0   |
| Vinyl acetate                 | Ave        | 1.259   | 1.496  |         | 11.9        | 10.0         | 18.8  | 30.0   |
| cis-1,2-Dichloroethene        | Ave        | 0.8682  | 0.9248 |         | 10.6        | 10.0         | 6.5   | 30.0   |
| Methyl Ethyl Ketone           | Ave        | 0.2812  | 0.2836 |         | 10.1        | 10.0         | 0.8   | 30.0   |
| Ethyl acetate                 | Ave        | 0.0410  | 0.0429 |         | 10.5        | 10.0         | 4.6   | 30.0   |
| Tetrahydrofuran               | Ave        | 0.1162  | 0.1557 |         | 13.4        | 10.0         | 34.0* | 30.0   |
| Chloroform                    | Ave        | 2.070   | 2.246  |         | 10.8        | 10.0         | 8.5   | 30.0   |
| Cyclohexane                   | Ave        | 0.1977  | 0.2338 |         | 11.8        | 10.0         | 18.3  | 30.0   |
| 1,1,1-Trichloroethane         | Ave        | 0.5077  | 0.6047 |         | 11.9        | 10.0         | 19.1  | 30.0   |
| Carbon tetrachloride          | Ave        | 0.5557  | 0.7027 |         | 12.6        | 10.0         | 26.5  | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                          | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 2,2,4-Trimethylpentane           | Ave        | 0.6995  | 0.8660 |         | 12.4        | 10.0         | 23.8  | 30.0   |
| Benzene                          | Ave        | 0.5204  | 0.5704 |         | 11.0        | 10.0         | 9.6   | 30.0   |
| 1,2-Dichloroethane               | Ave        | 0.3164  | 0.3943 |         | 12.5        | 10.0         | 24.6  | 30.0   |
| n-Heptane                        | Ave        | 0.2468  | 0.3468 |         | 14.0        | 10.0         | 40.5* | 30.0   |
| n-Butanol                        | Ave        | 0.0896  | 0.1050 |         | 11.7        | 10.0         | 17.1  | 30.0   |
| Trichloroethene                  | Ave        | 0.3266  | 0.3408 |         | 10.4        | 10.0         | 4.3   | 30.0   |
| 1,2-Dichloropropane              | Ave        | 0.2179  | 0.2284 |         | 10.5        | 10.0         | 4.8   | 30.0   |
| Methyl methacrylate              | Ave        | 0.1637  | 0.1677 |         | 10.2        | 10.0         | 2.4   | 30.0   |
| Dibromomethane                   | Ave        | 0.2995  | 0.3239 |         | 10.8        | 10.0         | 8.1   | 30.0   |
| 1,4-Dioxane                      | Ave        | 0.1047  | 0.1113 |         | 10.6        | 10.0         | 6.2   | 30.0   |
| Bromodichloromethane             | Ave        | 0.5461  | 0.6321 |         | 11.6        | 10.0         | 15.7  | 30.0   |
| cis-1,3-Dichloropropene          | Ave        | 0.3550  | 0.3991 |         | 11.2        | 10.0         | 12.4  | 30.0   |
| methyl isobutyl ketone           | Ave        | 0.3488  | 0.4692 |         | 13.5        | 10.0         | 34.5* | 30.0   |
| Toluene                          | Ave        | 0.4431  | 0.4426 |         | 9.99        | 10.0         | -0.1  | 30.0   |
| n-Octane                         | Ave        | 0.4106  | 0.5309 |         | 12.9        | 10.0         | 29.3  | 30.0   |
| trans-1,3-Dichloropropene        | Ave        | 0.3498  | 0.3937 |         | 11.3        | 10.0         | 12.5  | 30.0   |
| 1,1,2-Trichloroethane            | Ave        | 0.2474  | 0.2584 |         | 10.4        | 10.0         | 4.5   | 30.0   |
| Tetrachloroethene                | Ave        | 0.4712  | 0.4888 |         | 10.4        | 10.0         | 3.8   | 30.0   |
| Methyl Butyl Ketone (2-Hexanone) | Ave        | 0.3774  | 0.4828 |         | 12.8        | 10.0         | 27.9  | 30.0   |
| Dibromochloromethane             | Ave        | 0.6345  | 0.6909 |         | 10.9        | 10.0         | 8.9   | 30.0   |
| 1,2-Dibromoethane                | Ave        | 0.4828  | 0.4981 |         | 10.3        | 10.0         | 3.2   | 30.0   |
| Chlorobenzene                    | Ave        | 0.6444  | 0.6533 |         | 10.1        | 10.0         | 1.4   | 30.0   |
| Ethylbenzene                     | Ave        | 0.9624  | 0.9938 |         | 10.3        | 10.0         | 3.3   | 30.0   |
| n-Nonane                         | Ave        | 0.4114  | 0.4733 |         | 11.5        | 10.0         | 15.1  | 30.0   |
| m,p-Xylene                       | Ave        | 0.3851  | 0.3970 |         | 20.6        | 20.0         | 3.1   | 30.0   |
| Xylene, o-                       | Ave        | 0.3793  | 0.3928 |         | 10.4        | 10.0         | 3.5   | 30.0   |
| Styrene                          | Ave        | 0.5285  | 0.5726 |         | 10.8        | 10.0         | 8.3   | 30.0   |
| Bromoform                        | Ave        | 0.5930  | 0.6360 |         | 10.7        | 10.0         | 7.3   | 30.0   |
| Cumene                           | Ave        | 1.058   | 1.116  |         | 10.5        | 10.0         | 5.5   | 30.0   |
| 1,1,2,2-Tetrachloroethane        | Ave        | 0.6151  | 0.6531 |         | 10.6        | 10.0         | 6.2   | 30.0   |
| n-Propylbenzene                  | Ave        | 1.221   | 1.336  |         | 10.9        | 10.0         | 9.4   | 30.0   |
| 1,2,3-Trichloropropane           | Ave        | 0.4813  | 0.5359 |         | 11.1        | 10.0         | 11.3  | 30.0   |
| 2-Chlorotoluene                  | Ave        | 0.8957  | 1.027  |         | 11.5        | 10.0         | 14.6  | 30.0   |
| 4-Ethyltoluene                   | Ave        | 0.9843  | 1.109  |         | 11.3        | 10.0         | 12.6  | 30.0   |
| n-Decane                         | Ave        | 0.4671  | 0.5599 |         | 12.0        | 10.0         | 19.9  | 30.0   |
| 1,3,5-Trimethylbenzene           | Ave        | 0.8581  | 0.9290 |         | 10.8        | 10.0         | 8.3   | 30.0   |
| Alpha Methyl Styrene             | Ave        | 0.4181  | 0.4770 |         | 11.4        | 10.0         | 14.1  | 30.0   |
| tert-Butylbenzene                | Ave        | 0.8213  | 0.8727 |         | 10.6        | 10.0         | 6.3   | 30.0   |
| 1,2,4-Trimethylbenzene           | Ave        | 0.8270  | 0.9132 |         | 11.0        | 10.0         | 10.4  | 30.0   |
| sec-Butylbenzene                 | Ave        | 1.195   | 1.306  |         | 10.9        | 10.0         | 9.3   | 30.0   |

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45925-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-136163/3 Calibration Date: 10/31/2018 13:56  
 Instrument ID: CHG.i Calib Start Date: 09/25/2018 19:24  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/26/2018 14:32  
 Lab File ID: 200-32939-003.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

| ANALYTE                | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 4-Isopropyltoluene     | Ave        | 0.9735  | 1.114  |         | 11.4        | 10.0         | 14.4  | 30.0   |
| 1,3-Dichlorobenzene    | Ave        | 0.6389  | 0.7282 |         | 11.4        | 10.0         | 14.0  | 30.0   |
| 1,4-Dichlorobenzene    | Ave        | 0.6259  | 0.7083 |         | 11.3        | 10.0         | 13.2  | 30.0   |
| Benzyl chloride        | Ave        | 0.7623  | 0.8784 |         | 11.5        | 10.0         | 15.2  | 30.0   |
| n-Butylbenzene         | Ave        | 0.8652  | 1.036  |         | 12.0        | 10.0         | 19.8  | 30.0   |
| n-Undecane             | Ave        | 0.4568  | 0.5208 |         | 11.4        | 10.0         | 14.0  | 30.0   |
| 1,2-Dichlorobenzene    | Ave        | 0.5954  | 0.6647 |         | 11.2        | 10.0         | 11.6  | 30.0   |
| n-Dodecane             | Ave        | 0.3280  | 0.4301 |         | 13.1        | 10.0         | 31.1* | 30.0   |
| 1,2,4-Trichlorobenzene | Ave        | 0.3546  | 0.3896 |         | 11.0        | 10.0         | 9.9   | 30.0   |
| Hexachlorobutadiene    | Ave        | 0.4435  | 0.4729 |         | 10.7        | 10.0         | 6.6   | 30.0   |
| Naphthalene            | Ave        | 0.6323  | 0.7112 |         | 11.2        | 10.0         | 12.5  | 30.0   |
| 1,2,3-Trichlorobenzene | Ave        | 0.3260  | 0.3439 |         | 10.5        | 10.0         | 5.5   | 30.0   |

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i Start Date: 09/25/2018 16:54

Analysis Batch Number: 134490 End Date: 09/26/2018 14:32

| LAB SAMPLE ID       | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID     | COLUMN ID         |
|---------------------|------------------|------------------|-----------------|-----------------|-------------------|
| BFB 200-134490/1    |                  | 09/25/2018 16:54 | 1               | 200-32354-001.D | RTX-624 0.32 (mm) |
| VIBLK 200-134490/2  |                  | 09/25/2018 17:44 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-134490/3  |                  | 09/25/2018 18:34 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 09/25/2018 19:24 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 09/25/2018 20:15 | 1               |                 | RTX-624 0.32 (mm) |
| IC 200-134490/6     |                  | 09/25/2018 21:05 | 1               | 200-32354-006.D | RTX-624 0.32 (mm) |
| IC 200-134490/7     |                  | 09/25/2018 21:56 | 1               | 200-32354-007.D | RTX-624 0.32 (mm) |
| ICIS 200-134490/8   |                  | 09/25/2018 22:46 | 1               | 200-32354-008.D | RTX-624 0.32 (mm) |
| IC 200-134490/9     |                  | 09/25/2018 23:36 | 1               | 200-32354-009.D | RTX-624 0.32 (mm) |
| IC 200-134490/10    |                  | 09/26/2018 00:26 | 1               | 200-32354-010.D | RTX-624 0.32 (mm) |
| IC 200-134490/11    |                  | 09/26/2018 01:17 | 1               | 200-32354-011.D | RTX-624 0.32 (mm) |
| VIBLK 200-134490/12 |                  | 09/26/2018 02:07 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-134490/13 |                  | 09/26/2018 02:57 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 09/26/2018 03:47 | 1               |                 | RTX-624 0.32 (mm) |
| ICV 200-134490/15   |                  | 09/26/2018 04:37 | 1               | 200-32354-015.D | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 09/26/2018 05:27 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-134490/17 |                  | 09/26/2018 06:18 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ               |                  | 09/26/2018 11:11 | 1               |                 | RTX-624 0.32 (mm) |
| IC 200-134490/19    |                  | 09/26/2018 12:01 | 1               | 200-32354-019.D | RTX-624 0.32 (mm) |
| VIBLK 200-134490/20 |                  | 09/26/2018 12:52 | 1               |                 | RTX-624 0.32 (mm) |
| VIBLK 200-134490/21 |                  | 09/26/2018 13:42 | 1               |                 | RTX-624 0.32 (mm) |
| IC 200-134490/22    |                  | 09/26/2018 14:32 | 1               | 200-32354-022.D | RTX-624 0.32 (mm) |



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45925-1

SDG No.: \_\_\_\_\_

Instrument ID: CHG.i Start Date: 10/31/2018 12:13

Analysis Batch Number: 136163 End Date: 11/01/2018 08:13

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID     | COLUMN ID         |
|--------------------|------------------|------------------|-----------------|-----------------|-------------------|
| BFB 200-136163/1   |                  | 10/31/2018 12:13 | 1               | 200-32939-001.D | RTX-624 0.32 (mm) |
| CCVIS 200-136163/3 |                  | 10/31/2018 13:56 | 1               | 200-32939-003.D | RTX-624 0.32 (mm) |
| LCS 200-136163/4   |                  | 10/31/2018 14:46 | 1               | 200-32939-004.D | RTX-624 0.32 (mm) |
| MB 200-136163/5    |                  | 10/31/2018 15:37 | 1               | 200-32939-005.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 16:27 | 20              |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 17:17 | 8               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 18:07 | 2               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 18:57 | 8               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 21:28 | 8               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 22:18 | 2               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 23:08 | 70.2            |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 10/31/2018 23:58 | 1               |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 11/01/2018 00:48 | 1               |                 | RTX-624 0.32 (mm) |
| 200-45925-11       |                  | 11/01/2018 02:29 | 0.2             | 200-32939-018.D | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 11/01/2018 03:20 | 0.2             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 11/01/2018 04:12 | 0.2             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 11/01/2018 05:03 | 0.2             |                 | RTX-624 0.32 (mm) |
| ZZZZZ              |                  | 11/01/2018 08:13 | 56.2            |                 | RTX-624 0.32 (mm) |

# Shipping and Receiving Documents

TestAmerica Burlington  
 30 Community Drive  
 Suite 11  
 South Burlington, VT 05403-6809  
 phone 802.660.1990 fax 802.660.1919


# Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

| Client Contact Information                     |                | Client Project Manager: AMY TOROAN |           | Samples Collected By: VICTOR CHANG     |                                      |                    |             |                                 |           |        |         |             |           | COC No:                                 |             |                        |          |          |                             |              |   |                              |
|--|----------------|------------------------------------|-----------|--|--------------------------------------|--------------------|-------------|---------------------------------|-----------|--------|---------|-------------|-----------|---|-------------|------------------------|----------|----------|-----------------------------|--------------|---|------------------------------|
| Company Name: AKRF, Inc.                       |                | Phone: 646-388-4864                |           |  |                                      |                    |             |                                 |           |        |         |             |           | 1 of 2 COCs                             |             |                        |          |          |                             |              |   |                              |
| Address: 440 Park Ave S                        |                | Email: AJORDAN@AKRF.COM            |           |  |                                      |                    |             |                                 |           |        |         |             |           | For Lab Use Only:                       |             |                        |          |          |                             |              |   |                              |
| City/State/Zip: NY, NY 10016                   |                | Site Contact: VICTOR CHANG         |           |  |                                      |                    |             |                                 |           |        |         |             |           | Walk-in Client:                         |             |                        |          |          |                             |              |   |                              |
| Phone: 212-696-0670                            |                | Tel/Fax: 718-8646324               |           |  |                                      |                    |             |                                 |           |        |         |             |           | Lab Sampling:                           |             |                        |          |          |                             |              |   |                              |
| Project Name: Elton Crossing (Melrose C Field) |                | Analysis Turnaround Time           |           |  |                                      |                    |             |                                 |           |        |         |             |           | Job / SDG No.:                          |             |                        |          |          |                             |              |   |                              |
| Site/Location: Bronx, NY                       |                | Standard (Specific):               |           |  |                                      |                    |             |                                 |           |        |         |             |           | (See below for 'Add'l' Items)           |             |                        |          |          |                             |              |   |                              |
| P O # 11901-0830                               |                | Rush (Specific):                   |           |  |                                      |                    |             |                                 |           |        |         |             |           | Sample Specific Notes:                  |             |                        |          |          |                             |              |   |                              |
| Sample Identification                          | Sample Date(s) | Time Start                         | Time Stop | Canister Vacuum in Field, 'Hg (Starty) | Canister Vacuum in Field, 'Hg (Stop) | Flow Controller ID | Canister ID | TO-14/15 (Standard / Low Level) | TO-15 SIM | EPA 3C | EPA 25C | ASTM D-1946 | EPA 15/16 | Other (Please specify in notes section) | Sample Type | Indoor Air/Ambient Air | Sub-Slab | Soil Gas | Soil Vapor Extraction (SVE) | Landfill Gas | Other (Please specify in notes section) |                              |
| AA-1-20181120                                  | 11/20/18       | 1300                               | 1627      | -30.0                                  | -17.0                                | 4055               | 4141        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   | *Attempt to run UNIDENTIFIED |
| IA-1-20181120                                  |                | 1257                               | 1344      | -30.0                                  | -3.5                                 | 3294               | 3036        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| IA-2-20181120                                  |                | 1253                               | 1259      | -27.0                                  | -4.0                                 | 3167               | 3424        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| IA-3-20181120                                  |                | 1251                               | 1300      | -29.0                                  | -5.5                                 | 2807               | 5982        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| IA-4-20181120                                  |                | 1249                               | 1301      | -30.0                                  | -7.0                                 | 3188               | 5017        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| IA-5-20181120                                  |                | 1255                               | 1258      | -29.0                                  | -3.0                                 | 3664               | 5634        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| MP-1-20181120                                  |                | 1258                               | 1515      | -29.0                                  | -13.0                                | 4500               | 5447        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   | *Attempt to run UNIDENTIFIED |
| MP-2-20181120                                  |                | 1254                               | 1259      | -30.0                                  | -7.0                                 | 2806               | 2512        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| MP-3-20181120                                  |                | 1252                               | 1300      | -30.0                                  | -5.0                                 | 4212               | 4445        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |
| MP-4-20181120                                  |                | 1250                               | 0745      | -30.0                                  | -1.5                                 | 2772               | 5154        | X                               |           |        |         |             |           |   | X           |                        |          |          |                             |              |   |                              |



200-46353 Chain of Custody

Special Instructions/QC Requirements & Comments:  
 Cont B Deliverables; Std. TAT; AKRF Equips Deliverables

|                      |                          |
|----------------------|--------------------------|
| Start Interior: 60°F | Temperature (Fahrenheit) |
| Start Stop: 60°F     | Ambient: 44°F            |
| Start Interior: -    | Pressure (inches of Hg)  |
| Start Stop: -        | Ambient: 30.14 Hg        |
|                      | Ambient: 29.86 Hg        |

Samples Shipped by: [Signature]

Samples Relinquished by: [Signature]

Relinquished by: [Signature]

Lab Use Only: [Signature]

Samples Received by: [Signature]

Received by: [Signature]

Received by: [Signature]

Condition: [Signature]

Del: [Signature] 11/21/18

Edge: [Signature] 11/23/18

170



CONDOMINIUM  
TESTAMERICA NYC  
47 32 20th PLACE,  
SUITE 114  
LONG ISLAND CITY NY 11101  
UNITED STATES US

SHIP TO: 718 4718  
ACTWGT: 10.00 LB  
CALD: 12377997/NCT4040

BILL TO: RECIPIENT

TO **SAMPLING RECEIVING BVT**  
**TESTAMERICA**  
**30 COMMUNITY DR STE 11**

**SOUTH BURLINGTON VT 05403**  
REF: (802) 660-1990  
INV. PO:

DEPT:



1912110081501149

**FRI - 23 NOV 10:30A**  
**PRIORITY OVERNIGHT**

2 of 4

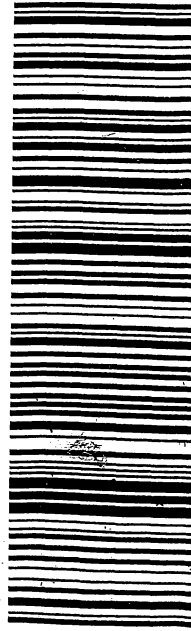
MPS# **7737 8322 5411**  
0263  
Mstr# 7737 8322 5308

0201

**NC BTVA**

VT-US

**05403**  
**BTV**



Page 1499 of 1501

TESTAMERICA NYC  
47 32 20th PLACE,  
SUITE 114  
LONG ISLAND CITY NY 11101  
UNITED STATES US

SHIP TO: 718 4718  
ACTWGT: 10.00 LB  
CALD: 12377997/NCT4040

BILL TO: RECIPIENT

TO **SAMPLING RECEIVING BVT**  
**TESTAMERICA**  
**30 COMMUNITY DR STE 11**

**SOUTH BURLINGTON VT 05403**  
REF: (802) 660-1990  
INV. PO:

DEPT:



1912110081501149

**FRI - 23 NOV 10:30A**  
**PRIORITY OVERNIGHT**

3 of 4

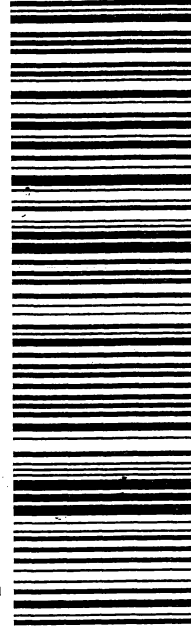
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0263  
Mstr# 7737 8322 5308

0201

**NC BTVA**

VT-US

**05403**  
**BTV**



PAID 4 08

TECH AMERICA INC  
1320 33rd Street  
Suite 1111  
Lonsdale, NY 11101  
UNITED STATES US  
(646) 745-096

SHIP DATE: 11/23/04  
SHIP TO: TESTAMERICA  
C/O: 1320 33rd Street  
Lonsdale, NY 11101

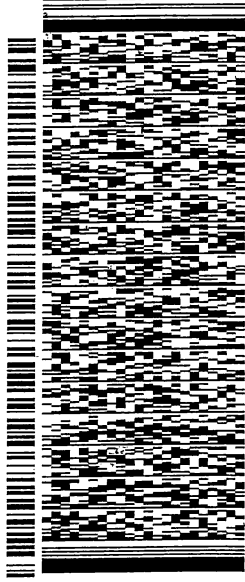
BILL RECIPIENT

TO **SAMPLING-RECEIVING BVT**  
**TESTAMERICA**  
**30 COMMUNITY DR STE 11**

**SOUTH BURLINGTON VT 05403**

(802) 660-1990 REF:  
INV:  
PO:

DEPT:



J19211008150104

55213/C3B2/DC/5

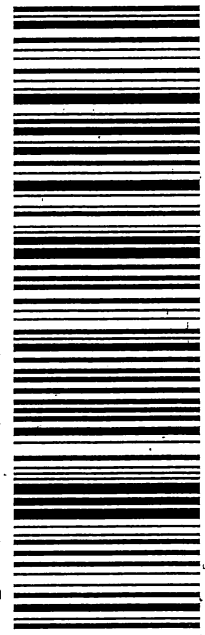
**FRI - 23 NOV 10:30A**  
**PRIORITY OVERNIGHT**

4 of 4

MPS# **7737 8322 5786**  
INV# **0263**  
Mstr# **7737 8322 5308**

0201

**NC BTVA** **05403**  
VT-US **BTV**



# Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-46353-1

SDG Number: 200-46353-1

**Login Number: 46353**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Johnson, Eleanor E**

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | True   | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.   | True   | Not present   |
| Sample custody seals, if present, are intact.   | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |   |
| Samples were received on ice.   | N/A    | Thermal preservation not required.                      |
| Cooler Temperature is acceptable.   | True   |   |
| Cooler Temperature is recorded.   | N/A    | Thermal preservation not required.                      |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| Is the Field Sampler's name present on COC?   | True   | VC  |
| There are no discrepancies between the containers received and the COC.                             | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | N/A    |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    | No analysis requiring residual chlorine check assigned. |

**APPENDIX F**  
**DATA USABILITY SUMMARY REPORT (DUSR)**



**DATA USABILITY SUMMARY REPORT (DUSR)**

**ORGANIC ANALYSIS**

**EPA Compendium Method TO-15  
VOLATILES BY GC/MS**

**For Sub-Slab, Indoor/Ambient Air Samples Collected  
November 19, 2018 through November 20, 2018  
From Elton Crossing  
Bronx, NY  
AKRF, Inc.  
Project #: 11901-030**

**SAMPLE DELIVERY GROUP NUMBER:  
200-46353-1  
TestAmerica Laboratories, Inc. (Burlington, VT.)  
ELAP #10391**

**SUBMITTED TO:**

**Ms. Amy Jordan  
AKRF, Inc.  
440 Park Avenue South, 7<sup>th</sup> Floor  
New York, NY 10016**

**December 22, 2018**



**PREPARED BY:**

**Lori A. Beyer/President  
L.A.B. Validation Corp.  
14 West Point Drive  
East Northport, NY 11731**

**Elton Crossing, Bronx, NY; November 2018 Sampling Event.**  
Data Validation Report: Volatile Organics - Air

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| 1.2  | Matrix Spikes (MS), Matrix Spike Duplicates (MSD)                |
| 1.3  | Laboratory Control Sample  |
| 1.4  | Blank Contamination  |
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**APPENDICES:**

- A. Chain of Custody Documents
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

**Introduction:**

A validation was performed on five (5) sub-slab and six (6) ambient/indoor air samples for volatile Organic analysis collected by AKRF, Inc. and submitted to TestAmerica Laboratories, Inc. (Burlington, VT) for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the eleven (11) field samples itemized below. The samples were collected on November 19, 2018 through November 20, 2018.

The samples were analyzed by TestAmerica Burlington utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the selected TO-15 Target Compound List (TCL) of analytes for Volatile Organics listed in Appendix C.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following air samples:

| <b>Sample Identification</b> | <b>Laboratory Identification</b> | <b>Sample Matrix</b> | <b>Collection Date</b> |
|------------------------------|----------------------------------|----------------------|------------------------|
| AA-1 20181120                | 200-46353-1                      | Ambient Air          | 11/19/18-11/20/18      |
| IA-1 20181120                | 200-46353-2                      | Indoor Air           | 11/19/18-11/20/18      |
| IA-2 20181120                | 200-46353-3                      | Indoor Air           | 11/19/18-11/20/18      |
| IA-3 20181120                | 200-46353-4                      | Indoor Air           | 11/19/18-11/20/18      |
| IA 4 20181120                | 200-46353-5                      | Indoor Air           | 11/19/18-11/20/18      |
| IA-5 20181120                | 200-46353-6                      | Indoor Air           | 11/19/18-11/20/18      |
| MP-1 20181120                | 200-46353-7                      | Sub-Slab             | 11/19/18-11/20/18      |
| MP-2 20181120                | 200-46353-8                      | Sub-Slab             | 11/19/18-11/20/18      |
| MP-3 20181120                | 200-46353-9                      | Sub-Slab             | 11/19/18-11/20/18      |
| MP-4 20181120                | 200-46353-10                     | Sub-Slab             | 11/19/18-11/20/18      |
| MP-5 20181120                | 200-46353-11                     | Sub-Slab             | 11/19/18-11/20/18      |

**Data Qualifier Definitions:**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

**U** - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

**J** - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

**J+** - The result is an estimated quantity, but the result may be biased high.

**J-** - The result is an estimated quantity, but the result may be biased low.

**NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

**UJ** - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**R** - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

**D** - Analyte concentration was obtained from diluted analysis.

**Sample Receipt:**

The Chain of Custody documents indicate that the air samples were shipped via Federal Express to TestAmerica Burlington and received on 11/23/18 following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Times of Sample Receipt (VTSR) no discrepancies were noted and therefore the integrity of the samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Additionally, post sampling Hg canister pressure should be between -1 and -10 ("Hg). Acceptable initial canister pressure was observed for IA-1\_20181120, IA-2\_20181120, IA-3\_20181120, IA-4\_20181120, IA-5\_20181120, MP-2\_20181120 and MP-3\_20181120 as documented on the chain of custody. Elevated vacuum pressure was recorded on the post =sampling air canister pressure check record for AA-1\_20181120 (-15.3"Hg), MP-1\_20181120 (-16.5"Hg). Results for detections have been qualified, "J" and non-detects, "UJ" for these samples. MP-4\_20181120 and MP-5\_20181120 were received at ambient pressure. These sample results were not qualified.

The data summary Form I's included in Appendix C and Equis deliverable includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's and onto the excel spreadsheet for ease of review and verification.

**NOTE:**

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

## **1.0 Volatile Organics by EPA Compendium Method TO-15**

The following method criteria were reviewed: holding times, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were valid and useable as noted on the data summary Form I's in Appendix C and within the following text:

### **1.1 Holding Time**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

**Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.**

### **1.2 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Duplicate Analysis**

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

**Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG. The laboratory performed LCS with each batch which is acceptable per the methodology. Acceptable recoveries (70-130%) were observed for all reported/spiked analytes.**

**No qualifications to the data were required based on MS/MSD data.**

**Field duplicate analysis was not conducted for this sampling event.**

### **1.3 Laboratory Control Sample**

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

| LCS                                       | NOT QUALIFIED | J           | R      |
|---|---------------|-------------|--------|
| <b>% Recovery:</b>                        |               |             |        |
| <b>Detects</b>                            | 70-130%       | <70%, >130% |        |
| <b>Non-Detects</b>                        | >=130%        | 50-69%      | <50%   |
| <b>Absolute RT of LCS Compounds:</b>      |               |             |        |
| <b>LCS Compounds in samples RT: (min)</b> | +/-0.33       |             | >=0.33 |

**Acceptable LCS was analyzed with this SDG pertaining to this sampling event. Recovery values for all spiked compounds was determined to be >70 %-< 130% for all analytes.**

#### **1.4 Blank Contamination**

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

| Blank Type                               | Blank Result | Sample Result  | Action for Samples                                   |
|--|--------------|--|--|
| Method, Storage, field, Trip, Instrument | Detects      | Not Detected   | No qualification required                            |
|  | <CRQL*       | <CRQL*   | Report CRQL value with a U                           |
|  |              | >= CRQL* and <2x the CRQL**                          | No qualification required                            |
|  | >CRQL*       | <= CRQL*   | Report CRQL value with a U                           |
|  |              | >=CRQL* and <= blank concentration                   | Report blank value for sample concentration with a U |
|  |              | >= CRQL* and > blank concentration                   | No qualification required                            |
|  | =CRQL*       | <= CRQL*   | Report CRQL value with a U                           |
| >CRQL*                                   |              | No qualification required                            |  |
| Gross Contamination**                    | Detects      | Report blank value for sample concentration with a U |  |

- \*2x the CRQL for methylene chloride, 2-butanone and acetone.
- \*\*4x the CRQL for methylene chloride, 2-butanone, and acetone
- \*\*\*Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

The table below is utilized to qualify samples with target compound results also present in certification blanks:

| Certification Contamination | Sample Result  | Action for Sample                  |
|-----------------------------|--|------------------------------------|
| >/=detect limit             | >5x certification contamination                              | No qualification required          |
| >/=detect limit             | <detect limit  | Detection limit "U"                |
| >/=detect limit             | >/=detect limit and </= 5x certification contamination level | 5x certification contamination "U" |
| <detect limit               | </=detection limit and >/= detection limit                   | No qualification                   |

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

**A) Method Blank Contamination:**

**Method and Canister blanks were determined to be free of any contamination. Canister cleaning documentation met QC requirements.**

**B) Field Blank Contamination:**

**Field Blank analysis was not required.**

**C) Trip Blank Contamination:**

**Trip Blank was not required.**

**1.5 GC/MS Instrument Performance Check**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

**Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.**

## **1.6 Initial and Continuing Calibrations**

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The GC/MS must be calibrated at 5 concentrations that span the monitoring range of interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds.

The continuing calibration checks document that the instrument is giving satisfactory daily performance.

### **A) Response Factor GC/MS:**

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be  $\geq 0.05$  in both initial and continuing calibrations. A value  $< 0.05$  indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds can be  $> 0.01$  without qualification:

2-Butanone  
Carbon Disulfide  
Chloroethane  
Chloromethane  
1,2-Dibromoethane  
1,2-Dichloropropane  
1,4-Dioxane  
1,2-Dibromo-3-chloropropane  
Methylene Chloride

**All the response factors for the target analytes reported were found to be within acceptable limits ( $\geq 0.05$ ) [or  $\geq 0.01$  for the 9 compounds above], for the initial and continuing calibrations.**



**B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% (with poor responding compounds allowed to be up to 40%) and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Acceptable ICV was analyzed (<30%) for all compounds.

**Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) for all reported target compounds.**

**Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all reported target compounds.**

**1.7 Internal Standards**

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by (-60% to +140%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-20 seconds from the associated continuing calibration standard. If the area count is outside the (-60% to +140%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as biased high, estimated, "J+", and all non-detects as "R."

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

**Internal Standard area responses met QC requirements for all analysis pertaining to this SDG.**

#### **1.8 Target Compound List Identification**

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$ RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

**GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.**

#### **1.10 Compound Quantification and Reported Detection Limits**

GC/MS quantitative analysis is acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

**Sample results have been presented in ug/m<sup>3</sup> as well as ppbv in the laboratory package. Equis deliverable results are presented in ug/m<sup>3</sup>.**

**All samples were analyzed at the volumes presented on the Form I's. Reporting limits have been adjusted accordingly. IA-1\_20181120 and IA-5\_20181120 required reanalysis due to Acetone concentrations over the linear calibration range. The laboratory reported concentrations for this compound have been qualified, "D" as required and must be obtained from diluted reanalysis.**

**MP-1\_20181120 (1:50) and MW-2\_20181120 (1:20) were analyzed at dilutions due to non-target presence. Review of the raw data indicates dilution was appropriate. Analysis at higher concentration could not be performed. There is potential that lower level detections were lost in dilution. Reporting limits have been adjusted accordingly.**

**1.11 Overall System Performance**

**GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.**

Reviewer's Signature *Sou A. Beyer* Date 12/22/2018

**Appendix A  
Chain of Custody  
Documents**

TestAmerica Burlington  
 30 Community Drive  
 Suite 11  
 South Burlington, VT 05403-6809  
 phone 802.660.1990 fax 802.660.1919

### Canister Samples Chain of Custody Record

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

| Client Contact Information   |            | Client Project Manager: <u>AMY JORDAN</u> |       | Samples Collected By: <u>VICTOR CHANG</u> |       |                                      |      |                                       |  |                                      |  |                                 |  | COC No: <u>1</u> of <u>2</u> COCs       |  |   |  |
|--|------------|---|-------|---|-------|--------------------------------------|------|---------------------------------------|--|--------------------------------------|--|---------------------------------|--|---|--|---|--|
| Company Name: <u>AKRF, Inc.</u>  |            | Phone: <u>646-388-9864</u>                |       | EPA 15/16                                 |       | EPA 25C                              |      | EPA 3C                                |  | TO-15 SIM                            |  | TO-14/15 (Standard / Low Level) |  | Other (Please specify in notes section) |  | Other (Please specify in notes section) |  |
| Address: <u>420 Park Ave S</u>   |            | Email: <u>AJORDAN@AKRF.COM</u>            |       | ASTM D-1946                               |       | Soil Gas                             |      | Soil Vapor Extraction (SVE)           |  | Landfill Gas                         |  | Sample Type                     |  | Indoor Air/Ambient Air                  |  | Sub-Slab                                |  |
| City/State/Zip: <u>NY, NY 10016</u>  |            | Site Contact: <u>VICTOR CHANG</u>         |       | TO-15 SIM                                 |       | EPA 3C                               |      | EPA 25C                               |  | ASTM D-1946                          |  | EPA 15/16                       |  | Other (Please specify in notes section) |  | Sample Type                             |  |
| Phone: <u>212-696-0670</u>   |            | Tel/Fax: <u>718-856-3234</u>              |       | Canister Vacuum in Field, 'Hg (Start)     |       | Canister Vacuum in Field, 'Hg (Stop) |      | Flow Controller ID                    |  | Canister ID                          |  | TO-14/15 (Standard / Low Level) |  | EPA 3C                                  |  | EPA 25C                                 |  |
| FAX:   |            | Analysis Turnaround Time                  |       | Time Start                                |       | Time Stop                            |      | Canister ID                           |  | Canister ID                          |  | TO-15 SIM                       |  | ASTM D-1946                             |  | EPA 15/16                               |  |
| Project Name: <u>Elton Crossing (Malrose C Facility)</u>   |            | Standard (Specific): <u>X</u>             |       | Rush (Specify):                           |       | Rush (Specify):                      |      | Canister Vacuum in Field, 'Hg (Start) |  | Canister Vacuum in Field, 'Hg (Stop) |  | TO-14/15 (Standard / Low Level) |  | EPA 25C                                 |  | EPA 3C                                  |  |
| Site/Location: <u>Bronx, NY</u>  |            | Rush (Specify):                           |       | Sample Date(s)                            |       | Sample Date(s)                       |      | Flow Controller ID                    |  | Canister ID                          |  | TO-15 SIM                       |  | ASTM D-1946                             |  | EPA 15/16                               |  |
| P O # <u>11401-0030</u>  |            | Rush (Specify):                           |       | Sample Date(s)                            |       | Sample Date(s)                       |      | Flow Controller ID                    |  | Canister ID                          |  | TO-15 SIM                       |  | ASTM D-1946                             |  | EPA 15/16                               |  |
| AA-1-20181120  | 11/14/2018 | 1300                                      | 1627  | -30.0                                     | -17.0 | 4055                                 | 4141 | X                                     |  |                                      |  |                                 |  |   |  |   |  |
| IA-1-20181120  | 1257       | 1344                                      | -30.0 | -3.5                                      | 3294  | 3036                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| IA-2-20181120  | 1253       | 1259                                      | -27.0 | -4.0                                      | 3167  | 3424                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| IA-3-20181120  | 1251       | 1300                                      | -29.0 | -5.5                                      | 2807  | 5982                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| IA-4-20181120  | 1249       | 1301                                      | -30.0 | -7.0                                      | 3188  | 5017                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| IA-5-20181120  | 1255       | 1258                                      | -29.0 | -3.0                                      | 3664  | 5634                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| MP-1-20181120  | 1258       | 1515                                      | -29.0 | -13.0                                     | 4500  | 5447                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| MP-2-20181120  | 1254       | 1259                                      | -30.0 | -7.0                                      | 2806  | 2512                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| MP-3-20181120  | 1252       | 1300                                      | -30.0 | -5.0                                      | 4212  | 4445                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| MP-4-20181120  | 1250       | 0745                                      | -30.0 | -1.5                                      | 2772  | 5154                                 | X    |                                       |  |                                      |  |                                 |  |   |  |   |  |
| Start Stop   |            | Interior 60°F Exterior 60°F               |       | Ambient 49°F                              |       |                                      |      |                                       |  |                                      |  |                                 |  |   |  |   |  |
| Start Stop   |            | Interior - Exterior -                     |       | Ambient 30.19 Hg                          |       | Pressure (inches of Hg)              |      |                                       |  |                                      |  |                                 |  |   |  |   |  |
|  |            |   |       | 23.86 Hg                                  |       |                                      |      |                                       |  |                                      |  |                                 |  |   |  |   |  |
| Special Instructions/QC Requirements & Comments:<br><u>Cont B Deliverables; Std. TAT; AKRF Equips Deliverables</u> |            |   |       |   |       |                                      |      |                                       |  |                                      |  |                                 |  |   |  |   |  |
| Samples Shipped by:  |            | Date / Time:                              |       | Samples Received by:                      |       | Date / Time:                         |      | Received by:                          |  | Date / Time:                         |  | Received by:                    |  | Date / Time:                            |  | Received by:                            |  |
|  |            | 11/20/18                                  |       |   |       | 11/20/18                             |      | BN                                    |  | 11/20/18                             |  | BN                              |  | 11/20/18                                |  | BN                                      |  |
| Relinquished by:   |            | Date / Time:                              |       | Relinquished by:                          |       | Date / Time:                         |      | Relinquished by:                      |  | Date / Time:                         |  | Relinquished by:                |  | Date / Time:                            |  | Relinquished by:                        |  |
|  |            |   |       |   |       |                                      |      |                                       |  |                                      |  |                                 |  |   |  |   |  |
| Lab Use Only:  |            | Shipper Name:                             |       | Condition:                                |       | Condition:                           |      | Condition:                            |  | Condition:                           |  | Condition:                      |  | Condition:                              |  | Condition:                              |  |
|  |            |   |       |   |       |                                      |      |                                       |  |                                      |  |                                 |  |   |  |   |  |



200-46353 Chain of Custody

*Del: on 11/21/18*  
*170*  
*11/23/18*  
*BN*

**TestAmerica Burlington**  
 30 Community Drive  
 Suite 11  
 South Burlington, VT 05403-6809  
 phone 802.660.1990 fax 802.660.1919

**Canister Samples Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica Laboratories, Inc.

|  |  |  |  |   |  |                                   |  |
|--|--|--|--|---|--|-----------------------------------|--|
| Client Contact Information                         |  | Client Project Manager: <i>Am Jordan</i> |  | Samples Collected By: <b>VICTOR CHANG</b> |  | COC No: <u>2</u> of <u>2</u> COCs |  |
| Company Name: <b>AKRF, Inc</b>                     |  | Phone: <b>846-388-0804</b>               |  | Other (Please specify in notes section)   |  | For Lab Use Only:                 |  |
| Address: <b>440 Park Ave S</b>                     |  | Email: <b>AJordan@akrf.com</b>           |  | Landfill Gas                              |  | Walk-in Client:                   |  |
| City/State/Zip: <b>NY, NY 100</b>                  |  | Site Contact: <b>Nick Chang</b>          |  | Soil Vapor Extraction (SVE)               |  | Lab Sampling:                     |  |
| Phone: <b>212-642-0570</b>                         |  | Tel/Fax: <b>718-864-6325</b>             |  | Soil Gas                                  |  | Job / SDG No.:                    |  |
| FAX:   |  | Analysis Turnaround Time                 |  | Sub-slab                                  |  | (See below for Add'l Items)       |  |
| Project Name: <b>Elton Gray (Malrose C. Field)</b> |  | Standard (Specific): <b>X</b>            |  | Indoor Air/Ambient Air                    |  | Sample Specific Notes:            |  |
| Site/Location: <b>Barnes, NY</b>                   |  | Rush (Specify):                          |  | Sample Type                               |  | ONLY RAW FOR 2 HRS                |  |
| PO # <b>11901-0030</b>                             |  | Time Start                               |  | Other (Please specify in notes section)   |  |                                   |  |
| Sample Identification                              |  | Time Stop                                |  | EPA 15/16                                 |  |                                   |  |
| MP-5-20181120                                      |  | 1450                                     |  | ASTM D-1946                               |  |                                   |  |
|  |  | 1256                                     |  | EPA 25C                                   |  |                                   |  |
|  |  | 1450                                     |  | EPA 3C                                    |  |                                   |  |
|  |  |  |  | TO-15 SIM                                 |  |                                   |  |
|  |  |  |  | TO-14/15 (Standard / Low Level)           |  |                                   |  |
|  |  |  |  | Canister ID                               |  |                                   |  |
|  |  |  |  | Flow Controller ID                        |  |                                   |  |
|  |  |  |  | Canister Vacuum In Field, 'Hg (Start)     |  |                                   |  |
|  |  |  |  | Canister Vacuum In Field, 'Hg (Stop)      |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Pressure (inches of Hg)                   |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |
|  |  |  |  | Temperature (Fahrenheit)                  |  |                                   |  |
|  |  |  |  | Start Interior                            |  |                                   |  |
|  |  |  |  | Stop Ambient                              |  |                                   |  |

## Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-46353-1  
SDG Number: 200-46353-1

**Login Number: 46353**  
**List Number: 1**  
**Creator: Johnson, Eleanor E**

**List Source: TestAmerica Burlington**

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.           | True   | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.   | True   | Not present   |
| Sample custody seals, if present, are intact.   | True   |   |
| The cooler or samples do not appear to have been compromised or tampered with.                | True   |   |
| Samples were received on ice.   | N/A    | Thermal preservation not required.                      |
| Cooler Temperature is acceptable.   | True   |   |
| Cooler Temperature is recorded.   | N/A    | Thermal preservation not required.                      |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| Is the Field Sampler's name present on COC?   | True   | VC  |
| There are no discrepancies between the containers received and the COC.                       | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                 | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | N/A    |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs              | True   |   |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ( $1/4''$ ). | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    | No analysis requiring residual chlorine check assigned. |

**Appendix B**  
**Case Narrative**



## CASE NARRATIVE

Client: AKRF Inc

Project: Elton Crossing

Report Number: 200-46353-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 11/23/2018; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that sample AA-1\_20181120 (200-46353-1) was received at an elevated residual vacuum level, while samples MP-4\_20181120 (200-46353-10) and MP-5\_20181119 (200-46353-11) were found to be received at ambient pressure. The associated flow controllers were evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate.

During the canister pressure check performed upon receipt, it was observed that sample MP-1\_20181120 (200-46353-7) was received at an elevated residual vacuum level. The associated flow controller was evaluated upon receipt and was found to be outside the set flow and possible clogged.

### VOLATILE ORGANIC COMPOUNDS

Samples AA-1\_20181120 (200-46353-1), IA-1\_20181120 (200-46353-2), IA-2\_20181120 (200-46353-3), IA-3\_20181120 (200-46353-4), IA-4\_20181120 (200-46353-5), IA-5\_20181120 (200-46353-6), MP-1\_20181120 (200-46353-7), MP-2\_20181120 (200-46353-8), MP-3\_20181120 (200-46353-9), MP-4\_20181120 (200-46353-10) and MP-5\_20181119 (200-46353-11) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/06/2018 and 12/07/2018.

Samples IA-1\_20181120 (200-46353-2)[10X], IA-5\_20181120 (200-46353-6)[4X], MP-1\_20181120 (200-46353-7)[50X] and MP-2\_20181120 (200-46353-8)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MP-1\_20181120 (200-46353-7) and MP-2\_20181120 (200-46353-8) were diluted due to the abundance of non-target analytes. A more concentrated analysis was not possible.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

*Handwritten signature and date:*  
12/12/18



**Appendix C  
Data Summary Form I's  
With Qualifications**

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   | I | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | I | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | # | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.54   | I | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.0    | I | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | # | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | # | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | # | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | # | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | # | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.25   | I | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | # | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | # | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 6.5    | I | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | # | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | # | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | # | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | # | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | # | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | # | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | # | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.26   | I | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | # | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.83   | I | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | # | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | # | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | # | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | # | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.25   | I | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.036  | I | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | # | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.36   | I | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | # | 0.20  |

*John*  
12/20/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q    | RL    |
|-------------|--|------------------|--------|------|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | J    | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U UJ | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U UJ | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U UJ | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U UJ | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U UJ | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U UJ | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U UJ | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.80   | J    | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U UJ | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U UJ | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U UJ | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U UJ | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U UJ | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U UJ | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U UJ | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U UJ | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U UJ | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U UJ | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U UJ | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U UJ | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U UJ | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U UJ | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U UJ | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U UJ | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U UJ | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U UJ | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U UJ | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U UJ | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U UJ | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U UJ | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U UJ | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U UJ | 0.20  |

*John*  
12/20/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q                      | RL   |  |
|----------|------------------------|------------------|--------|------------------------|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | <del>U</del> <i>VJ</i> | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | <del>U</del> <i>VJ</i> | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | <del>U</del> <i>VJ</i> | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | <del>U</del> <i>VJ</i> | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | <del>U</del> <i>VJ</i> | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | <del>U</del> <i>VJ</i> | 0.50 |  |

*[Signature]*  
12/20/18



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1 20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    | J | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | J | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | J | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    | J | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 4.8    | J | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | J | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | J | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | J | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | J | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | J | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.4    | J | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | J | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | J | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 16     | J | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | J | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | J | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | J | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | J | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | J | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | J | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | J | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 0.93   | J | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | J | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.4    | J | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | J | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | J | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | J | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | J | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.87   | J | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.23   | J | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | J | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.1    | J | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | J | 0.81 |

*John P*  
12/20/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.84   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.0    | U | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

*Jan*  
12/12/2018



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: AA-1\_20181120 Lab Sample ID: 200-46353-1  
 Matrix: Air Lab File ID: 200-33531-017.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 16:27  
 Sample wt/vol: 326(mL) Date Analyzed: 12/06/2018 03:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q                      | RL  |
|----------|------------------------|------------------|--------|------------------------|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | <del>U</del> <i>UJ</i> | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | <del>U</del> <i>UJ</i> | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | <del>U</del> <i>UJ</i> | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | <del>U</del> <i>UJ</i> | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | <del>U</del> <i>UJ</i> | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | <del>U</del> <i>UJ</i> | 2.6 |

*Jan*  
*12/20/18*

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1 *110*  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT                             | Q | RL    |
|-----------|----------------------------------|------------------|------------------------------------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.53                               |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50                               | U | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20                               | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.52                               |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.2                                |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078                              | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20                               | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20                               | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50                               | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20                               | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22                               |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20                               | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035                              | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | <i>130</i> <del>200</del> <i>D</i> |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0                                | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50                               | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50                               | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50                               | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0                                | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20                               | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20                               | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.23                               |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20                               | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 0.91                               |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050                              | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.80                               |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0                                | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20                               | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.22                               |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.058                              |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20                               | U | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.30                               |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20                               | U | 0.20  |

*SA 12/12/18*

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.74   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 2.0    |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 11     |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 3.7    |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.24   |   | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1 210  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT        | Q            | RL   |
|-----------|----------------------------------|------------------|---------------|--------------|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.6           |              | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8           | U            | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4           | U            | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1           |              | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1           |              | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20          | U            | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44          | U            | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78          | U            | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3           | U            | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87          | U            | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2           |              | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5           | U            | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14          | U            | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | <del>12</del> | <del>U</del> | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12            | U            | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6           | U            | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6           | U            | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7           | U            | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15            | U            | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72          | U            | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79          | U            | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 0.81          |              | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81          | U            | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.7           |              | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20          | U            | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 3.9           |              | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15            | U            | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1           | U            | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.76          |              | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.37          |              | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93          | U            | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.96          |              | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81          | U            | 0.81 |

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12/11/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1\_20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 2.8    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 8.7    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 46     |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 16     |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 1.0    |   | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.96   |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-1 20181120 Lab Sample ID: 200-46353-2  
 Matrix: Air Lab File ID: 200-33531-018.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:44  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 04:21  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|------------------------|------------------|--------|---|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.57   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.55   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.3    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.27   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 5.7    |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.42   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.1    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.30   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.070  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.32   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.39   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   | U | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.93   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 2.0    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.5    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 13     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 1.5    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 6.2    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.0    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.44   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.5    |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.2    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   | U | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.5    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-2\_20181120 Lab Sample ID: 200-46353-3  
 Matrix: Air Lab File ID: 200-33531-019.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 05:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3 20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.66   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.4    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 9.2    |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.47   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.8    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.35   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.053  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.22   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.32   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.90   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.68   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.27   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.4    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.7    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 22     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 1.7    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 5.2    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.2    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.34   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.0    |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.0    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3 20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.82   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.4    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.86   |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 3.0    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 1.2    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-3\_20181120 Lab Sample ID: 200-46353-4  
 Matrix: Air Lab File ID: 200-33531-020.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4 20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 5.5    |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 4.0    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 11     |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.77   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.4    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.28   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.046  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.30   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.21   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.92   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.20   | U | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.50   | U | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.20   | U | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |
|----------|------------------------|------------------|--------|---|------|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 11     |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 9.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.2    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 26     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 2.7    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 4.0    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.95   |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.29   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.97   |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.87   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.5    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.87   | U | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 2.2    | U | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.87   | U | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-4\_20181120 Lab Sample ID: 200-46353-5  
 Matrix: Air Lab File ID: 200-33531-021.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:01  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 06:51  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|------------------------|------------------|--------|---|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1 *4*  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT             | Q              | RL    |
|-----------|----------------------------------|------------------|--------------------|----------------|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.51               |                | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50               | U              | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20               | U              | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.62               |                | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.4                |                | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078              | U              | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20               | U              | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20               | U              | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50               | U              | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20               | U              | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.22               |                | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20               | U              | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035              | U              | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | <del>120</del> 100 | <del>E</del> D | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0                | U              | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50               | U              | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50               | U              | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50               | U              | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0                | U              | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20               | U              | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20               | U              | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.38               |                | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20               | U              | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 3.5                |                | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050              | U              | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20               | U              | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0                | U              | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20               | U              | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.39               |                | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.061              |                | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20               | U              | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.31               |                | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20               | U              | 0.20  |

*Signature*  
12/21/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5 20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.20   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.58   |   | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 0.78   |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.20   | U | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.3    |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 6.1    |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 2.1    |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5 20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1 9.4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT                | Q              | RL   |
|-----------|----------------------------------|------------------|-----------------------|----------------|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.5                   |                | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8                   | U              | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4                   | U              | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.3                   |                | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.6                   |                | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20                  | U              | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44                  | U              | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78                  | U              | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3                   | U              | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87                  | U              | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.3                   |                | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5                   | U              | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14                  | U              | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | <del>290-240</del> 12 | <del>E</del> D | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12                    | U              | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6                   | U              | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6                   | U              | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7                   | U              | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15                    | U              | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72                  | U              | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79                  | U              | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 1.3                   |                | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81                  | U              | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10                    |                | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20                  | U              | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98                  | U              | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15                    | U              | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1                   | U              | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.3                   |                | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.39                  |                | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93                  | U              | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.98                  |                | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81                  | U              | 0.81 |

Low  
12/12/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 0.83   |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.4    |   | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 3.0    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.4    | U | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 5.5    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 26     |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 9.3    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: IA-5\_20181120 Lab Sample ID: 200-46353-6  
 Matrix: Air Lab File ID: 200-33531-022.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:58  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 07:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |  |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q   | RL  |
|-----------|----------------------------------|------------------|--------|-----|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 25     | # U | 25  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 25     | # U | 25  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 10     | # U | 10  |
| 74-87-3   | Chloromethane                    | 50.49            | 25     | # U | 25  |
| 106-97-8  | n-Butane                         | 58.12            | 25     | # U | 25  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 3.9    | # U | 3.9 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 10     | # U | 10  |
| 74-83-9   | Bromomethane                     | 94.94            | 10     | # U | 10  |
| 75-00-3   | Chloroethane                     | 64.52            | 25     | # U | 25  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 10     | # U | 10  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 10     | # U | 10  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 10     | # U | 10  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 1.8    | # U | 1.8 |
| 67-64-1   | Acetone                          | 58.08            | 250    | # U | 250 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 250    | # U | 250 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 25     | # U | 25  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 25     | # U | 25  |
| 75-09-2   | Methylene Chloride               | 84.93            | 25     | # U | 25  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 250    | # U | 250 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 10     | # U | 10  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 10     | # U | 10  |
| 110-54-3  | n-Hexane                         | 86.17            | 10     | # U | 10  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 10     | # U | 10  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 25     | # U | 25  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 2.5    | # U | 2.5 |
| 67-66-3   | Chloroform                       | 119.38           | 62     | # U | 10  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 250    | # U | 250 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 10     | # U | 10  |
| 110-82-7  | Cyclohexane                      | 84.16            | 10     | # U | 10  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 1.8    | # U | 1.8 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 10     | # U | 10  |
| 71-43-2   | Benzene                          | 78.11            | 10     | # U | 10  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 10     | # U | 10  |

*John*  
12/12/18



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1 20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 10     | U | 10  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 1.8    | U | 1.8 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 25     | U | 25  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 10     | U | 10  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 250    | U | 250 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 10     | U | 10  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 10     | U | 10  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 25     | U | 25  |
| 108-88-3    | Toluene  | 92.14            | 10     | U | 10  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 10     | U | 10  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 10     | U | 10  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 10     | U | 10  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 25     | U | 25  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 10     | U | 10  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 10     | U | 10  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 10     | U | 10  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 10     | U | 10  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 25     | U | 25  |
| 95-47-6     | o-Xylene   | 106.17           | 10     | U | 10  |
| 100-42-5    | Styrene  | 104.15           | 10     | U | 10  |
| 75-25-2     | Bromoform  | 252.75           | 10     | U | 10  |
| 98-82-8     | Cumene   | 120.19           | 10     | U | 10  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 10     | U | 10  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 10     | U | 10  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 10     | U | 10  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 10     | U | 10  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 10     | U | 10  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 10     | U | 10  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 10     | U | 10  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 10     | U | 10  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 10     | U | 10  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 10     | U | 10  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 10     | U | 10  |

*Jan*  
12/20/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1 20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL |  |
|----------|------------------------|------------------|--------|---|----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 10     | U | 10 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 10     | U | 10 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 10     | U | 10 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 25     | U | 25 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 10     | U | 10 |  |
| 91-20-3  | Naphthalene            | 128.17           | 25     | U | 25 |  |

JON  
 12/20/18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 120    | U | 120 |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 88     | U | 88  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 70     | U | 70  |
| 74-87-3   | Chloromethane                    | 50.49            | 52     | # | 52  |
| 106-97-8  | n-Butane                         | 58.12            | 59     | # | 59  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 10     | # | 10  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 22     | # | 22  |
| 74-83-9   | Bromomethane                     | 94.94            | 39     | # | 39  |
| 75-00-3   | Chloroethane                     | 64.52            | 66     | # | 66  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 44     | # | 44  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 56     | # | 56  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 77     | U | 77  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 7.0    | # | 7.0 |
| 67-64-1   | Acetone                          | 58.08            | 590    | # | 590 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 610    | # | 610 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 78     | # | 78  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 78     | # | 78  |
| 75-09-2   | Methylene Chloride               | 84.93            | 87     | # | 87  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 760    | # | 760 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 36     | # | 36  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 40     | # | 40  |
| 110-54-3  | n-Hexane                         | 86.17            | 35     | # | 35  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 40     | # | 40  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 74     | # | 74  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 10     | # | 10  |
| 67-66-3   | Chloroform                       | 119.38           | 300    | # | 49  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 740    | U | 740 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 55     | U | 55  |
| 110-82-7  | Cyclohexane                      | 84.16            | 34     | # | 34  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 11     | # | 11  |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 47     | # | 47  |
| 71-43-2   | Benzene                          | 78.11            | 32     | # | 32  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 40     | U | 40  |

*for  
12/20/18*

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 41     | U | 41  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 9.4    | U | 9.4 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 100    | U | 100 |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 46     | U | 46  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 900    | U | 900 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 67     | U | 67  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 45     | U | 45  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 100    | U | 100 |
| 108-88-3    | Toluene  | 92.14            | 38     | U | 38  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 45     | U | 45  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 55     | U | 55  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 68     | U | 68  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 100    | U | 100 |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 85     | U | 85  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 77     | U | 77  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 46     | U | 46  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 43     | U | 43  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 110    | U | 110 |
| 95-47-6     | o-Xylene   | 106.17           | 43     | U | 43  |
| 100-42-5    | Styrene  | 104.15           | 43     | U | 43  |
| 75-25-2     | Bromoform  | 252.75           | 100    | U | 100 |
| 98-82-8     | Cumene   | 120.19           | 49     | U | 49  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 69     | U | 69  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 49     | U | 49  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 49     | U | 49  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 49     | U | 49  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 52     | U | 52  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 55     | U | 55  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 49     | U | 49  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 55     | U | 55  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 55     | U | 55  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 60     | U | 60  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 60     | U | 60  |

*12/11/18*

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-1\_20181120 Lab Sample ID: 200-46353-7  
 Matrix: Air Lab File ID: 200-33531-023.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 15:15  
 Sample wt/vol: 22 (mL) Date Analyzed: 12/06/2018 08:32  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q            | RL  |
|----------|------------------------|------------------|--------|--------------|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 52     | <del>U</del> | 52  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 55     | <del>U</del> | 55  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 60     | <del>U</del> | 60  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 190    | <del>U</del> | 190 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 110    | <del>U</del> | 110 |
| 91-20-3  | Naphthalene            | 128.17           | 130    | <del>U</del> | 130 |

*for*  
*12/06/18*

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 10     | U | 10   |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 10     | U | 10   |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 4.0    | U | 4.0  |
| 74-87-3   | Chloromethane                    | 50.49            | 10     | U | 10   |
| 106-97-8  | n-Butane                         | 58.12            | 10     | U | 10   |
| 75-01-4   | Vinyl chloride                   | 62.50            | 1.6    | U | 1.6  |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 4.0    | U | 4.0  |
| 74-83-9   | Bromomethane                     | 94.94            | 4.0    | U | 4.0  |
| 75-00-3   | Chloroethane                     | 64.52            | 10     | U | 10   |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 4.0    | U | 4.0  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 4.0    | U | 4.0  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 4.0    | U | 4.0  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.70   | U | 0.70 |
| 67-64-1   | Acetone                          | 58.08            | 100    | U | 100  |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 100    | U | 100  |
| 75-15-0   | Carbon disulfide                 | 76.14            | 10     | U | 10   |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 10     | U | 10   |
| 75-09-2   | Methylene Chloride               | 84.93            | 10     | U | 10   |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 100    | U | 100  |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 4.0    | U | 4.0  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 4.0    | U | 4.0  |
| 110-54-3  | n-Hexane                         | 86.17            | 4.0    | U | 4.0  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 4.0    | U | 4.0  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 10     | U | 10   |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 1.0    | U | 1.0  |
| 67-66-3   | Chloroform                       | 119.38           | 4.0    | U | 4.0  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 100    | U | 100  |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 4.0    | U | 4.0  |
| 110-82-7  | Cyclohexane                      | 84.16            | 4.0    | U | 4.0  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.70   | U | 0.70 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 4.0    | U | 4.0  |
| 71-43-2   | Benzene                          | 78.11            | 4.0    | U | 4.0  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 4.0    | U | 4.0  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2 20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24(mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 4.2    |   | 4.0  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.70   | U | 0.70 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 10     | U | 10   |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 4.0    | U | 4.0  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 100    | U | 100  |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 4.0    | U | 4.0  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 4.0    | U | 4.0  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 10     | U | 10   |
| 108-88-3    | Toluene  | 92.14            | 4.0    | U | 4.0  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 4.0    | U | 4.0  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 4.0    | U | 4.0  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 4.0    | U | 4.0  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 10     | U | 10   |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 4.0    | U | 4.0  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 4.0    | U | 4.0  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 4.0    | U | 4.0  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 4.0    | U | 4.0  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 10     | U | 10   |
| 95-47-6     | o-Xylene   | 106.17           | 4.0    | U | 4.0  |
| 100-42-5    | Styrene  | 104.15           | 4.0    | U | 4.0  |
| 75-25-2     | Bromoform  | 252.75           | 4.0    | U | 4.0  |
| 98-82-8     | Cumene   | 120.19           | 4.0    | U | 4.0  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 4.0    | U | 4.0  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 4.0    | U | 4.0  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 4.0    | U | 4.0  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 4.0    | U | 4.0  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 4.0    | U | 4.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 4.0    | U | 4.0  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 4.0    | U | 4.0  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 4.0    | U | 4.0  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 4.0    | U | 4.0  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 4.0    | U | 4.0  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 4.0    | U | 4.0  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2 20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |  |
|----------|------------------------|------------------|--------|---|-----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 4.0    | U | 4.0 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 4.0    | U | 4.0 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 4.0    | U | 4.0 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 10     | U | 10  |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 4.0    | U | 4.0 |  |
| 91-20-3  | Naphthalene            | 128.17           | 10     | U | 10  |  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24(mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-----------|----------------------------------|------------------|--------|---|-----|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 49     | U | 49  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 35     | U | 35  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 28     | U | 28  |
| 74-87-3   | Chloromethane                    | 50.49            | 21     | U | 21  |
| 106-97-8  | n-Butane                         | 58.12            | 24     | U | 24  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 4.0    | U | 4.0 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 8.8    | U | 8.8 |
| 74-83-9   | Bromomethane                     | 94.94            | 16     | U | 16  |
| 75-00-3   | Chloroethane                     | 64.52            | 26     | U | 26  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 17     | U | 17  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 22     | U | 22  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 31     | U | 31  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 2.8    | U | 2.8 |
| 67-64-1   | Acetone                          | 58.08            | 240    | U | 240 |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 250    | U | 250 |
| 75-15-0   | Carbon disulfide                 | 76.14            | 31     | U | 31  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 31     | U | 31  |
| 75-09-2   | Methylene Chloride               | 84.93            | 35     | U | 35  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 300    | U | 300 |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 14     | U | 14  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 16     | U | 16  |
| 110-54-3  | n-Hexane                         | 86.17            | 14     | U | 14  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 16     | U | 16  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 29     | U | 29  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 4.0    | U | 4.0 |
| 67-66-3   | Chloroform                       | 119.38           | 20     | U | 20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 290    | U | 290 |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 22     | U | 22  |
| 110-82-7  | Cyclohexane                      | 84.16            | 14     | U | 14  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 4.4    | U | 4.4 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 19     | U | 19  |
| 71-43-2   | Benzene                          | 78.11            | 13     | U | 13  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 16     | U | 16  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL  |
|-------------|--|------------------|--------|---|-----|
| 142-82-5    | n-Heptane  | 100.21           | 17     |   | 16  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 3.8    | U | 3.8 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 41     | U | 41  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 18     | U | 18  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 360    | U | 360 |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 27     | U | 27  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 18     | U | 18  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 41     | U | 41  |
| 108-88-3    | Toluene  | 92.14            | 15     | U | 15  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 18     | U | 18  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 22     | U | 22  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 27     | U | 27  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 41     | U | 41  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 34     | U | 34  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 31     | U | 31  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 18     | U | 18  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 17     | U | 17  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 43     | U | 43  |
| 95-47-6     | o-Xylene   | 106.17           | 17     | U | 17  |
| 100-42-5    | Styrene  | 104.15           | 17     | U | 17  |
| 75-25-2     | Bromoform  | 252.75           | 41     | U | 41  |
| 98-82-8     | Cumene   | 120.19           | 20     | U | 20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 27     | U | 27  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 20     | U | 20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 20     | U | 20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 20     | U | 20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 21     | U | 21  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 22     | U | 22  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 20     | U | 20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 22     | U | 22  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 22     | U | 22  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 24     | U | 24  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 24     | U | 24  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-2\_20181120 Lab Sample ID: 200-46353-8  
 Matrix: Air Lab File ID: 200-33531-024.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 12:59  
 Sample wt/vol: 24 (mL) Date Analyzed: 12/06/2018 09:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL |  |
|----------|------------------------|------------------|--------|---|----|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 21     | U | 21 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 22     | U | 22 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 24     | U | 24 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 74     | U | 74 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 43     | U | 43 |  |
| 91-20-3  | Naphthalene            | 128.17           | 52     | U | 52 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.86   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.76   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.63   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.2    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 2.5    |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 34     |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 0.50   | U | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.99   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 1.6    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.99   |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.80   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.053  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.24   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 4.4    |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.23   |   | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 3.6    |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 1.7    |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 1.3    |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.38   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 1.1    |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.47   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.40   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3 20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3 20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 4.3    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 2.7    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.3    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 14     |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 82     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.6    | U | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 3.5    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 4.6    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 4.8    |   | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 2.7    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.33   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 0.76   |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 18     |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 1.2    |   | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 14     |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 12     |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 5.5    |   | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.6    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 5.0    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 2.0    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 2.0    |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-3\_20181120 Lab Sample ID: 200-46353-9  
 Matrix: Air Lab File ID: 200-33531-025.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 13:00  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 10:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137819 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|------------------------|------------------|--------|---|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4 20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.58   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.53   |   | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 0.54   |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 3.6    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.31   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 28     |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 1.2    |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 1.0    |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 2.5    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.20   | U | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.52   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.079  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.31   |   | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.48   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4 20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 1.7    |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.50   | U | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 2.2    |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.32   |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.78   |   | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.28   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.97   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.41   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.29   |   | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4 20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |  |
|----------|------------------------|------------------|--------|---|------|--|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |  |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |  |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |  |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |  |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |  |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4 20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200(mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 2.9    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.9    |   | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 8.6    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 1.7    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 66     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 3.7    |   | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 3.6    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 7.5    |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 0.98   | U | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.8    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.50   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 1.4    |   | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.5    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 6.8    |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 2.0    | U | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 8.2    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 2.2    |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 3.2    |   | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.2    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 4.2    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 1.8    |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 1.4    |   | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-4\_20181120 Lab Sample ID: 200-46353-10  
 Matrix: Air Lab File ID: 200-33558-012.D  
 Analysis Method: TO-15 Date Collected: 11/20/2018 07:45  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/06/2018 23:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|------------------------|------------------|--------|---|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-----------|----------------------------------|------------------|--------|---|-------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 0.62   |   | 0.50  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 0.50   | U | 0.50  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 0.20   | U | 0.20  |
| 74-87-3   | Chloromethane                    | 50.49            | 1.1    |   | 0.50  |
| 106-97-8  | n-Butane                         | 58.12            | 2.1    |   | 0.50  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.078  | U | 0.078 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.20   | U | 0.20  |
| 74-83-9   | Bromomethane                     | 94.94            | 0.20   | U | 0.20  |
| 75-00-3   | Chloroethane                     | 64.52            | 0.50   | U | 0.50  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.20   | U | 0.20  |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 0.39   |   | 0.20  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 0.20   | U | 0.20  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.035  | U | 0.035 |
| 67-64-1   | Acetone                          | 58.08            | 17     |   | 5.0   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 5.0    | U | 5.0   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 2.4    |   | 0.50  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 0.50   | U | 0.50  |
| 75-09-2   | Methylene Chloride               | 84.93            | 0.50   | U | 0.50  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 5.0    | U | 5.0   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.20   | U | 0.20  |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.20   | U | 0.20  |
| 110-54-3  | n-Hexane                         | 86.17            | 0.43   |   | 0.20  |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 6.9    |   | 0.50  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.050  | U | 0.050 |
| 67-66-3   | Chloroform                       | 119.38           | 0.21   |   | 0.20  |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 5.0    | U | 5.0   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 0.20   | U | 0.20  |
| 110-82-7  | Cyclohexane                      | 84.16            | 0.32   |   | 0.20  |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.094  |   | 0.035 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.20   | U | 0.20  |
| 71-43-2   | Benzene                          | 78.11            | 0.40   |   | 0.20  |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.20   | U | 0.20  |



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200(mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL    |
|-------------|--|------------------|--------|---|-------|
| 142-82-5    | n-Heptane  | 100.21           | 0.61   |   | 0.20  |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.035  | U | 0.035 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 0.50   | U | 0.50  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.20   | U | 0.20  |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 5.0    | U | 5.0   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 0.20   | U | 0.20  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.20   | U | 0.20  |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 0.86   |   | 0.50  |
| 108-88-3    | Toluene  | 92.14            | 1.1    |   | 0.20  |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.20   | U | 0.20  |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 0.20   | U | 0.20  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 0.36   |   | 0.20  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 0.50   | U | 0.50  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 0.20   | U | 0.20  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 0.20   | U | 0.20  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.20   | U | 0.20  |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 0.34   |   | 0.20  |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 0.76   |   | 0.50  |
| 95-47-6     | o-Xylene   | 106.17           | 0.22   |   | 0.20  |
| 100-42-5    | Styrene  | 104.15           | 0.20   | U | 0.20  |
| 75-25-2     | Bromoform  | 252.75           | 0.20   | U | 0.20  |
| 98-82-8     | Cumene   | 120.19           | 0.20   | U | 0.20  |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 0.20   | U | 0.20  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.20   | U | 0.20  |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.20   | U | 0.20  |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 0.20   | U | 0.20  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 0.20   | U | 0.20  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.20   | U | 0.20  |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 0.20   | U | 0.20  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 0.20   | U | 0.20  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 0.20   | U | 0.20  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ppb v/v

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL   |
|----------|------------------------|------------------|--------|---|------|
| 100-44-7 | Benzyl chloride        | 126.58           | 0.20   | U | 0.20 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 0.20   | U | 0.20 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 0.20   | U | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 0.50   | U | 0.50 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 0.20   | U | 0.20 |
| 91-20-3  | Naphthalene            | 128.17           | 0.50   | U | 0.50 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.   | COMPOUND NAME                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-----------|----------------------------------|------------------|--------|---|------|
| 75-71-8   | Dichlorodifluoromethane          | 120.91           | 3.1    |   | 2.5  |
| 75-45-6   | Chlorodifluoromethane            | 86.47            | 1.8    | U | 1.8  |
| 76-14-2   | 1,2-Dichlorotetrafluoroethane    | 170.92           | 1.4    | U | 1.4  |
| 74-87-3   | Chloromethane                    | 50.49            | 2.3    |   | 1.0  |
| 106-97-8  | n-Butane                         | 58.12            | 5.1    |   | 1.2  |
| 75-01-4   | Vinyl chloride                   | 62.50            | 0.20   | U | 0.20 |
| 106-99-0  | 1,3-Butadiene                    | 54.09            | 0.44   | U | 0.44 |
| 74-83-9   | Bromomethane                     | 94.94            | 0.78   | U | 0.78 |
| 75-00-3   | Chloroethane                     | 64.52            | 1.3    | U | 1.3  |
| 593-60-2  | Bromoethene (Vinyl Bromide)      | 106.96           | 0.87   | U | 0.87 |
| 75-69-4   | Trichlorofluoromethane           | 137.37           | 2.2    |   | 1.1  |
| 76-13-1   | 1,1,2-Trichlorotrifluoroethane   | 187.38           | 1.5    | U | 1.5  |
| 75-35-4   | 1,1-Dichloroethene               | 96.94            | 0.14   | U | 0.14 |
| 67-64-1   | Acetone                          | 58.08            | 41     |   | 12   |
| 67-63-0   | Isopropyl alcohol                | 60.10            | 12     | U | 12   |
| 75-15-0   | Carbon disulfide                 | 76.14            | 7.5    |   | 1.6  |
| 107-05-1  | 3-Chloropropene                  | 76.53            | 1.6    | U | 1.6  |
| 75-09-2   | Methylene Chloride               | 84.93            | 1.7    | U | 1.7  |
| 75-65-0   | tert-Butyl alcohol               | 74.12            | 15     | U | 15   |
| 1634-04-4 | Methyl tert-butyl ether          | 88.15            | 0.72   | U | 0.72 |
| 156-60-5  | trans-1,2-Dichloroethene         | 96.94            | 0.79   | U | 0.79 |
| 110-54-3  | n-Hexane                         | 86.17            | 1.5    |   | 0.70 |
| 75-34-3   | 1,1-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |
| 78-93-3   | Methyl Ethyl Ketone (2-Butanone) | 72.11            | 20     |   | 1.5  |
| 156-59-2  | cis-1,2-Dichloroethene           | 96.94            | 0.20   | U | 0.20 |
| 67-66-3   | Chloroform                       | 119.38           | 1.0    |   | 0.98 |
| 109-99-9  | Tetrahydrofuran                  | 72.11            | 15     | U | 15   |
| 71-55-6   | 1,1,1-Trichloroethane            | 133.41           | 1.1    | U | 1.1  |
| 110-82-7  | Cyclohexane                      | 84.16            | 1.1    |   | 0.69 |
| 56-23-5   | Carbon tetrachloride             | 153.81           | 0.59   |   | 0.22 |
| 540-84-1  | 2,2,4-Trimethylpentane           | 114.23           | 0.93   | U | 0.93 |
| 71-43-2   | Benzene                          | 78.11            | 1.3    |   | 0.64 |
| 107-06-2  | 1,2-Dichloroethane               | 98.96            | 0.81   | U | 0.81 |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.     | COMPOUND NAME                                    | MOLECULAR WEIGHT | RESULT | Q | RL   |
|-------------|--|------------------|--------|---|------|
| 142-82-5    | n-Heptane  | 100.21           | 2.5    |   | 0.82 |
| 79-01-6     | Trichloroethene                                  | 131.39           | 0.19   | U | 0.19 |
| 80-62-6     | Methyl methacrylate                              | 100.12           | 2.0    | U | 2.0  |
| 78-87-5     | 1,2-Dichloropropane                              | 112.99           | 0.92   | U | 0.92 |
| 123-91-1    | 1,4-Dioxane                                      | 88.11            | 18     | U | 18   |
| 75-27-4     | Bromodichloromethane                             | 163.83           | 1.3    | U | 1.3  |
| 10061-01-5  | cis-1,3-Dichloropropene                          | 110.97           | 0.91   | U | 0.91 |
| 108-10-1    | 4-Methyl-2-pentanone<br>(Methyl isobutyl ketone) | 100.16           | 3.5    |   | 2.0  |
| 108-88-3    | Toluene  | 92.14            | 4.3    |   | 0.75 |
| 10061-02-6  | trans-1,3-Dichloropropene                        | 110.97           | 0.91   | U | 0.91 |
| 79-00-5     | 1,1,2-Trichloroethane                            | 133.41           | 1.1    | U | 1.1  |
| 127-18-4    | Tetrachloroethene                                | 165.83           | 2.4    |   | 1.4  |
| 591-78-6    | Methyl Butyl Ketone<br>(2-Hexanone)              | 100.20           | 2.0    | U | 2.0  |
| 124-48-1    | Dibromochloromethane                             | 208.29           | 1.7    | U | 1.7  |
| 106-93-4    | 1,2-Dibromoethane                                | 187.87           | 1.5    | U | 1.5  |
| 108-90-7    | Chlorobenzene                                    | 112.56           | 0.92   | U | 0.92 |
| 100-41-4    | Ethylbenzene                                     | 106.17           | 1.5    |   | 0.87 |
| 179601-23-1 | m,p-Xylene                                       | 106.17           | 3.3    |   | 2.2  |
| 95-47-6     | o-Xylene   | 106.17           | 0.94   |   | 0.87 |
| 100-42-5    | Styrene  | 104.15           | 0.85   | U | 0.85 |
| 75-25-2     | Bromoform  | 252.75           | 2.1    | U | 2.1  |
| 98-82-8     | Cumene   | 120.19           | 0.98   | U | 0.98 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane                        | 167.85           | 1.4    | U | 1.4  |
| 103-65-1    | n-Propylbenzene                                  | 120.19           | 0.98   | U | 0.98 |
| 622-96-8    | 4-Ethyltoluene                                   | 120.20           | 0.98   | U | 0.98 |
| 108-67-8    | 1,3,5-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 95-49-8     | 2-Chlorotoluene                                  | 126.59           | 1.0    | U | 1.0  |
| 98-06-6     | tert-Butylbenzene                                | 134.22           | 1.1    | U | 1.1  |
| 95-63-6     | 1,2,4-Trimethylbenzene                           | 120.20           | 0.98   | U | 0.98 |
| 135-98-8    | sec-Butylbenzene                                 | 134.22           | 1.1    | U | 1.1  |
| 99-87-6     | 4-Isopropyltoluene                               | 134.22           | 1.1    | U | 1.1  |
| 541-73-1    | 1,3-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |
| 106-46-7    | 1,4-Dichlorobenzene                              | 147.00           | 1.2    | U | 1.2  |

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-46353-1  
 SDG No.: 200-46353-1  
 Client Sample ID: MP-5\_20181119 Lab Sample ID: 200-46353-11  
 Matrix: Air Lab File ID: 200-33558-013.D  
 Analysis Method: TO-15 Date Collected: 11/19/2018 14:50  
 Sample wt/vol: 200 (mL) Date Analyzed: 12/07/2018 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 137867 Units: ug/m3

| CAS NO.  | COMPOUND NAME          | MOLECULAR WEIGHT | RESULT | Q | RL  |
|----------|------------------------|------------------|--------|---|-----|
| 100-44-7 | Benzyl chloride        | 126.58           | 1.0    | U | 1.0 |
| 104-51-8 | n-Butylbenzene         | 134.22           | 1.1    | U | 1.1 |
| 95-50-1  | 1,2-Dichlorobenzene    | 147.00           | 1.2    | U | 1.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 181.45           | 3.7    | U | 3.7 |
| 87-68-3  | Hexachlorobutadiene    | 260.76           | 2.1    | U | 2.1 |
| 91-20-3  | Naphthalene            | 128.17           | 2.6    | U | 2.6 |

**APPENDIX C**  
**SITE-WIDE INSPECTION LOG**

**ANNUAL SITE-WIDE INSPECTION LOG**

**NYSDEC BCP SITE NO. C203073**

**432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York**

**Overview of Annual Site-Wide Inspection requirements:**

- 1) General Site conditions at time of inspection;
- 2) Site Cover System Inspection;
- 3) Any Site activities currently being conducted;
- 4) Last SMP-related Site Activity conducted, upcoming SMP-related tasks;
- 5) Institutional Control Checklist (SMP, EWP maintained on-Site, routine SMP tasks being conducted);
- 6) Evaluation of Engineering Controls (in office); and
- 7) Site Documentation.

**1) General Site conditions at time of inspection:**

|   |                                    |
|---|------------------------------------|
| NAME: <b>VICTOR CHANG, AKRF</b>   | DATE: <b>03/21/2019</b>            |
| TIME: <b>07:30</b>  | WEATHER: <b>43 °F, CLOUDY/RAIN</b> |
| Annual Inspection or Emergency Inspection (if emergency, specify nature)?<br><b>ANNUAL INSPECTION</b> |                                    |

Notes: REDEVELOPMENT ACTIVITIES CONTINUED TO OCCUR AT THE SITE. CURRENT WORK INCLUDED GENERAL CLEANING AND CONSTRUCTION PUNCH LIST ITEMS.

**2) Site Cover System Inspection**

SITE COVER SYSTEM INSPECTION OCCURRED CONCURRENTLY WITH THE SITE-WIDE INSPECTION. NO SIGNIFICANT ISSUES WERE NOTED DURING THE INSPECTION. PLEASE REVIEW THE SITE COVER SYSTEM INSPECTION FORM (APPENDIX D) FOR SPECIFIC DETAILS ON INSPECTION LOCATIONS WITHIN THE SITE.

**3) Any SMP-related site activities currently being conducted (including active AS/SVE)**

SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) WAS CONNECTED AND PASSIVE VENTING OF SUB-SLAB SOIL VAPOR WAS OCCURRING PROPERLY. SOIL VAPOR WAS DISCHARGED VIA THE SSDS STACK ABOVE THE SITE BUILDING ROOF. THE SITE COMPOSITE COVER SYSTEM REMAINS IN-PLACE AND EFFECTIVE.

**4) Last SMP-related Site Activity conducted, next SMP-related task**

A SOIL VAPOR INTRUSION EVALUATION (SVIE) WAS PERFORMED IN NOVEMBER 2018. NO VIOLATIONS OF THE SMP WERE NOTED. PLEASE SEE THE PRR TEXT FOR FULL DETAILS. ROUTINE INSPECTION, MAINTENANCE, AND MONITORING OF THE SITE COVER

SYSTEM AND PASSIVE SSDS WILL CONTINUE TO OCCUR IN ACCORDANCE WITH THE SMP.

**5) IC Checklist (SMP, EWP maintained on-Site, routine SMP tasks being conducted)**

|                      |     |
|----------------------|-----|
| Copy of SMP on-Site? | YES |
| Copy of EWP on-Site? | YES |

*Routine SMP tasks being conducted?*

Composite cover system monitoring YES

SSDS monitoring YES

Notes: SEE PERIODIC REVIEW REPORT TEXT

**6) Evaluation of ECs**

SSDS operations summary to be provided as part of annual PRR.

Notes: SEE PERIODIC REVIEW REPORT TEXT

**7) Site documentation**

Including updates regarding new Site hazardous materials to local agencies, notification to NYSDEC regarding any changes to Site conditions/operations, annual hazardous waste tax filings, routine reporting to NYSDEC).

Notes: AN SVIE WAS CONDUCTED IN NOVEMBER 2018 IN ACCORDANCE WITH THE OCTOBER 2018 NYSDEC-APPROVED VAPOR INTRUSION ASSESSMENT WORK PLAN (VIWP) TO DETERMINE THE NEED FOR ACTIVATION OF THE PASSIVELY OPERATING SSDS. THE SVIE REPORT WAS SUBMITTED TO THE NYSDEC IN FEBRUARY 2019. THE RESULTS OF THE SVIE DETERMINED THE SSDS SYSTEM CAN REMAIN OPERATING AS A PASSIVE SYSTEM.



**APPENDIX D**  
**COMPOSITE COVER SYSTEM INSPECTION LOG AND PHOTOGRAPHIC LOG**

**SITE COMPOSITE COVER SYSTEM INSPECTION LOG**  
**NYSDEC BCP SITE NO. C203073**  
**432 East 162<sup>nd</sup> Street (899 Elton Avenue), Bronx, New York**

|   |                                    |
|---|------------------------------------|
| NAME: <b>VICTOR CHANG, AKRF</b>   | DATE: <b>03/21/2019</b>            |
| TIME: <b>07:30</b>  | WEATHER: <b>43 °F, CLOUDY/RAIN</b> |
| Routine Inspection or Emergency Inspection (if emergency, specify nature)?<br><b>ROUTINE INSPECTION</b> |                                    |

**Interior First Floor Area (Ground Level)**

Description of floor condition:

CONCRETE SLAB WAS NOTED TO BE IN GOOD CONDITION. NO SURFICIAL BREAKS OR CRACKS THAT BREACHED THE STRUCTURAL SLAB WERE NOTED. ALL SSDS MONITORING POINTS WERE IN GOOD CONDITION.

Note any changes to or any unusual conditions of Site cover system component:

NO UNUSUAL CONDITIONS TO THE SITE COVER WERE NOTED.

**Interior Courtyard**

Description of surface condition:

CONCRETE SLAB WAS NOTED TO BE IN GOOD CONDITION. NO SURFICIAL BREAKS OR CRACKS THAT BREACHED THE STRUCTURAL SLAB WERE NOTED.

Note any changes to or any unusual conditions of Site cover system component:

NO UNUSUAL CONDITIONS TO THE SITE COVER WERE NOTED.

**Interior Courtyard (Landscaped Areas)**

Description of surface condition:

PERMEABLE PAVERS AND TOPSOIL WERE NOTED TO BE IN GOOD CONDITION. NO BREACH TO THE UNDERLYING DEMARCATION BARRIER OR COMPACTED SUBGRADE WERE OBSERVED.

Note any changes to or any unusual conditions of Site cover system component:

NO UNUSUAL CONDITIONS TO THE SITE COVER WERE NOTED.

### Cellar Floor Area

Description of floor condition:

CONCRETE SLAB WAS NOTED TO BE IN GOOD CONDITION. NO BREACH TO THE STRUCTURAL SLAB INTEGRITY OR UNDERLYING VAPOR BARRIER WERE OBSERVED. NO SIGNIFICANT CRACKING OR DAMAGE OBSERVED TO CELLAR SLAB IN OTHER AREAS WERE IDENTIFIED.

Note any changes to or any unusual conditions of Site cover system component:

NO CHANGES OR UNUSUAL CONDITIONS WERE NOTED.

**Provide images to document conditions of each area and any unusual conditions.**

NO UNUSUAL CONDITIONS WERE OBSERVED. NO CORRECTIVE ACTIONS ARE RECOMMENDED.



Photograph 1: Interior parking area on the northwestern portion of the Site.



Photograph 2: Parking area in the central exterior courtyard.



Photograph 3: Landscaped area in the central exterior courtyard.



Photograph 4: Landscaped area in the central exterior courtyard.



Photograph 5: Landscaped area in the central exterior courtyard.



Photograph 6: Ground-level laundry room on the north-central portion of the Site.



Photograph 7: Ground-level building lobby on the northeastern portion of the Site.



Photograph 8: Partial cellar on the northeastern portion of the Site.

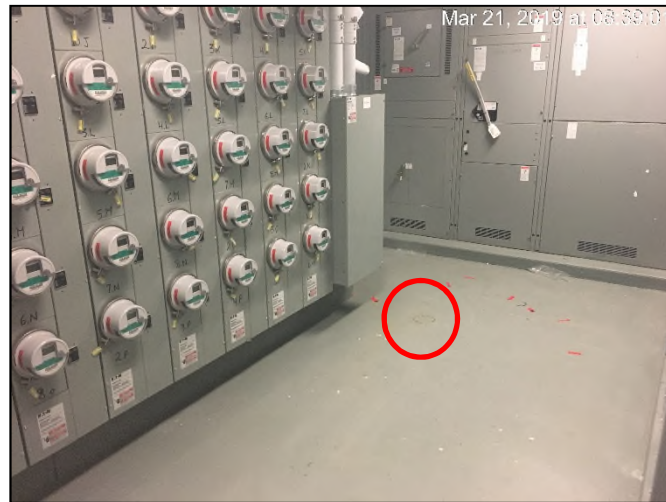




Photograph 9: Sub-slab depressurization system (SSDS) manifold in the telecommunications room in the partial cellar.



Photograph 10: Vertical riser VR-1A penetration in the telecommunications room in the partial cellar.



Photograph 11: Typical partial cellar slab in the electric room (location of vapor monitoring point MP-1).



Photograph 12: Typical vapor monitoring point (MP-1).



Photograph 13: Typical concrete slab on the ground level in the southwestern portion of the Site.



Photograph 14: Typical vapor monitoring point (MP-4).



Photograph 15: Typical concrete slab on the ground level in the eastern portion of the Site.



Photograph 16: SSDS exhaust stack with rain cap on the roof.

**APPENDIX E**  
**INSTITUTIONAL CONTROL (IC) AND ENGINEERING CONTROL (EC) CERTIFICATION**  
**FORM**





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



|  | Site Details   | Box 1   |
|--|--|---|
| <b>Site No.</b>  | <b>C203073</b>   |   |
| <b>Site Name Elton Crossing (Melrose C Family)</b>   |  |   |
| Site Address: 432 East 162nd Street (899 Elton Avenue)    Zip Code: 10451  |  |   |
| City/Town: Bronx   |  |   |
| County: Bronx  |  |   |
| Site Acreage: 0.690  |  |   |
| Site acreage per the BCA is 0.695 acres.   |  |   |
| Reporting Period: April 16, 2018 to April 16, 2019   |  |   |
|  |  | YES    NO   |
| 1.   | Is the information above correct?  | <input type="checkbox"/> <input type="checkbox"/> |
|  | If NO, include handwritten above or on a separate sheet.   |   |
| 2.   | Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?                                 | <input type="checkbox"/> <input type="checkbox"/> |
| 3.   | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?  | <input type="checkbox"/> <input type="checkbox"/> |
| 4.   | Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                         | <input type="checkbox"/> <input type="checkbox"/> |
|  | <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |   |
| 5.   | Is the site currently undergoing development?  | <input type="checkbox"/> <input type="checkbox"/> |
|  |  | <b>Box 2</b>                                      |
|  |  | YES    NO   |
| 6.   | Is the current site use consistent with the use(s) listed below?<br>Restricted-Residential, Commercial, and Industrial   | <input type="checkbox"/> <input type="checkbox"/> |
| 7.   | Are all ICs/ECs in place and functioning as designed?  | <input type="checkbox"/> <input type="checkbox"/> |
| <b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.</b> |  |   |
| <b>A Corrective Measures Work Plan must be submitted along with this form to address these issues.</b>                                   |  |   |
| Signature of Owner, Remedial Party or Designated Representative  |  | Date  |

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

|   |   |  |
|---|---|--|
| <b>SITE NO. C203073</b>   | <b>Box 3</b>                            |  |
| <b>Description of Institutional Controls</b>  |   |  |
| <u>Parcel</u>   | <u>Owner</u>                            | <u>Institutional Control</u>   |
| <b>2383-19</b>  | Elton Crossing Housing Development Fund | Ground Water Use Restriction<br>Soil Management Plan<br>Landuse Restriction<br>Site Management Plan<br>IC/EC Plan<br><br>Monitoring Plan |
| groundwater use restriction, land use restriction, site management plan, IC/EC plan, soil management plan |   |  |

|  |                            |              |
|--|----------------------------|--------------|
|  |                            | <b>Box 4</b> |
| <b>Description of Engineering Controls</b> |                            |              |
| <u>Parcel</u>                              | <u>Engineering Control</u> |              |
| <b>2383-19</b>                             | Cover System               |              |
| cover system                               |                            |              |

**Periodic Review Report (PRR) Certification Statements**

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

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES    NO  
   

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

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES    NO  
   

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

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

\_\_\_\_\_  
 Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
 Date

IC CERTIFICATIONS  
SITE NO. C203073

Box 6


**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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

I Michael Wadman at 902 Broadway, 13th Floor, New York, NY 10010  
print name print business address

am certifying as Vice President of Elton Crossing Associates, L.P. (Owner/Remedial Party) (Owner or Remedial Party)

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

  
\_\_\_\_\_  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

05/08/2019  
Date

IC/EC CERTIFICATIONS

Box 7

Signature

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

I Michelle Lapin, P.E. at AKRF Inc. at 440 Park Avenue South, 7th Floor, NY, NY 10016,  
print name print business address

I am certifying as a Owner/Remedial Party

(Owner or Remedial Party)



*Michelle Lapin*  
Signature of, for the Owner or Remedial Party,  
Rendering Certification

05/03/2019  
Date  
(Required for PE)